APPENDIX A

LABORATORY REPORTS FOR AUGUST 2009 HDOH SAMPLING EVENT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

99-193 Aiea Heights Drive, Suite 121 Aiea, HI 96701 * 808-486-5227 * Fax 808-486-2456

September 21, 2009

LABORATORY REPORT

Client:
Department of Health, HEER Office
919 Ala Moana Boulevard, Room 206
Honolulu, HI 96814
Attn: Laura Young

Work Order: HSH0123
Project Name: Kohala Sugar
Project Number: Kohala Sugar - PMA
Date Received: 08/20/09

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Analytical Testing Corporation certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

The Chain of Custody, 1 page, is included and is an integral part of this report. This entire report was reviewed and approved for release.

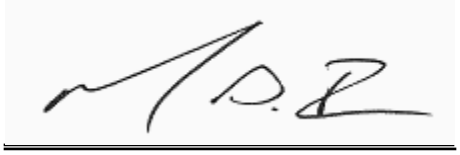
If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(808)486-5227

Samples were received into laboratory at a temperature of 22 °C.

NELAC states that samples which require thermal preservation shall be considered acceptable if the arrival temperature is within 2 degrees C of the required temperature or the method specified range. For samples with a temperature requirement of 4 degrees C, an arrival temperature from 0 degrees C to 6 degrees C meets specifications. Samples that are delivered to the laboratory on the same day that they are collected may not meet these criteria. In these cases, the samples are considered acceptable if there is evidence that the chilling process has begun, such as arrival on ice.

The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

Approved By:



Marvin D. Heskett III
Laboratory Director

NELAC Certification # E87907

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919 Ala Moana Boulevard, Room 206
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Laura Young

Work Order: HSH0123
Project: Kohala Sugar
Project Number: Kohala Sugar - PMA

Received: 08/20/09
Reported: 09/21/09 16:17

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
KPMA-DU-1	HSH0123-01	08/17/09
KPMA-DU-2	HSH0123-02	08/17/09
KPMA-DU-3	HSH0123-03	08/17/09
KPMA-DU-4	HSH0123-04	08/18/09
KPMA-DU-5	HSH0123-05	08/18/09
KPMA-DU-6	HSH0123-06	08/18/09

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Department of Health, HEER Office 919 Ala Moana Boulevard, Room 206 Honolulu, HI 96814 Laura Young	Work Order: HSH0123 Project: Kohala Sugar Project Number: Kohala Sugar - PMA	Received: 08/20/09 Reported: 09/21/09 16:17	

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	MDL	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
Sample ID: HSH0123-01 (KPMA-DU-1 - Solid/Soil)						**Sampled: 08/17/09**		**Recvd: 08/20/09 14:30**		
Organochlorine Pesticides/PCBs										
4,4'-DDD	**0.00785**		mg/kg	0.00109	0.00396	1	08/31/09 12:28	08/28/09	9H28001	SW8081A
4,4'-DDE	ND	U	"	0.000990	0.00396	"	"	"	"	"
4,4'-DDT	**0.154**		"	0.000693	0.00396	"	"	"	"	"
Aldrin	ND	U	"	0.00149	0.00396	"	"	"	"	"
alpha-BHC	ND	U	"	0.00178	0.00396	"	"	"	"	"
beta-BHC	ND	U	"	0.00168	0.00396	"	"	"	"	"
Chlordane	ND	U	"	0.0139	0.0327	"	"	"	"	"
delta-BHC	**0.0402**	R10	"	0.00158	0.00396	"	"	"	"	"
Dieldrin	ND	U	"	0.00139	0.00396	"	"	"	"	"
Endosulfan I	ND	R10, U	"	0.00149	0.00396	"	"	"	"	"
Endosulfan II	**0.00917**	R1	"	0.000792	0.00396	"	"	"	"	"
Endosulfan sulfate	**0.00607**	R10	"	0.000990	0.00396	"	"	"	"	"
Endrin	ND	U	"	0.000990	0.00396	"	"	"	"	"
Endrin aldehyde	**0.00314**	R10, J	"	0.000693	0.00396	"	"	"	"	"
Endrin ketone	ND	R10, U	"	0.00168	0.00396	"	"	"	"	"
gamma-BHC (Lindane)	ND	U	"	0.00119	0.00396	"	"	"	"	"
Heptachlor	ND	U	"	0.00139	0.00396	"	"	"	"	"
Heptachlor epoxide	ND	U	"	0.00109	0.00396	"	"	"	"	"
Methoxychlor	**0.0302**	R10	"	0.00139	0.0198	"	"	"	"	"
Toxaphene	ND	U	"	0.0495	0.0495	"	"	"	"	"
alpha-Chlordane	ND	U	"	0.00178	0.00396	"	"	"	"	"
gamma-Chlordane	**0.0365**	R1	"	0.000990	0.00396	"	"	"	"	"
Surr: Decachlorobiphenyl (45-120%)	*2240 %*	*R1, Z1*					"	"	"	"
Surr: Tetrachloro-meta-xylene (50-120%)	*91 %*						"	"	"	"
Semivolatile Organics by GC/MS										
1,2,4,5-Tetrachlorobenzene	ND	RL1,U	mg/kg	0.632	0.651	2	09/02/09 15:04	08/31/09	9H31003	SW8270C
1,2,4-Trichlorobenzene	ND	RL1,U	"	0.171	0.651	"	"	"	"	"
1,2-Dichlorobenzene	ND	RL1,U	"	0.245	0.651	"	"	"	"	"
1,3-Dichlorobenzene	ND	RL1,U	"	0.258	0.651	"	"	"	"	"
1,4-Dichlorobenzene	ND	RL1,U	"	0.254	0.651	"	"	"	"	"
1-Chloronaphthalene	ND	RL1,U	"	0.198	0.651	"	"	"	"	"
1-Methylnaphthalene	ND	RL1,U	"	0.111	0.651	"	"	"	"	"
1-Naphthylamine	ND	RL1,U	"	0.873	1.30	"	"	"	"	"
2,3,4,6-Tetrachlorophenol	ND	RL1,U	"	0.200	0.651	"	"	"	"	"
2,4,5-Trichlorophenol	ND	RL1,U	"	0.189	0.651	"	"	"	"	"
2,4,6-Trichlorophenol	ND	RL1,U	"	0.179	0.651	"	"	"	"	"
2,4-Dichlorophenol	ND	RL1,U	"	0.146	0.651	"	"	"	"	"
2,4-Dimethylphenol	ND	RL1,U	"	0.164	0.651	"	"	"	"	"
2,4-Dinitrophenol	ND	RL1,U	"	0.384	3.36	"	"	"	"	"
2,4-Dinitrotoluene	ND	RL1,U	"	0.261	0.651	"	"	"	"	"
2,6-Dichlorophenol	ND	RL1,U	"	0.160	0.651	"	"	"	"	"
2,6-Dinitrotoluene	ND	RL1,U	"	0.191	0.651	"	"	"	"	"

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919 Ala Moana Boulevard, Room 206
Honolulu, HI 96814
Laura Young

Work Order: HSH0123
Project: Kohala Sugar
Project Number: Kohala Sugar - PMA

Received: 08/20/09
Reported: 09/21/09 16:17

ANALYTICAL REPORT

Sample ID: HSH0123-01 (KPMA-DU-1 - Solid/Soil) - cont. **Sampled: 08/17/09** **Recvd: 08/20/09 14:30**

Semivolatile Organics by GC/MS - cont.

Analyte	Sample Result	Data Qualifiers	Units	MDL	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
2-Chloronaphthalene	ND	RL1,U	"	0.0691	0.651	"	"	"	"	"
2-Chlorophenol	ND	RL1,U	"	0.146	0.651	"	"	"	"	"
2-Methylnaphthalene	ND	RL1,U	"	0.173	0.651	"	"	"	"	"
2-Methylphenol (o-Cresol)	ND	RL1,U	"	0.144	0.651	"	"	"	"	"
2-Naphthylamine	ND	RL1,U	"	0.650	1.30	"	"	"	"	"
2-Nitroaniline	ND	RL1,U	"	0.246	0.651	"	"	"	"	"
2-Nitrophenol	ND	RL1,U	"	0.0823	0.651	"	"	"	"	"
2-Picoline	ND	RL1,U	"	0.151	0.651	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	RL1,U	"	0.168	0.651	"	"	"	"	"
3,4-Methylphenol (m,p-Cresol)	ND	RL1,U	"	0.152	0.651	"	"	"	"	"
3-Methylcholanthrene	ND	RL1,U	"	0.243	0.651	"	"	"	"	"
3-Nitroaniline	ND	RL1,U	"	0.186	0.651	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	RL1,U	"	0.142	0.651	"	"	"	"	"
4-Aminobiphenyl	ND	RL1,U	"	0.703	1.30	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	RL1,U	"	0.178	0.651	"	"	"	"	"
4-Chloro-3-methylphenol	ND	RL1,U	"	0.183	0.651	"	"	"	"	"
4-Chloroaniline	ND	RL1,U	"	0.174	0.651	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	RL1,U	"	0.194	0.651	"	"	"	"	"
4-Nitroaniline	ND	RL1,U	"	0.196	0.651	"	"	"	"	"
4-Nitrophenol	ND	RL1,U	"	0.191	0.651	"	"	"	"	"
7,12-Dimethylbenz (a) anthracene	ND	RL1,U	"	0.179	0.651	"	"	"	"	"
a,a-Dimethylphenethylamine	ND	RL1,U	"	0.00207	0.651	"	"	"	"	"
Acenaphthene	ND	RL1,U	"	0.210	0.651	"	"	"	"	"
Acenaphthylene	ND	RL1,U	"	0.200	0.651	"	"	"	"	"
Acetophenone	ND	RL1,U	"	0.0819	0.651	"	"	"	"	"
Aniline	ND	RL1,U	"	0.495	0.651	"	"	"	"	"
Anthracene	**0.184**	RL1,J	"	0.175	0.651	"	"	"	"	"
Azobenzene	ND	RL1,U	"	0.0813	0.651	"	"	"	"	"
Benzidine	ND	RL1,U	"	0.509	3.36	"	"	"	"	"
Benzo (a) anthracene	**0.202**	RL1,J	"	0.139	0.651	"	"	"	"	"
Benzo (a) pyrene	ND	RL1,U	"	0.275	0.651	"	"	"	"	"
Benzo (b) fluoranthene	**0.366**	RL1,J	"	0.0759	0.651	"	"	"	"	"
Benzo (g,h,i) perylene	**0.318**	RL1,J	"	0.0745	0.651	"	"	"	"	"
Benzo (k) fluoranthene	**0.391**	RL1,J	"	0.242	0.651	"	"	"	"	"
Benzoic acid	ND	RL1,U	"	0.331	0.651	"	"	"	"	"
Benzyl alcohol	ND	RL1,U	"	0.156	0.651	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	RL1,U	"	0.172	0.651	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	RL1,U	"	0.200	0.651	"	"	"	"	"
Bis(2-chloroisopropyl) ether	ND	RL1,U	"	0.225	0.651	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	RL1,U	"	0.143	0.651	"	"	"	"	"
Butyl benzyl phthalate	ND	RL1,U	"	0.313	0.651	"	"	"	"	"
Chrysene	**0.295**	RL1,J	"	0.145	0.651	"	"	"	"	"

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ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	MDL	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
Sample ID: HSH0123-01 (KPMA-DU-1 - Solid/Soil) - cont.						**Sampled: 08/17/09**		**Recvd: 08/20/09 14:30**		
Semivolatile Organics by GC/MS - cont.										
Dibenz (a,j) acridine	ND	RL1,U	"	0.0963	0.651	"	"	"	"	"
Dibenzo (a,h) anthracene	**0.0908**	RL1,J	"	0.0758	0.651	"	"	"	"	"
Dibenzofuran	ND	RL1,U	"	0.191	0.651	"	"	"	"	"
Diethyl phthalate	ND	RL1,U	"	0.210	0.651	"	"	"	"	"
Dimethyl phthalate	ND	RL1,U	"	0.202	0.651	"	"	"	"	"
Dimethylaminoazobenzene	ND	RL1,U	"	0.140	0.651	"	"	"	"	"
Di-n-butyl phthalate	ND	RL1,U	"	0.202	0.651	"	"	"	"	"
Di-n-octyl phthalate	ND	RL1,U	"	0.145	0.651	"	"	"	"	"
Ethyl Methanesulfonate	ND	RL1,U	"	0.0796	0.651	"	"	"	"	"
Fluoranthene	**0.377**	RL1,J	"	0.178	0.651	"	"	"	"	"
Fluorene	ND	RL1,U	"	0.207	0.651	"	"	"	"	"
Hexachlorobenzene	ND	RL1,U	"	0.183	0.651	"	"	"	"	"
Hexachlorobutadiene	ND	RL1,U	"	0.205	0.651	"	"	"	"	"
Hexachlorocyclopentadiene	ND	RL1,U	"	0.228	0.651	"	"	"	"	"
Hexachloroethane	ND	RL1,U	"	0.275	0.651	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**0.161**	RL1,J	"	0.0741	0.651	"	"	"	"	"
Isophorone	ND	RL1,U	"	0.192	0.651	"	"	"	"	"
Methyl Methanesulfonate	ND	RL1,U	"	0.0852	0.651	"	"	"	"	"
Naphthalene	ND	RL1,U	"	0.100	0.651	"	"	"	"	"
Nitrobenzene	ND	RL1,U	"	0.0945	0.651	"	"	"	"	"
N-Nitrosodimethylamine	ND	RL1,U	"	0.330	0.651	"	"	"	"	"
N-Nitrosodi-n-butylamine	ND	RL1,U	"	0.185	0.651	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	RL1,U	"	0.0920	0.651	"	"	"	"	"
N-Nitrosodiphenylamine	ND	RL1,U	"	0.199	0.651	"	"	"	"	"
N-Nitrosopiperidine	ND	RL1,U	"	0.166	0.651	"	"	"	"	"
Pentachloronitrobenzene	ND	RL1,U	"	0.171	0.651	"	"	"	"	"
Pentachlorophenol	**3.47**	RL1	"	0.165	0.651	"	"	"	"	"
Phenacetin	ND	RL1,U	"	0.0896	0.651	"	"	"	"	"
Phenanthrene	ND	RL1,U	"	0.192	0.651	"	"	"	"	"
Phenol	ND	RL1,U	"	0.0677	0.651	"	"	"	"	"
Pronamide	ND	RL1,U	"	0.217	0.651	"	"	"	"	"
Pyrene	**0.295**	RL1,J	"	0.141	0.651	"	"	"	"	"
Pyridine	ND	RL1,U	"	0.186	0.651	"	"	"	"	"
Surr: 2,4,6-Tribromophenol (40-120%)	*103 %*	*RL1*					"	"	"	"
Surr: 2-Fluorobiphenyl (45-120%)	*81 %*	*RL1*					"	"	"	"
Surr: 2-Fluorophenol (30-120%)	*49 %*	*RL1*					"	"	"	"
Surr: Nitrobenzene-d5 (35-120%)	*60 %*	*RL1*					"	"	"	"
Surr: Phenol-d6 (40-120%)	*51 %*	*RL1*					"	"	"	"
Surr: Terphenyl-d14 (40-130%)	*91 %*	*RL1*					"	"	"	"
Total Metals by SW 846 Series Methods										
Aluminum	**59400**		mg/kg	14.9	196	20	08/27/09 12:48	08/26/09	9H26011	SW6010B
Arsenic	**821**		"	1.57	19.6	"	"	"	"	"

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ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	MDL	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
Sample ID: HSH0123-01 (KPMA-DU-1 - Solid/Soil) - cont.						**Sampled: 08/17/09**			**Recvd: 08/20/09 14:30**	
Total Metals by SW 846 Series Methods - cont.										
Barium	**106**		"	0.412	9.80	5	08/27/09 12:43	"	"	"
Cadmium	**2.93**	RL1, J	"	0.397	4.90	"	"	"	"	"
Calcium	**4380**	B1, B	"	4.07	49.0	"	"	"	"	"
Chromium	**202**		"	0.358	4.90	"	"	"	"	"
Cobalt	**17.1**		"	0.289	4.90	"	"	"	"	"
Iron	**75600**		"	18.8	196	20	08/27/09 12:48	"	"	"
Lead	**210**		"	0.343	9.80	5	08/27/09 12:43	"	"	"
Magnesium	**3310**		"	3.77	49.0	"	"	"	"	"
Manganese	**823**		"	1.63	19.6	20	08/27/09 12:48	"	"	"
Mercury	**14.2**		"	0.0196	0.980	200	08/27/09 16:46	08/27/09	9H27008	SW7471
Potassium	**1350**		"	4.66	49.0	5	08/27/09 12:43	08/26/09	9H26011	SW6010B
Selenium	**2.44**	RL1, J	"	0.441	9.80	"	"	"	"	"
Silver	ND	RL1, U	"	0.0343	4.90	"	"	"	"	"
Sodium	**356**	B	"	5.15	49.0	"	"	"	"	"
Thallium	**4.64**	RL1, J	"	0.147	4.90	"	"	"	"	"
Vanadium	**140**		"	0.348	4.90	"	"	"	"	"
Antimony	**25.1**		"	0.294	9.80	"	"	"	"	"
Beryllium	ND	RL1, U	"	0.307	9.80	"	"	"	"	"
Copper	**45.4**		"	0.382	9.80	"	"	"	"	SW 6010B
Nickel	**31.4**		"	0.392	9.80	"	"	"	"	SW6010B
Zinc	**179**		"	0.343	9.80	"	"	"	"	"

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ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
Sample ID: HSH0123-01 (KPMA-DU-1 - Solid/Soil) - cont.					**Sampled: 08/17/09**			**Recvd: 08/20/09 14:30**	
Organophosphorus Pesticides per EPA Method 8141A									
Azinphos methyl	ND	RL1	ug/kg wet	78.9	2	09/12/09 01:51	08/31/09	9081026	EPA 8141A
Bolstar	ND	RL1	"	78.9	"	"	"	"	"
Chlorpyrifos	ND	RL1	"	78.9	"	"	"	"	"
Coumaphos	ND	RL1	"	78.9	"	"	"	"	"
Demeton, Total (Qualitative Only)	ND	RL1	"	78.9	"	"	"	"	"
Diazinon	ND	RL1	"	78.9	"	"	"	"	"
Dichlorvos	ND	RL1	"	78.9	"	"	"	"	"
Dimethoate	ND	RL1	"	78.9	"	"	"	"	"
Disulfoton	ND	RL1	"	78.9	"	"	"	"	"
Ethoprop	ND	RL1	"	78.9	"	"	"	"	"
Fensulfothion	ND	RL1	"	78.9	"	"	"	"	"
EPN	ND	RL1	"	78.9	"	"	"	"	"
Fenthion	ND	RL1	"	78.9	"	"	"	"	"
Malathion	ND	RL1	"	78.9	"	"	"	"	"
Mevinphos	ND	RL1	"	78.9	"	"	"	"	"
Parathion-methyl	ND	RL1	"	78.9	"	"	"	"	"
Parathion-ethyl	ND	RL1	"	78.9	"	"	"	"	"
Phorate	ND	RL1	"	78.9	"	"	"	"	"
Ronnel	ND	RL1	"	78.9	"	"	"	"	"
Stirophos (Tetrachlorvinphos)	ND	RL1	"	78.9	"	"	"	"	"
Tokuthion (Prothiofos)	ND	RL1	"	78.9	"	"	"	"	"
Trichloronate	ND	RL1	"	78.9	"	"	"	"	"
Surr: TBP (40-140%)	*67.4 %*	*RL1*				"	"	"	"
Surr: TPP (35-145%)	*24.2 %*	*RL1,Z*				"	"	"	"

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Department of Health, HEER Office
919 Ala Moana Boulevard, Room 206
Honolulu, HI 96814
Laura Young

Work Order: HSH0123
Project: Kohala Sugar
Project Number: Kohala Sugar - PMA

Received: 08/20/09
Reported: 09/21/09 16:17

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	MDL	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
Sample ID: HSH0123-02 (KPMA-DU-2 - Solid/Soil)						**Sampled: 08/17/09**			**Recvd: 08/20/09 14:30**	
Organochlorine Pesticides/PCBs										
4,4'-DDD	**0.0415**		mg/kg	0.00109	0.00397	1	08/31/09 12:47	08/28/09	9H28001	SW8081A
4,4'-DDE	ND	U	"	0.000993	0.00397	"	"	"	"	"
4,4'-DDT	**0.387**		"	0.00348	0.0199	5	09/02/09 12:33	"	"	"
Aldrin	**0.00252**	R1, J	"	0.00149	0.00397	1	08/31/09 12:47	"	"	"
alpha-BHC	ND	U	"	0.00179	0.00397	"	"	"	"	"
beta-BHC	ND	U	"	0.00169	0.00397	"	"	"	"	"
Chlordane	ND	U	"	0.0139	0.0328	"	"	"	"	"
delta-BHC	**0.0628**		"	0.00159	0.00397	"	"	"	"	"
Dieldrin	ND	U	"	0.00139	0.00397	"	"	"	"	"
Endosulfan I	ND	R10, U	"	0.00149	0.00397	"	"	"	"	"
Endosulfan II	**0.0134**	R1	"	0.000795	0.00397	"	"	"	"	"
Endosulfan sulfate	**0.00334**	R10, J	"	0.000993	0.00397	"	"	"	"	"
Endrin	ND	R10, U	"	0.000993	0.00397	"	"	"	"	"
Endrin aldehyde	**0.00162**	R10, J	"	0.000695	0.00397	"	"	"	"	"
Endrin ketone	ND	U	"	0.00169	0.00397	"	"	"	"	"
gamma-BHC (Lindane)	ND	U	"	0.00119	0.00397	"	"	"	"	"
Heptachlor	**0.00318**	R1, J	"	0.00139	0.00397	"	"	"	"	"
Heptachlor epoxide	**0.00467**	R1	"	0.00109	0.00397	"	"	"	"	"
Methoxychlor	**0.0443**	R10	"	0.00139	0.0199	"	"	"	"	"
Toxaphene	ND	U	"	0.0497	0.0497	"	"	"	"	"
alpha-Chlordane	ND	U	"	0.00179	0.00397	"	"	"	"	"
gamma-Chlordane	ND	R10, U	"	0.000993	0.00397	"	"	"	"	"
Surr: Decachlorobiphenyl (45-120%)	*3130 %*	*R1, Z1*					"	"	"	"
Surr: Tetrachloro-meta-xylene (50-120%)	*89 %*	*R10*					"	"	"	"
Semivolatile Organics by GC/MS										
1,2,4,5-Tetrachlorobenzene	ND	RL1,U	mg/kg	0.636	0.656	2	09/06/09 15:54	08/31/09	9H31003	SW8270C
1,2,4-Trichlorobenzene	ND	RL1,U	"	0.172	0.656	"	"	"	"	"
1,2-Dichlorobenzene	ND	RL1,U	"	0.246	0.656	"	"	"	"	"
1,3-Dichlorobenzene	ND	RL1,U	"	0.260	0.656	"	"	"	"	"
1,4-Dichlorobenzene	ND	RL1,U	"	0.255	0.656	"	"	"	"	"
1-Chloronaphthalene	ND	RL1,U	"	0.199	0.656	"	"	"	"	"
1-Methylnaphthalene	ND	RL1,U	"	0.111	0.656	"	"	"	"	"
1-Naphthylamine	ND	RL1,U	"	0.878	1.31	"	"	"	"	"
2,3,4,6-Tetrachlorophenol	ND	RL1,U	"	0.201	0.656	"	"	"	"	"
2,4,5-Trichlorophenol	ND	RL1,U	"	0.191	0.656	"	"	"	"	"
2,4,6-Trichlorophenol	ND	RL1,U	"	0.180	0.656	"	"	"	"	"
2,4-Dichlorophenol	ND	RL1,U	"	0.147	0.656	"	"	"	"	"
2,4-Dimethylphenol	ND	RL1,U	"	0.165	0.656	"	"	"	"	"
2,4-Dinitrophenol	ND	RL1,U	"	0.387	3.38	"	"	"	"	"
2,4-Dinitrotoluene	ND	RL1,U	"	0.263	0.656	"	"	"	"	"
2,6-Dichlorophenol	ND	RL1,U	"	0.161	0.656	"	"	"	"	"
2,6-Dinitrotoluene	ND	RL1,U	"	0.192	0.656	"	"	"	"	"

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Work Order: HSH0123
Project: Kohala Sugar
Project Number: Kohala Sugar - PMA

Received: 08/20/09
Reported: 09/21/09 16:17

ANALYTICAL REPORT

Sample ID: HSH0123-02 (KPMA-DU-2 - Solid/Soil) - cont. **Sampled: 08/17/09** **Recvd: 08/20/09 14:30**

Semivolatile Organics by GC/MS - cont.

Analyte	Sample Result	Data Qualifiers	Units	MDL	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
2-Chloronaphthalene	ND	RL1,U	"	0.0695	0.656	"	"	"	"	"
2-Chlorophenol	ND	RL1,U	"	0.147	0.656	"	"	"	"	"
2-Methylnaphthalene	ND	RL1,U	"	0.174	0.656	"	"	"	"	"
2-Methylphenol (o-Cresol)	ND	RL1,U	"	0.144	0.656	"	"	"	"	"
2-Naphthylamine	ND	RL1,U	"	0.654	1.31	"	"	"	"	"
2-Nitroaniline	ND	RL1,U	"	0.248	0.656	"	"	"	"	"
2-Nitrophenol	ND	RL1,U	"	0.0828	0.656	"	"	"	"	"
2-Picoline	ND	RL1,U	"	0.152	0.656	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	RL1,U	"	0.169	0.656	"	"	"	"	"
3,4-Methylphenol (m,p-Cresol)	ND	RL1,U	"	0.153	0.656	"	"	"	"	"
3-Methylcholanthrene	ND	RL1,U	"	0.244	0.656	"	"	"	"	"
3-Nitroaniline	ND	RL1,U	"	0.187	0.656	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	RL1,U	"	0.143	0.656	"	"	"	"	"
4-Aminobiphenyl	ND	RL1,U	"	0.707	1.31	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	RL1,U	"	0.179	0.656	"	"	"	"	"
4-Chloro-3-methylphenol	ND	RL1,U	"	0.184	0.656	"	"	"	"	"
4-Chloroaniline	ND	RL1,U	"	0.175	0.656	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	RL1,U	"	0.195	0.656	"	"	"	"	"
4-Nitroaniline	ND	RL1,U	"	0.198	0.656	"	"	"	"	"
4-Nitrophenol	ND	RL1,U	"	0.192	0.656	"	"	"	"	"
7,12-Dimethylbenz (a) anthracene	**0.474**	RL1,J	"	0.180	0.656	"	"	"	"	"
a,a-Dimethylphenethylamine	ND	RL1,U	"	0.00208	0.656	"	"	"	"	"
Acenaphthene	ND	RL1,U	"	0.212	0.656	"	"	"	"	"
Acenaphthylene	ND	RL1,U	"	0.202	0.656	"	"	"	"	"
Acetophenone	ND	RL1,U	"	0.0825	0.656	"	"	"	"	"
Aniline	ND	RL1,U	"	0.499	0.656	"	"	"	"	"
Anthracene	ND	RL1,U	"	0.176	0.656	"	"	"	"	"
Azobenzene	ND	RL1,U	"	0.0819	0.656	"	"	"	"	"
Benzidine	ND	RL1,U	"	0.512	3.38	"	"	"	"	"
Benzo (a) anthracene	ND	RL1,U	"	0.140	0.656	"	"	"	"	"
Benzo (a) pyrene	ND	RL1,U	"	0.277	0.656	"	"	"	"	"
Benzo (b) fluoranthene	**0.202**	RL1,J	"	0.0764	0.656	"	"	"	"	"
Benzo (g,h,i) perylene	**0.185**	RL1,J	"	0.0750	0.656	"	"	"	"	"
Benzo (k) fluoranthene	ND	RL1,U	"	0.244	0.656	"	"	"	"	"
Benzoic acid	ND	RL1,U	"	0.333	0.656	"	"	"	"	"
Benzyl alcohol	ND	RL1,U	"	0.157	0.656	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	RL1,U	"	0.173	0.656	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	RL1,U	"	0.202	0.656	"	"	"	"	"
Bis(2-chloroisopropyl) ether	ND	RL1,U	"	0.226	0.656	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	RL1,U	"	0.144	0.656	"	"	"	"	"
Butyl benzyl phthalate	ND	RL1,U	"	0.316	0.656	"	"	"	"	"
Chrysene	**0.176**	RL1,J	"	0.145	0.656	"	"	"	"	"

Department of Health, HEER Office 919 Ala Moana Boulevard, Room 206 Honolulu, HI 96814 Laura Young	Work Order: HSH0123 Project: Kohala Sugar Project Number: Kohala Sugar - PMA	Received: 08/20/09 Reported: 09/21/09 16:17	

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	MDL	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
Sample ID: HSH0123-02 (KPMA-DU-2 - Solid/Soil) - cont.						**Sampled: 08/17/09**		**Recvd: 08/20/09 14:30**		
Semivolatile Organics by GC/MS - cont.										
Dibenz (a,j) acridine	ND	RL1,U	"	0.0969	0.656	"	"	"	"	"
Dibenzo (a,h) anthracene	ND	RL1,U	"	0.0763	0.656	"	"	"	"	"
Dibenzofuran	ND	RL1,U	"	0.192	0.656	"	"	"	"	"
Diethyl phthalate	ND	RL1,U	"	0.211	0.656	"	"	"	"	"
Dimethyl phthalate	ND	RL1,U	"	0.204	0.656	"	"	"	"	"
Dimethylaminoazobenzene	ND	RL1,U	"	0.141	0.656	"	"	"	"	"
Di-n-butyl phthalate	ND	RL1,U	"	0.203	0.656	"	"	"	"	"
Di-n-octyl phthalate	ND	RL1,U	"	0.146	0.656	"	"	"	"	"
Ethyl Methanesulfonate	ND	RL1,U	"	0.0801	0.656	"	"	"	"	"
Fluoranthene	**0.248**	RL1,J	"	0.179	0.656	"	"	"	"	"
Fluorene	ND	RL1,U	"	0.209	0.656	"	"	"	"	"
Hexachlorobenzene	ND	RL1,U	"	0.184	0.656	"	"	"	"	"
Hexachlorobutadiene	ND	RL1,U	"	0.206	0.656	"	"	"	"	"
Hexachlorocyclopentadiene	ND	RL1,U	"	0.230	0.656	"	"	"	"	"
Hexachloroethane	ND	RL1,U	"	0.276	0.656	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**0.109**	RL1,J	"	0.0746	0.656	"	"	"	"	"
Isophorone	ND	RL1,U	"	0.193	0.656	"	"	"	"	"
Methyl Methanesulfonate	ND	RL1,U	"	0.0858	0.656	"	"	"	"	"
Naphthalene	ND	RL1,U	"	0.101	0.656	"	"	"	"	"
Nitrobenzene	ND	RL1,U	"	0.0952	0.656	"	"	"	"	"
N-Nitrosodimethylamine	ND	RL1,U	"	0.332	0.656	"	"	"	"	"
N-Nitrosodi-n-butylamine	ND	RL1,U	"	0.186	0.656	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	RL1,U	"	0.0927	0.656	"	"	"	"	"
N-Nitrosodiphenylamine	ND	RL1,U	"	0.200	0.656	"	"	"	"	"
N-Nitrosopiperidine	ND	RL1,U	"	0.167	0.656	"	"	"	"	"
Pentachloronitrobenzene	ND	RL1,U	"	0.172	0.656	"	"	"	"	"
Pentachlorophenol	**3.52**	RL1	"	0.167	0.656	"	"	"	"	"
Phenacetin	ND	RL1,U	"	0.0902	0.656	"	"	"	"	"
Phenanthrene	ND	RL1,U	"	0.193	0.656	"	"	"	"	"
Phenol	ND	RL1,U	"	0.0681	0.656	"	"	"	"	"
Pronamide	ND	RL1,U	"	0.218	0.656	"	"	"	"	"
Pyrene	**0.160**	RL1,J	"	0.142	0.656	"	"	"	"	"
Pyridine	ND	RL1,U	"	0.187	0.656	"	"	"	"	"
Surr: 2,4,6-Tribromophenol (40-120%)	*91 %*	*RL1*					"	"	"	"
Surr: 2-Fluorobiphenyl (45-120%)	*82 %*	*RL1*					"	"	"	"
Surr: 2-Fluorophenol (30-120%)	*59 %*	*RL1*					"	"	"	"
Surr: Nitrobenzene-d5 (35-120%)	*67 %*	*RL1*					"	"	"	"
Surr: Phenol-d6 (40-120%)	*65 %*	*RL1*					"	"	"	"
Surr: Terphenyl-d14 (40-130%)	*78 %*	*RL1*					"	"	"	"
Total Metals by SW 846 Series Methods										
Aluminum	**60900**		mg/kg	14.7	194	20	08/27/09 12:58	08/26/09	9H26011	SW6010B
Arsenic	**788**		"	1.55	19.4	"	"	"	"	"

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Department of Health, HEER Office 919 Ala Moana Boulevard, Room 206 Honolulu, HI 96814 Laura Young	Work Order: HSH0123 Project: Kohala Sugar Project Number: Kohala Sugar - PMA	Received: 08/20/09 Reported: 09/21/09 16:17	

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	MDL	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
Sample ID: HSH0123-02 (KPMA-DU-2 - Solid/Soil) - cont.						**Sampled: 08/17/09**			**Recvd: 08/20/09 14:30**	
Total Metals by SW 846 Series Methods - cont.										
Barium	**89.0**		"	0.407	9.68	5	08/27/09 12:53	"	"	"
Cadmium	**1.35**	RL1, J	"	0.392	4.84	"	"	"	"	"
Calcium	**3930**	B1, B	"	4.02	48.4	"	"	"	"	"
Chromium	**104**		"	0.353	4.84	"	"	"	"	"
Cobalt	**18.4**		"	0.286	4.84	"	"	"	"	"
Iron	**84000**		"	18.6	194	20	08/27/09 12:58	"	"	"
Lead	**64.2**		"	0.339	9.68	5	08/27/09 12:53	"	"	"
Magnesium	**3710**		"	3.73	48.4	"	"	"	"	"
Manganese	**746**		"	1.61	19.4	20	08/27/09 12:58	"	"	"
Mercury	**8.01**		"	0.00980	0.490	100	08/27/09 16:19	08/27/09	9H27008	SW7471
Potassium	**965**		"	4.60	48.4	5	08/27/09 12:53	08/26/09	9H26011	SW6010B
Selenium	**1.84**	RL1, J	"	0.436	9.68	"	"	"	"	"
Silver	ND	RL1, U	"	0.0339	4.84	"	"	"	"	"
Sodium	**312**	B	"	5.08	48.4	"	"	"	"	"
Thallium	**0.992**	RL1, J	"	0.145	4.84	"	"	"	"	"
Vanadium	**160**		"	0.344	4.84	"	"	"	"	"
Antimony	**27.4**		"	0.290	9.68	"	"	"	"	"
Beryllium	ND	RL1, U	"	0.303	9.68	"	"	"	"	"
Copper	**37.1**		"	0.378	9.68	"	"	"	"	SW 6010B
Nickel	**34.0**		"	0.387	9.68	"	"	"	"	SW6010B
Zinc	**128**		"	0.339	9.68	"	"	"	"	"

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Department of Health, HEER Office 919 Ala Moana Boulevard, Room 206 Honolulu, HI 96814 Laura Young	Work Order: HSH0123 Project: Kohala Sugar Project Number: Kohala Sugar - PMA	Received: 08/20/09 Reported: 09/21/09 16:17	

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
Sample ID: HSH0123-02 (KPMA-DU-2 - Solid/Soil) - cont.					**Sampled: 08/17/09**		**Recvd: 08/20/09 14:30**		
Organophosphorus Pesticides per EPA Method 8141A									
Azinphos methyl	ND	RL1	ug/kg wet	79.3	2	09/12/09 02:21	08/31/09	9081026	EPA 8141A
Bolstar	ND	RL1	"	79.3	"	"	"	"	"
Chlorpyrifos	ND	RL1	"	79.3	"	"	"	"	"
Coumaphos	ND	RL1	"	79.3	"	"	"	"	"
Demeton, Total (Qualitative Only)	ND	RL1	"	79.3	"	"	"	"	"
Diazinon	ND	RL1	"	79.3	"	"	"	"	"
Dichlorvos	ND	RL1	"	79.3	"	"	"	"	"
Dimethoate	ND	RL1	"	79.3	"	"	"	"	"
Disulfoton	ND	RL1	"	79.3	"	"	"	"	"
Ethoprop	ND	RL1	"	79.3	"	"	"	"	"
Fensulfothion	ND	RL1	"	79.3	"	"	"	"	"
EPN	ND	RL1	"	79.3	"	"	"	"	"
Fenthion	ND	RL1	"	79.3	"	"	"	"	"
Malathion	ND	RL1	"	79.3	"	"	"	"	"
Mevinphos	ND	RL1	"	79.3	"	"	"	"	"
Parathion-methyl	ND	RL1	"	79.3	"	"	"	"	"
Parathion-ethyl	ND	RL1	"	79.3	"	"	"	"	"
Phorate	ND	RL1	"	79.3	"	"	"	"	"
Ronnel	ND	RL1	"	79.3	"	"	"	"	"
Stirophos (Tetrachlorvinphos)	ND	RL1	"	79.3	"	"	"	"	"
Tokuthion (Prothiofos)	ND	RL1	"	79.3	"	"	"	"	"
Trichloronate	ND	RL1	"	79.3	"	"	"	"	"
Surr: TBP (40-140%)	*79.3 %*	*RL1*				"	"	"	"
Surr: TPP (35-145%)	*43.7 %*	*RL1*				"	"	"	"

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Laura Young

Work Order: HSH0123
Project: Kohala Sugar
Project Number: Kohala Sugar - PMA

Received: 08/20/09
Reported: 09/21/09 16:17

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	MDL	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
Sample ID: HSH0123-03 (KPMA-DU-3 - Solid/Soil)						**Sampled: 08/17/09**		**Recvd: 08/20/09 14:30**		
Organochlorine Pesticides/PCBs										
4,4'-DDD	ND	R10, U	mg/kg	0.00109	0.00396	1	08/31/09 13:06	08/28/09	9H28001	SW8081A
4,4'-DDE	ND	U	"	0.000990	0.00396	"	"	"	"	"
4,4'-DDT	**0.0419**	R1	"	0.000693	0.00396	"	"	"	"	"
Aldrin	ND	U	"	0.00149	0.00396	"	"	"	"	"
alpha-BHC	ND	U	"	0.00178	0.00396	"	"	"	"	"
beta-BHC	ND	R10, U	"	0.00168	0.00396	"	"	"	"	"
Chlordane	ND	U	"	0.0139	0.0327	"	"	"	"	"
delta-BHC	ND	R10, U	"	0.00158	0.00396	"	"	"	"	"
Dieldrin	ND	R10, U	"	0.00139	0.00396	"	"	"	"	"
Endosulfan I	ND	U	"	0.00149	0.00396	"	"	"	"	"
Endosulfan II	ND	U	"	0.000792	0.00396	"	"	"	"	"
Endosulfan sulfate	**0.00386**	R1, J	"	0.000990	0.00396	"	"	"	"	"
Endrin	ND	R10, U	"	0.000990	0.00396	"	"	"	"	"
Endrin aldehyde	**0.00290**	R10, J	"	0.000693	0.00396	"	"	"	"	"
Endrin ketone	ND	R10, U	"	0.00168	0.00396	"	"	"	"	"
gamma-BHC (Lindane)	**0.00320**	R1, J	"	0.00119	0.00396	"	"	"	"	"
Heptachlor	ND	R10, U	"	0.00139	0.00396	"	"	"	"	"
Heptachlor epoxide	ND	U	"	0.00109	0.00396	"	"	"	"	"
Methoxychlor	ND	U	"	0.00139	0.0198	"	"	"	"	"
Toxaphene	ND	U	"	0.0495	0.0495	"	"	"	"	"
alpha-Chlordane	ND	U	"	0.00178	0.00396	"	"	"	"	"
gamma-Chlordane	**0.00865**	R1	"	0.000990	0.00396	"	"	"	"	"
Surr: Decachlorobiphenyl (45-120%)	*950 %*	*Z1*					"	"	"	"
Surr: Tetrachloro-meta-xylene (50-120%)	*79 %*						"	"	"	"
Semivolatile Organics by GC/MS										
1,2,4,5-Tetrachlorobenzene	ND	RL1,U	mg/kg	0.636	0.656	2	09/06/09 16:35	08/31/09	9H31003	SW8270C
1,2,4-Trichlorobenzene	ND	RL1,U	"	0.172	0.656	"	"	"	"	"
1,2-Dichlorobenzene	ND	RL1,U	"	0.246	0.656	"	"	"	"	"
1,3-Dichlorobenzene	ND	RL1,U	"	0.260	0.656	"	"	"	"	"
1,4-Dichlorobenzene	ND	RL1,U	"	0.255	0.656	"	"	"	"	"
1-Chloronaphthalene	ND	RL1,U	"	0.199	0.656	"	"	"	"	"
1-Methylnaphthalene	ND	RL1,U	"	0.111	0.656	"	"	"	"	"
1-Naphthylamine	ND	RL1,U	"	0.878	1.31	"	"	"	"	"
2,3,4,6-Tetrachlorophenol	ND	RL1,U	"	0.201	0.656	"	"	"	"	"
2,4,5-Trichlorophenol	ND	RL1,U	"	0.191	0.656	"	"	"	"	"
2,4,6-Trichlorophenol	ND	RL1,U	"	0.180	0.656	"	"	"	"	"
2,4-Dichlorophenol	ND	RL1,U	"	0.147	0.656	"	"	"	"	"
2,4-Dimethylphenol	ND	RL1,U	"	0.165	0.656	"	"	"	"	"
2,4-Dinitrophenol	ND	RL1,U	"	0.387	3.38	"	"	"	"	"
2,4-Dinitrotoluene	ND	RL1,U	"	0.263	0.656	"	"	"	"	"
2,6-Dichlorophenol	ND	RL1,U	"	0.161	0.656	"	"	"	"	"
2,6-Dinitrotoluene	ND	RL1,U	"	0.192	0.656	"	"	"	"	"

Department of Health, HEER Office
919 Ala Moana Boulevard, Room 206
Honolulu, HI 96814
Laura Young

Work Order: HSH0123
Project: Kohala Sugar
Project Number: Kohala Sugar - PMA

Received: 08/20/09
Reported: 09/21/09 16:17

ANALYTICAL REPORT

Sample ID: HSH0123-03 (KPMA-DU-3 - Solid/Soil) - cont. **Sampled: 08/17/09** **Recvd: 08/20/09 14:30**

Semivolatile Organics by GC/MS - cont.

Analyte	Sample Result	Data Qualifiers	Units	MDL	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
2-Chloronaphthalene	ND	RL1,U	"	0.0695	0.656	"	"	"	"	"
2-Chlorophenol	ND	RL1,U	"	0.147	0.656	"	"	"	"	"
2-Methylnaphthalene	ND	RL1,U	"	0.174	0.656	"	"	"	"	"
2-Methylphenol (o-Cresol)	ND	RL1,U	"	0.144	0.656	"	"	"	"	"
2-Naphthylamine	ND	RL1,U	"	0.654	1.31	"	"	"	"	"
2-Nitroaniline	ND	RL1,U	"	0.248	0.656	"	"	"	"	"
2-Nitrophenol	ND	RL1,U	"	0.0828	0.656	"	"	"	"	"
2-Picoline	ND	RL1,U	"	0.152	0.656	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	RL1,U	"	0.169	0.656	"	"	"	"	"
3,4-Methylphenol (m,p-Cresol)	ND	RL1,U	"	0.153	0.656	"	"	"	"	"
3-Methylcholanthrene	ND	RL1,U	"	0.244	0.656	"	"	"	"	"
3-Nitroaniline	ND	RL1,U	"	0.187	0.656	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	RL1,U	"	0.143	0.656	"	"	"	"	"
4-Aminobiphenyl	ND	RL1,U	"	0.707	1.31	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	RL1,U	"	0.179	0.656	"	"	"	"	"
4-Chloro-3-methylphenol	ND	RL1,U	"	0.184	0.656	"	"	"	"	"
4-Chloroaniline	ND	RL1,U	"	0.175	0.656	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	RL1,U	"	0.195	0.656	"	"	"	"	"
4-Nitroaniline	ND	RL1,U	"	0.198	0.656	"	"	"	"	"
4-Nitrophenol	ND	RL1,U	"	0.192	0.656	"	"	"	"	"
7,12-Dimethylbenz (a) anthracene	**0.511**	RL1,J	"	0.180	0.656	"	"	"	"	"
a,a-Dimethylphenethylamine	ND	RL1,U	"	0.00208	0.656	"	"	"	"	"
Acenaphthene	ND	RL1,U	"	0.212	0.656	"	"	"	"	"
Acenaphthylene	ND	RL1,U	"	0.202	0.656	"	"	"	"	"
Acetophenone	ND	RL1,U	"	0.0825	0.656	"	"	"	"	"
Aniline	ND	RL1,U	"	0.499	0.656	"	"	"	"	"
Anthracene	ND	RL1,U	"	0.176	0.656	"	"	"	"	"
Azobenzene	ND	RL1,U	"	0.0819	0.656	"	"	"	"	"
Benzidine	ND	RL1,U	"	0.512	3.38	"	"	"	"	"
Benzo (a) anthracene	**0.199**	RL1,J	"	0.140	0.656	"	"	"	"	"
Benzo (a) pyrene	**0.295**	RL1,J	"	0.277	0.656	"	"	"	"	"
Benzo (b) fluoranthene	**0.558**	RL1,J	"	0.0764	0.656	"	"	"	"	"
Benzo (g,h,i) perylene	**0.356**	RL1,J	"	0.0750	0.656	"	"	"	"	"
Benzo (k) fluoranthene	**0.587**	RL1,J	"	0.244	0.656	"	"	"	"	"
Benzoic acid	ND	RL1,U	"	0.333	0.656	"	"	"	"	"
Benzyl alcohol	ND	RL1,U	"	0.157	0.656	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	RL1,U	"	0.173	0.656	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	RL1,U	"	0.202	0.656	"	"	"	"	"
Bis(2-chloroisopropyl) ether	ND	RL1,U	"	0.226	0.656	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	RL1,U	"	0.144	0.656	"	"	"	"	"
Butyl benzyl phthalate	ND	RL1,U	"	0.316	0.656	"	"	"	"	"
Chrysene	**0.514**	RL1,J	"	0.145	0.656	"	"	"	"	"

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Department of Health, HEER Office 919 Ala Moana Boulevard, Room 206 Honolulu, HI 96814 Laura Young	Work Order: HSH0123 Project: Kohala Sugar Project Number: Kohala Sugar - PMA	Received: 08/20/09 Reported: 09/21/09 16:17	

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	MDL	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
Sample ID: HSH0123-03 (KPMA-DU-3 - Solid/Soil) - cont.						**Sampled: 08/17/09**		**Recvd: 08/20/09 14:30**		
Semivolatile Organics by GC/MS - cont.										
Dibenz (a,j) acridine	ND	RL1,U	"	0.0969	0.656	"	"	"	"	"
Dibenzo (a,h) anthracene	**0.0887**	RL1,J	"	0.0763	0.656	"	"	"	"	"
Dibenzofuran	ND	RL1,U	"	0.192	0.656	"	"	"	"	"
Diethyl phthalate	ND	RL1,U	"	0.211	0.656	"	"	"	"	"
Dimethyl phthalate	ND	RL1,U	"	0.204	0.656	"	"	"	"	"
Dimethylaminoazobenzene	ND	RL1,U	"	0.141	0.656	"	"	"	"	"
Di-n-butyl phthalate	ND	RL1,U	"	0.203	0.656	"	"	"	"	"
Di-n-octyl phthalate	ND	RL1,U	"	0.146	0.656	"	"	"	"	"
Ethyl Methanesulfonate	ND	RL1,U	"	0.0801	0.656	"	"	"	"	"
Fluoranthene	**0.913**	RL1	"	0.179	0.656	"	"	"	"	"
Fluorene	ND	RL1,U	"	0.209	0.656	"	"	"	"	"
Hexachlorobenzene	ND	RL1,U	"	0.184	0.656	"	"	"	"	"
Hexachlorobutadiene	ND	RL1,U	"	0.206	0.656	"	"	"	"	"
Hexachlorocyclopentadiene	ND	RL1,U	"	0.230	0.656	"	"	"	"	"
Hexachloroethane	ND	RL1,U	"	0.276	0.656	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**0.193**	RL1,J	"	0.0746	0.656	"	"	"	"	"
Isophorone	ND	RL1,U	"	0.193	0.656	"	"	"	"	"
Methyl Methanesulfonate	ND	RL1,U	"	0.0858	0.656	"	"	"	"	"
Naphthalene	ND	RL1,U	"	0.101	0.656	"	"	"	"	"
Nitrobenzene	ND	RL1,U	"	0.0952	0.656	"	"	"	"	"
N-Nitrosodimethylamine	ND	RL1,U	"	0.332	0.656	"	"	"	"	"
N-Nitrosodi-n-butylamine	ND	RL1,U	"	0.186	0.656	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	RL1,U	"	0.0927	0.656	"	"	"	"	"
N-Nitrosodiphenylamine	ND	RL1,U	"	0.200	0.656	"	"	"	"	"
N-Nitrosopiperidine	ND	RL1,U	"	0.167	0.656	"	"	"	"	"
Pentachloronitrobenzene	ND	RL1,U	"	0.172	0.656	"	"	"	"	"
Pentachlorophenol	**0.250**	RL1,J	"	0.167	0.656	"	"	"	"	"
Phenacetin	ND	RL1,U	"	0.0902	0.656	"	"	"	"	"
Phenanthrene	**0.475**	RL1,J	"	0.193	0.656	"	"	"	"	"
Phenol	ND	RL1,U	"	0.0681	0.656	"	"	"	"	"
Pronamide	ND	RL1,U	"	0.218	0.656	"	"	"	"	"
Pyrene	**0.491**	RL1,J	"	0.142	0.656	"	"	"	"	"
Pyridine	ND	RL1,U	"	0.187	0.656	"	"	"	"	"
Surr: 2,4,6-Tribromophenol (40-120%)	*77 %*	*RL1*					"	"	"	"
Surr: 2-Fluorobiphenyl (45-120%)	*68 %*	*RL1*					"	"	"	"
Surr: 2-Fluorophenol (30-120%)	*48 %*	*RL1*					"	"	"	"
Surr: Nitrobenzene-d5 (35-120%)	*58 %*	*RL1*					"	"	"	"
Surr: Phenol-d6 (40-120%)	*50 %*	*RL1*					"	"	"	"
Surr: Terphenyl-d14 (40-130%)	*63 %*	*RL1*					"	"	"	"
Total Metals by SW 846 Series Methods										
Aluminum	**46000**		mg/kg	14.7	193	20	08/27/09 13:08	08/26/09	9H26011	SW6010B
Arsenic	**23.8**		"	0.387	4.84	5	08/27/09 13:03	"	"	"

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Department of Health, HEER Office 919 Ala Moana Boulevard, Room 206 Honolulu, HI 96814 Laura Young	Work Order: HSH0123 Project: Kohala Sugar Project Number: Kohala Sugar - PMA	Received: 08/20/09 Reported: 09/21/09 16:17	

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	MDL	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
Sample ID: HSH0123-03 (KPMA-DU-3 - Solid/Soil) - cont.						**Sampled: 08/17/09**			**Recvd: 08/20/09 14:30**	
Total Metals by SW 846 Series Methods - cont.										
Barium	**82.2**		"	0.406	9.67	"	"	"	"	"
Cadmium	**0.406**	RL1, J	"	0.392	4.84	"	"	"	"	"
Calcium	**7270**	B1, B	"	4.01	48.4	"	"	"	"	"
Chromium	**93.7**		"	0.353	4.84	"	"	"	"	"
Cobalt	**13.8**		"	0.285	4.84	"	"	"	"	"
Iron	**67700**		"	18.6	193	20	08/27/09 13:08	"	"	"
Lead	**25.1**		"	0.338	9.67	5	08/27/09 13:03	"	"	"
Magnesium	**4230**		"	3.72	48.4	"	"	"	"	"
Manganese	**791**		"	1.61	19.3	20	08/27/09 13:08	"	"	"
Mercury	**0.311**		"	0.000481	0.0240	5	08/27/09 16:49	08/27/09	9H27008	SW7471
Potassium	**1790**		"	4.59	48.4	"	08/27/09 13:03	08/26/09	9H26011	SW6010B
Selenium	**1.13**	RL1, J	"	0.435	9.67	"	"	"	"	"
Silver	ND	RL1, U	"	0.0338	4.84	"	"	"	"	"
Sodium	**513**	B	"	5.08	48.4	"	"	"	"	"
Thallium	**0.818**	RL1, J	"	0.145	4.84	"	"	"	"	"
Vanadium	**134**		"	0.343	4.84	"	"	"	"	"
Antimony	**3.71**	RL1, J	"	0.290	9.67	"	"	"	"	"
Beryllium	ND	RL1, U	"	0.303	9.67	"	"	"	"	"
Copper	**26.9**		"	0.377	9.67	"	"	"	"	SW 6010B
Nickel	**28.7**		"	0.387	9.67	"	"	"	"	SW6010B
Zinc	**83.7**		"	0.338	9.67	"	"	"	"	"

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Department of Health, HEER Office 919 Ala Moana Boulevard, Room 206 Honolulu, HI 96814 Laura Young	Work Order: HSH0123 Project: Kohala Sugar Project Number: Kohala Sugar - PMA	Received: 08/20/09 Reported: 09/21/09 16:17	

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
Sample ID: HSH0123-03 (KPMA-DU-3 - Solid/Soil) - cont.					**Sampled: 08/17/09**		**Recvd: 08/20/09 14:30**		
Organophosphorus Pesticides per EPA Method 8141A									
Azinphos methyl	ND	RL1	ug/kg wet	79.6	2	09/12/09 02:50	08/31/09	9081026	EPA 8141A
Bolstar	ND	RL1	"	79.6	"	"	"	"	"
Chlorpyrifos	ND	RL1	"	79.6	"	"	"	"	"
Coumaphos	ND	RL1	"	79.6	"	"	"	"	"
Demeton, Total (Qualitative Only)	ND	RL1	"	79.6	"	"	"	"	"
Diazinon	ND	RL1	"	79.6	"	"	"	"	"
Dichlorvos	ND	RL1	"	79.6	"	"	"	"	"
Dimethoate	ND	RL1	"	79.6	"	"	"	"	"
Disulfoton	ND	RL1	"	79.6	"	"	"	"	"
Ethoprop	ND	RL1	"	79.6	"	"	"	"	"
Fensulfothion	ND	RL1	"	79.6	"	"	"	"	"
EPN	ND	RL1	"	79.6	"	"	"	"	"
Fenthion	ND	RL1	"	79.6	"	"	"	"	"
Malathion	ND	RL1	"	79.6	"	"	"	"	"
Mevinphos	ND	RL1	"	79.6	"	"	"	"	"
Parathion-methyl	ND	RL1	"	79.6	"	"	"	"	"
Parathion-ethyl	ND	RL1	"	79.6	"	"	"	"	"
Phorate	ND	RL1	"	79.6	"	"	"	"	"
Ronnel	ND	RL1	"	79.6	"	"	"	"	"
Stirophos (Tetrachlorvinphos)	ND	RL1	"	79.6	"	"	"	"	"
Tokuthion (Prothiofos)	ND	RL1	"	79.6	"	"	"	"	"
Trichloronate	ND	RL1	"	79.6	"	"	"	"	"
Surr: TBP (40-140%)	*76.5 %*	*RL1*				*"*	*"*	*"*	*"*
Surr: TPP (35-145%)	*42.0 %*	*RL1*				*"*	*"*	*"*	*"*

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Department of Health, HEER Office
919 Ala Moana Boulevard, Room 206
Honolulu, HI 96814
Laura Young

Work Order: HSH0123
Project: Kohala Sugar
Project Number: Kohala Sugar - PMA

Received: 08/20/09
Reported: 09/21/09 16:17

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	MDL	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
Sample ID: HSH0123-04 (KPMA-DU-4 - Solid/Soil)						**Sampled: 08/18/09**			**Recvd: 08/20/09 14:30**	
Organochlorine Pesticides/PCBs										
4,4'-DDD	**0.00109**	R10, J	mg/kg	0.00109	0.00395	1	08/31/09 13:26	08/28/09	9H28001	SW8081A
4,4'-DDE	ND	U	"	0.000987	0.00395	"	"	"	"	"
4,4'-DDT	**0.00829**		"	0.000691	0.00395	"	"	"	"	"
Aldrin	ND	R10, U	"	0.00148	0.00395	"	"	"	"	"
alpha-BHC	**0.00362**	R10, J	"	0.00178	0.00395	"	"	"	"	"
beta-BHC	**0.00803**	R10	"	0.00168	0.00395	"	"	"	"	"
Chlordane	ND	U	"	0.0138	0.0326	"	"	"	"	"
delta-BHC	**0.00283**	R10, J	"	0.00158	0.00395	"	"	"	"	"
Dieldrin	ND	U	"	0.00138	0.00395	"	"	"	"	"
Endosulfan I	ND	U	"	0.00148	0.00395	"	"	"	"	"
Endosulfan II	ND	U	"	0.000789	0.00395	"	"	"	"	"
Endosulfan sulfate	ND	R10, U	"	0.000987	0.00395	"	"	"	"	"
Endrin	ND	U	"	0.000987	0.00395	"	"	"	"	"
Endrin aldehyde	**0.00345**	R10, J	"	0.000691	0.00395	"	"	"	"	"
Endrin ketone	**0.00168**	J	"	0.00168	0.00395	"	"	"	"	"
gamma-BHC (Lindane)	ND	U	"	0.00118	0.00395	"	"	"	"	"
Heptachlor	ND	R10, U	"	0.00138	0.00395	"	"	"	"	"
Heptachlor epoxide	ND	U	"	0.00109	0.00395	"	"	"	"	"
Methoxychlor	ND	R10, U	"	0.00138	0.0197	"	"	"	"	"
Toxaphene	ND	U	"	0.0493	0.0493	"	"	"	"	"
alpha-Chlordane	ND	U	"	0.00178	0.00395	"	"	"	"	"
gamma-Chlordane	ND	U	"	0.000987	0.00395	"	"	"	"	"
Surr: Decachlorobiphenyl (45-120%)	*1070 %*	*R1, Z1*					"	"	"	"
Surr: Tetrachloro-meta-xylene (50-120%)	*81 %*						"	"	"	"
Semivolatile Organics by GC/MS										
1,2,4,5-Tetrachlorobenzene	ND	RL1,U	mg/kg	0.634	0.653	2	09/06/09 17:16	08/31/09	9H31003	SW8270C
1,2,4-Trichlorobenzene	ND	RL1,U	"	0.171	0.653	"	"	"	"	"
1,2-Dichlorobenzene	ND	RL1,U	"	0.245	0.653	"	"	"	"	"
1,3-Dichlorobenzene	ND	RL1,U	"	0.259	0.653	"	"	"	"	"
1,4-Dichlorobenzene	ND	RL1,U	"	0.255	0.653	"	"	"	"	"
1-Chloronaphthalene	ND	RL1,U	"	0.199	0.653	"	"	"	"	"
1-Methylnaphthalene	ND	RL1,U	"	0.111	0.653	"	"	"	"	"
1-Naphthylamine	ND	RL1,U	"	0.875	1.31	"	"	"	"	"
2,3,4,6-Tetrachlorophenol	ND	RL1,U	"	0.201	0.653	"	"	"	"	"
2,4,5-Trichlorophenol	ND	RL1,U	"	0.190	0.653	"	"	"	"	"
2,4,6-Trichlorophenol	ND	RL1,U	"	0.179	0.653	"	"	"	"	"
2,4-Dichlorophenol	ND	RL1,U	"	0.147	0.653	"	"	"	"	"
2,4-Dimethylphenol	ND	RL1,U	"	0.165	0.653	"	"	"	"	"
2,4-Dinitrophenol	ND	RL1,U	"	0.386	3.37	"	"	"	"	"
2,4-Dinitrotoluene	ND	RL1,U	"	0.262	0.653	"	"	"	"	"
2,6-Dichlorophenol	ND	RL1,U	"	0.160	0.653	"	"	"	"	"
2,6-Dinitrotoluene	ND	RL1,U	"	0.191	0.653	"	"	"	"	"

Department of Health, HEER Office
919 Ala Moana Boulevard, Room 206
Honolulu, HI 96814
Laura Young

Work Order: HSH0123
Project: Kohala Sugar
Project Number: Kohala Sugar - PMA

Received: 08/20/09
Reported: 09/21/09 16:17

ANALYTICAL REPORT

Sample ID: HSH0123-04 (KPMA-DU-4 - Solid/Soil) - cont. **Sampled: 08/18/09** **Recvd: 08/20/09 14:30**

Semivolatile Organics by GC/MS - cont.

Analyte	Sample Result	Data Qualifiers	Units	MDL	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
2-Chloronaphthalene	ND	RL1,U	"	0.0693	0.653	"	"	"	"	"
2-Chlorophenol	ND	RL1,U	"	0.146	0.653	"	"	"	"	"
2-Methylnaphthalene	ND	RL1,U	"	0.174	0.653	"	"	"	"	"
2-Methylphenol (o-Cresol)	ND	RL1,U	"	0.144	0.653	"	"	"	"	"
2-Naphthylamine	ND	RL1,U	"	0.652	1.31	"	"	"	"	"
2-Nitroaniline	ND	RL1,U	"	0.247	0.653	"	"	"	"	"
2-Nitrophenol	ND	RL1,U	"	0.0825	0.653	"	"	"	"	"
2-Picoline	ND	RL1,U	"	0.152	0.653	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	RL1,U	"	0.168	0.653	"	"	"	"	"
3,4-Methylphenol (m,p-Cresol)	ND	RL1,U	"	0.153	0.653	"	"	"	"	"
3-Methylcholanthrene	ND	RL1,U	"	0.244	0.653	"	"	"	"	"
3-Nitroaniline	ND	RL1,U	"	0.186	0.653	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	RL1,U	"	0.142	0.653	"	"	"	"	"
4-Aminobiphenyl	ND	RL1,U	"	0.705	1.31	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	RL1,U	"	0.178	0.653	"	"	"	"	"
4-Chloro-3-methylphenol	ND	RL1,U	"	0.183	0.653	"	"	"	"	"
4-Chloroaniline	ND	RL1,U	"	0.175	0.653	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	RL1,U	"	0.194	0.653	"	"	"	"	"
4-Nitroaniline	ND	RL1,U	"	0.197	0.653	"	"	"	"	"
4-Nitrophenol	ND	RL1,U	"	0.192	0.653	"	"	"	"	"
7,12-Dimethylbenz (a) anthracene	**0.457**	RL1,J	"	0.180	0.653	"	"	"	"	"
a,a-Dimethylphenethylamine	**0.00264**	RL1,J	"	0.00207	0.653	"	"	"	"	"
Acenaphthene	ND	RL1,U	"	0.211	0.653	"	"	"	"	"
Acenaphthylene	ND	RL1,U	"	0.201	0.653	"	"	"	"	"
Acetophenone	ND	RL1,U	"	0.0822	0.653	"	"	"	"	"
Aniline	ND	RL1,U	"	0.497	0.653	"	"	"	"	"
Anthracene	ND	RL1,U	"	0.175	0.653	"	"	"	"	"
Azobenzene	ND	RL1,U	"	0.0816	0.653	"	"	"	"	"
Benzidine	ND	RL1,U	"	0.511	3.37	"	"	"	"	"
Benzo (a) anthracene	**1.05**	RL1	"	0.140	0.653	"	"	"	"	"
Benzo (a) pyrene	**0.998**	RL1	"	0.276	0.653	"	"	"	"	"
Benzo (b) fluoranthene	**1.96**	RL1	"	0.0762	0.653	"	"	"	"	"
Benzo (g,h,i) perylene	**0.607**	RL1,J	"	0.0747	0.653	"	"	"	"	"
Benzo (k) fluoranthene	**0.590**	RL1,J	"	0.243	0.653	"	"	"	"	"
Benzoic acid	ND	RL1,U	"	0.332	0.653	"	"	"	"	"
Benzyl alcohol	ND	RL1,U	"	0.157	0.653	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	RL1,U	"	0.173	0.653	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	RL1,U	"	0.201	0.653	"	"	"	"	"
Bis(2-chloroisopropyl) ether	ND	RL1,U	"	0.226	0.653	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	RL1,U	"	0.144	0.653	"	"	"	"	"
Butyl benzyl phthalate	ND	RL1,U	"	0.314	0.653	"	"	"	"	"
Chrysene	**1.51**	RL1	"	0.145	0.653	"	"	"	"	"

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ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	MDL	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
Sample ID: HSH0123-04 (KPMA-DU-4 - Solid/Soil) - cont.						**Sampled: 08/18/09**		**Recvd: 08/20/09 14:30**		
Semivolatile Organics by GC/MS - cont.										
Dibenz (a,j) acridine	ND	RL1,U	"	0.0966	0.653	"	"	"	"	"
Dibenzo (a,h) anthracene	**0.172**	RL1,J	"	0.0761	0.653	"	"	"	"	"
Dibenzofuran	ND	RL1,U	"	0.192	0.653	"	"	"	"	"
Diethyl phthalate	ND	RL1,U	"	0.211	0.653	"	"	"	"	"
Dimethyl phthalate	ND	RL1,U	"	0.203	0.653	"	"	"	"	"
Dimethylaminoazobenzene	ND	RL1,U	"	0.141	0.653	"	"	"	"	"
Di-n-butyl phthalate	ND	RL1,U	"	0.202	0.653	"	"	"	"	"
Di-n-octyl phthalate	ND	RL1,U	"	0.145	0.653	"	"	"	"	"
Ethyl Methanesulfonate	**0.105**	RL1,J	"	0.0799	0.653	"	"	"	"	"
Fluoranthene	**3.14**	RL1	"	0.179	0.653	"	"	"	"	"
Fluorene	ND	RL1,U	"	0.208	0.653	"	"	"	"	"
Hexachlorobenzene	ND	RL1,U	"	0.183	0.653	"	"	"	"	"
Hexachlorobutadiene	ND	RL1,U	"	0.206	0.653	"	"	"	"	"
Hexachlorocyclopentadiene	ND	RL1,U	"	0.229	0.653	"	"	"	"	"
Hexachloroethane	ND	RL1,U	"	0.275	0.653	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**0.546**	RL1,J	"	0.0744	0.653	"	"	"	"	"
Isophorone	ND	RL1,U	"	0.193	0.653	"	"	"	"	"
Methyl Methanesulfonate	ND	RL1,U	"	0.0855	0.653	"	"	"	"	"
Naphthalene	ND	RL1,U	"	0.100	0.653	"	"	"	"	"
Nitrobenzene	ND	RL1,U	"	0.0949	0.653	"	"	"	"	"
N-Nitrosodimethylamine	ND	RL1,U	"	0.331	0.653	"	"	"	"	"
N-Nitrosodi-n-butylamine	ND	RL1,U	"	0.186	0.653	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	RL1,U	"	0.0923	0.653	"	"	"	"	"
N-Nitrosodiphenylamine	ND	RL1,U	"	0.199	0.653	"	"	"	"	"
N-Nitrosopiperidine	ND	RL1,U	"	0.166	0.653	"	"	"	"	"
Pentachloronitrobenzene	ND	RL1,U	"	0.172	0.653	"	"	"	"	"
Pentachlorophenol	**0.725**	RL1	"	0.166	0.653	"	"	"	"	"
Phenacetin	ND	RL1,U	"	0.0899	0.653	"	"	"	"	"
Phenanthrene	**1.30**	RL1	"	0.193	0.653	"	"	"	"	"
Phenol	ND	RL1,U	"	0.0679	0.653	"	"	"	"	"
Pronamide	ND	RL1,U	"	0.217	0.653	"	"	"	"	"
Pyrene	**1.74**	RL1	"	0.142	0.653	"	"	"	"	"
Pyridine	ND	RL1,U	"	0.186	0.653	"	"	"	"	"
Surr: 2,4,6-Tribromophenol (40-120%)	*82 %*	*RL1*					"	"	"	"
Surr: 2-Fluorobiphenyl (45-120%)	*70 %*	*RL1*					"	"	"	"
Surr: 2-Fluorophenol (30-120%)	*55 %*	*RL1*					"	"	"	"
Surr: Nitrobenzene-d5 (35-120%)	*63 %*	*RL1*					"	"	"	"
Surr: Phenol-d6 (40-120%)	*59 %*	*RL1*					"	"	"	"
Surr: Terphenyl-d14 (40-130%)	*65 %*	*RL1*					"	"	"	"
Total Metals by SW 846 Series Methods										
Aluminum	**49700**		mg/kg	15.0	197	20	08/27/09 13:28	08/26/09	9H26011	SW6010B
Arsenic	**27.9**		"	0.394	4.93	5	08/27/09 13:23	"	"	"

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
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Department of Health, HEER Office 919 Ala Moana Boulevard, Room 206 Honolulu, HI 96814 Laura Young	Work Order: HSH0123 Project: Kohala Sugar Project Number: Kohala Sugar - PMA	Received: 08/20/09 Reported: 09/21/09 16:17	

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	MDL	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
Sample ID: HSH0123-04 (KPMA-DU-4 - Solid/Soil) - cont.						**Sampled: 08/18/09**			**Recvd: 08/20/09 14:30**	
Total Metals by SW 846 Series Methods - cont.										
Barium	**95.0**		"	0.414	9.86	"	"	"	"	"
Cadmium	**2.44**	RL1, J	"	0.399	4.93	"	"	"	"	"
Calcium	**4730**	B1, B	"	4.09	49.3	"	"	"	"	"
Chromium	**439**		"	0.360	4.93	"	"	"	"	"
Cobalt	**16.6**		"	0.291	4.93	"	"	"	"	"
Iron	**95800**		"	18.9	197	20	08/27/09 13:28	"	"	"
Lead	**109**		"	0.345	9.86	5	08/27/09 13:23	"	"	"
Magnesium	**2770**		"	3.80	49.3	"	"	"	"	"
Manganese	**998**		"	1.64	19.7	20	08/27/09 13:28	"	"	"
Mercury	**0.441**		"	0.000481	0.0240	5	08/27/09 16:50	08/27/09	9H27008	SW7471
Potassium	**2090**		"	4.68	49.3	"	08/27/09 13:23	08/26/09	9H26011	SW6010B
Selenium	**2.44**	RL1, J	"	0.444	9.86	"	"	"	"	"
Silver	ND	RL1, U	"	0.0345	4.93	"	"	"	"	"
Sodium	**347**	B	"	5.18	49.3	"	"	"	"	"
Thallium	**1.04**	RL1, J	"	0.148	4.93	"	"	"	"	"
Vanadium	**147**		"	0.350	4.93	"	"	"	"	"
Antimony	**7.38**	RL1, J	"	0.296	9.86	"	"	"	"	"
Beryllium	ND	RL1, U	"	0.309	9.86	"	"	"	"	"
Copper	**83.9**		"	0.385	9.86	"	"	"	"	SW 6010B
Nickel	**43.9**		"	0.394	9.86	"	"	"	"	SW6010B
Zinc	**343**		"	1.38	39.4	20	08/27/09 13:28	"	"	"

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Analyte	Sample Result	Data Qualifiers	Units	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
Sample ID: HSH0123-04 (KPMA-DU-4 - Solid/Soil) - cont.					**Sampled: 08/18/09**		**Recvd: 08/20/09 14:30**		
Organophosphorus Pesticides per EPA Method 8141A									
Azinphos methyl	ND	RL1	ug/kg wet	79.5	2	09/12/09 03:20	08/31/09	9081026	EPA 8141A
Bolstar	ND	RL1	"	79.5	"	"	"	"	"
Chlorpyrifos	ND	RL1	"	79.5	"	"	"	"	"
Coumaphos	ND	RL1	"	79.5	"	"	"	"	"
Demeton, Total (Qualitative Only)	ND	RL1	"	79.5	"	"	"	"	"
Diazinon	ND	RL1	"	79.5	"	"	"	"	"
Dichlorvos	ND	RL1	"	79.5	"	"	"	"	"
Dimethoate	ND	RL1	"	79.5	"	"	"	"	"
Disulfoton	ND	RL1	"	79.5	"	"	"	"	"
Ethoprop	ND	RL1	"	79.5	"	"	"	"	"
Fensulfothion	ND	RL1	"	79.5	"	"	"	"	"
EPN	ND	RL1	"	79.5	"	"	"	"	"
Fenthion	ND	RL1	"	79.5	"	"	"	"	"
Malathion	ND	RL1	"	79.5	"	"	"	"	"
Mevinphos	ND	RL1	"	79.5	"	"	"	"	"
Parathion-methyl	ND	RL1	"	79.5	"	"	"	"	"
Parathion-ethyl	ND	RL1	"	79.5	"	"	"	"	"
Phorate	ND	RL1	"	79.5	"	"	"	"	"
Ronnel	ND	RL1	"	79.5	"	"	"	"	"
Stirophos (Tetrachlorvinphos)	ND	RL1	"	79.5	"	"	"	"	"
Tokuthion (Prothiofos)	ND	RL1	"	79.5	"	"	"	"	"
Trichloronate	ND	RL1	"	79.5	"	"	"	"	"
Surr: TBP (40-140%)	*80.5 %*	*RL1*				*"*	*"*	*"*	*"*
Surr: TPP (35-145%)	*56.9 %*	*RL1*				*"*	*"*	*"*	*"*

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Analyte	Sample Result	Data Qualifiers	Units	MDL	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
Sample ID: HSH0123-05 (KPMA-DU-5 - Solid/Soil)						**Sampled: 08/18/09**		**Recvd: 08/20/09 14:30**		
Organochlorine Pesticides/PCBs										
4,4'-DDD	**0.00171**	R10, J	mg/kg	0.00109	0.00395	1	08/31/09 13:45	08/28/09	9H28001	SW8081A
4,4'-DDE	**0.106**	R1	"	0.000987	0.00395	"	"	"	"	"
4,4'-DDT	ND	U	"	0.000691	0.00395	"	"	"	"	"
Aldrin	ND	U	"	0.00148	0.00395	"	"	"	"	"
alpha-BHC	ND	R10, U	"	0.00178	0.00395	"	"	"	"	"
beta-BHC	**0.00655**	R10	"	0.00168	0.00395	"	"	"	"	"
Chlordane	ND	U	"	0.0138	0.0326	"	"	"	"	"
delta-BHC	**0.00612**	R10	"	0.00158	0.00395	"	"	"	"	"
Dieldrin	ND	U	"	0.00138	0.00395	"	"	"	"	"
Endosulfan I	ND	U	"	0.00148	0.00395	"	"	"	"	"
Endosulfan II	**0.00671**	R1	"	0.000789	0.00395	"	"	"	"	"
Endosulfan sulfate	**0.0213**	R10	"	0.000987	0.00395	"	"	"	"	"
Endrin	ND	U	"	0.000987	0.00395	"	"	"	"	"
Endrin aldehyde	**0.00336**	R10, J	"	0.000691	0.00395	"	"	"	"	"
Endrin ketone	**0.00431**		"	0.00168	0.00395	"	"	"	"	"
gamma-BHC (Lindane)	**0.00362**	R10, J	"	0.00118	0.00395	"	"	"	"	"
Heptachlor	**0.00184**	R10, J	"	0.00138	0.00395	"	"	"	"	"
Heptachlor epoxide	ND	U	"	0.00109	0.00395	"	"	"	"	"
Methoxychlor	ND	R10, U	"	0.00138	0.0197	"	"	"	"	"
Toxaphene	ND	U	"	0.0493	0.0493	"	"	"	"	"
alpha-Chlordane	ND	U	"	0.00178	0.00395	"	"	"	"	"
gamma-Chlordane	ND	U	"	0.000987	0.00395	"	"	"	"	"
Surr: Decachlorobiphenyl (45-120%)	*2020 %*	*Z1*					"	"	"	"
Surr: Tetrachloro-meta-xylene (50-120%)	*102 %*						"	"	"	"
Semivolatile Organics by GC/MS										
1,2,4,5-Tetrachlorobenzene	ND	RL1,U	mg/kg	0.630	0.649	2	09/06/09 17:57	08/31/09	9H31003	SW8270C
1,2,4-Trichlorobenzene	ND	RL1,U	"	0.170	0.649	"	"	"	"	"
1,2-Dichlorobenzene	ND	RL1,U	"	0.244	0.649	"	"	"	"	"
1,3-Dichlorobenzene	ND	RL1,U	"	0.257	0.649	"	"	"	"	"
1,4-Dichlorobenzene	ND	RL1,U	"	0.253	0.649	"	"	"	"	"
1-Chloronaphthalene	ND	RL1,U	"	0.197	0.649	"	"	"	"	"
1-Methylnaphthalene	ND	RL1,U	"	0.110	0.649	"	"	"	"	"
1-Naphthylamine	ND	RL1,U	"	0.870	1.30	"	"	"	"	"
2,3,4,6-Tetrachlorophenol	ND	RL1,U	"	0.199	0.649	"	"	"	"	"
2,4,5-Trichlorophenol	ND	RL1,U	"	0.189	0.649	"	"	"	"	"
2,4,6-Trichlorophenol	ND	RL1,U	"	0.178	0.649	"	"	"	"	"
2,4-Dichlorophenol	ND	RL1,U	"	0.146	0.649	"	"	"	"	"
2,4-Dimethylphenol	ND	RL1,U	"	0.164	0.649	"	"	"	"	"
2,4-Dinitrophenol	ND	RL1,U	"	0.383	3.34	"	"	"	"	"
2,4-Dinitrotoluene	ND	RL1,U	"	0.260	0.649	"	"	"	"	"
2,6-Dichlorophenol	ND	RL1,U	"	0.159	0.649	"	"	"	"	"
2,6-Dinitrotoluene	ND	RL1,U	"	0.190	0.649	"	"	"	"	"

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ANALYTICAL REPORT

Sample ID: HSH0123-05 (KPMA-DU-5 - Solid/Soil) - cont. **Sampled: 08/18/09** **Recvd: 08/20/09 14:30**

Semivolatile Organics by GC/MS - cont.

Analyte	Sample Result	Data Qualifiers	Units	MDL	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
2-Chloronaphthalene	ND	RL1,U	"	0.0688	0.649	"	"	"	"	"
2-Chlorophenol	ND	RL1,U	"	0.145	0.649	"	"	"	"	"
2-Methylnaphthalene	ND	RL1,U	"	0.172	0.649	"	"	"	"	"
2-Methylphenol (o-Cresol)	ND	RL1,U	"	0.143	0.649	"	"	"	"	"
2-Naphthylamine	ND	RL1,U	"	0.647	1.30	"	"	"	"	"
2-Nitroaniline	ND	RL1,U	"	0.246	0.649	"	"	"	"	"
2-Nitrophenol	ND	RL1,U	"	0.0820	0.649	"	"	"	"	"
2-Picoline	ND	RL1,U	"	0.151	0.649	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	RL1,U	"	0.167	0.649	"	"	"	"	"
3,4-Methylphenol (m,p-Cresol)	ND	RL1,U	"	0.152	0.649	"	"	"	"	"
3-Methylcholanthrene	ND	RL1,U	"	0.242	0.649	"	"	"	"	"
3-Nitroaniline	ND	RL1,U	"	0.185	0.649	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	RL1,U	"	0.142	0.649	"	"	"	"	"
4-Aminobiphenyl	ND	RL1,U	"	0.700	1.30	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	RL1,U	"	0.177	0.649	"	"	"	"	"
4-Chloro-3-methylphenol	ND	RL1,U	"	0.182	0.649	"	"	"	"	"
4-Chloroaniline	ND	RL1,U	"	0.174	0.649	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	RL1,U	"	0.193	0.649	"	"	"	"	"
4-Nitroaniline	ND	RL1,U	"	0.196	0.649	"	"	"	"	"
4-Nitrophenol	ND	RL1,U	"	0.190	0.649	"	"	"	"	"
7,12-Dimethylbenz (a) anthracene	**0.498**	RL1,J	"	0.178	0.649	"	"	"	"	"
a,a-Dimethylphenethylamine	ND	RL1,U	"	0.00206	0.649	"	"	"	"	"
Acenaphthene	ND	RL1,U	"	0.209	0.649	"	"	"	"	"
Acenaphthylene	ND	RL1,U	"	0.200	0.649	"	"	"	"	"
Acetophenone	ND	RL1,U	"	0.0816	0.649	"	"	"	"	"
Aniline	ND	RL1,U	"	0.494	0.649	"	"	"	"	"
Anthracene	**0.323**	RL1,J	"	0.174	0.649	"	"	"	"	"
Azobenzene	ND	RL1,U	"	0.0811	0.649	"	"	"	"	"
Benzidine	ND	RL1,U	"	0.507	3.34	"	"	"	"	"
Benzo (a) anthracene	**3.24**	RL1	"	0.139	0.649	"	"	"	"	"
Benzo (a) pyrene	**3.22**	RL1	"	0.274	0.649	"	"	"	"	"
Benzo (b) fluoranthene	**5.78**	RL1	"	0.0757	0.649	"	"	"	"	"
Benzo (g,h,i) perylene	**1.85**	RL1	"	0.0742	0.649	"	"	"	"	"
Benzo (k) fluoranthene	**6.08**	RL1	"	0.241	0.649	"	"	"	"	"
Benzoic acid	ND	RL1,U	"	0.330	0.649	"	"	"	"	"
Benzyl alcohol	ND	RL1,U	"	0.156	0.649	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	RL1,U	"	0.172	0.649	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	RL1,U	"	0.200	0.649	"	"	"	"	"
Bis(2-chloroisopropyl) ether	ND	RL1,U	"	0.224	0.649	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	RL1,U	"	0.143	0.649	"	"	"	"	"
Butyl benzyl phthalate	ND	RL1,U	"	0.312	0.649	"	"	"	"	"
Chrysene	**4.28**	RL1	"	0.144	0.649	"	"	"	"	"

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Department of Health, HEER Office 919 Ala Moana Boulevard, Room 206 Honolulu, HI 96814 Laura Young	Work Order: HSH0123 Project: Kohala Sugar Project Number: Kohala Sugar - PMA	Received: 08/20/09 Reported: 09/21/09 16:17	

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	MDL	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
Sample ID: HSH0123-05 (KPMA-DU-5 - Solid/Soil) - cont.						**Sampled: 08/18/09**		**Recvd: 08/20/09 14:30**		
Semivolatile Organics by GC/MS - cont.										
Dibenz (a,j) acridine	ND	RL1,U	"	0.0960	0.649	"	"	"	"	"
Dibenzo (a,h) anthracene	**0.548**	RL1,J	"	0.0756	0.649	"	"	"	"	"
Dibenzofuran	ND	RL1,U	"	0.191	0.649	"	"	"	"	"
Diethyl phthalate	ND	RL1,U	"	0.209	0.649	"	"	"	"	"
Dimethyl phthalate	ND	RL1,U	"	0.202	0.649	"	"	"	"	"
Dimethylaminoazobenzene	ND	RL1,U	"	0.140	0.649	"	"	"	"	"
Di-n-butyl phthalate	ND	RL1,U	"	0.201	0.649	"	"	"	"	"
Di-n-octyl phthalate	ND	RL1,U	"	0.144	0.649	"	"	"	"	"
Ethyl Methanesulfonate	ND	RL1,U	"	0.0793	0.649	"	"	"	"	"
Fluoranthene	**5.24**	RL1	"	0.444	1.62	5	09/08/09 16:19	"	"	"
Fluorene	ND	RL1,U	"	0.207	0.649	2	09/06/09 17:57	"	"	"
Hexachlorobenzene	ND	RL1,U	"	0.182	0.649	"	"	"	"	"
Hexachlorobutadiene	ND	RL1,U	"	0.204	0.649	"	"	"	"	"
Hexachlorocyclopentadiene	ND	RL1,U	"	0.228	0.649	"	"	"	"	"
Hexachloroethane	ND	RL1,U	"	0.274	0.649	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**1.75**	RL1	"	0.0739	0.649	"	"	"	"	"
Isophorone	ND	RL1,U	"	0.191	0.649	"	"	"	"	"
Methyl Methanesulfonate	ND	RL1,U	"	0.0849	0.649	"	"	"	"	"
Naphthalene	**0.220**	RL1,J	"	0.0998	0.649	"	"	"	"	"
Nitrobenzene	ND	RL1,U	"	0.0942	0.649	"	"	"	"	"
N-Nitrosodimethylamine	ND	RL1,U	"	0.329	0.649	"	"	"	"	"
N-Nitrosodi-n-butylamine	ND	RL1,U	"	0.185	0.649	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	RL1,U	"	0.0917	0.649	"	"	"	"	"
N-Nitrosodiphenylamine	ND	RL1,U	"	0.198	0.649	"	"	"	"	"
N-Nitrosopiperidine	ND	RL1,U	"	0.165	0.649	"	"	"	"	"
Pentachloronitrobenzene	ND	RL1,U	"	0.171	0.649	"	"	"	"	"
Pentachlorophenol	**0.554**	RL1,J	"	0.165	0.649	"	"	"	"	"
Phenacetin	ND	RL1,U	"	0.0893	0.649	"	"	"	"	"
Phenanthrene	**3.01**	RL1	"	0.191	0.649	"	"	"	"	"
Phenol	ND	RL1,U	"	0.0674	0.649	"	"	"	"	"
Pronamide	ND	RL1,U	"	0.216	0.649	"	"	"	"	"
Pyrene	**4.60**	RL1	"	0.141	0.649	"	"	"	"	"
Pyridine	ND	RL1,U	"	0.185	0.649	"	"	"	"	"
Surr: 2,4,6-Tribromophenol (40-120%)	*79 %*	*RL1*					"	"	"	"
Surr: 2-Fluorobiphenyl (45-120%)	*66 %*	*RL1*					"	"	"	"
Surr: 2-Fluorophenol (30-120%)	*55 %*	*RL1*					"	"	"	"
Surr: Nitrobenzene-d5 (35-120%)	*60 %*	*RL1*					"	"	"	"
Surr: Phenol-d6 (40-120%)	*57 %*	*RL1*					"	"	"	"
Surr: Terphenyl-d14 (40-130%)	*59 %*	*RL1*					"	"	"	"
Total Metals by SW 846 Series Methods										
Aluminum	**49200**		mg/kg	14.8	194	20	08/27/09 13:38	08/26/09	9H26011	SW6010B
Arsenic	**34.2**		"	0.388	4.85	5	08/27/09 13:33	"	"	"

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Department of Health, HEER Office 919 Ala Moana Boulevard, Room 206 Honolulu, HI 96814 Laura Young	Work Order: HSH0123 Project: Kohala Sugar Project Number: Kohala Sugar - PMA	Received: 08/20/09 Reported: 09/21/09 16:17	

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	MDL	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
Sample ID: HSH0123-05 (KPMA-DU-5 - Solid/Soil) - cont.						**Sampled: 08/18/09**			**Recvd: 08/20/09 14:30**	
Total Metals by SW 846 Series Methods - cont.										
Barium	**97.1**		"	0.408	9.71	"	"	"	"	"
Cadmium	**2.53**	RL1, J	"	0.393	4.85	"	"	"	"	"
Calcium	**5360**	B1, B	"	4.03	48.5	"	"	"	"	"
Chromium	**653**		"	1.42	19.4	20	08/27/09 13:38	"	"	"
Cobalt	**16.2**		"	0.286	4.85	5	08/27/09 13:33	"	"	"
Iron	**99800**		"	18.6	194	20	08/27/09 13:38	"	"	"
Lead	**135**		"	0.340	9.71	5	08/27/09 13:33	"	"	"
Magnesium	**2690**		"	3.74	48.5	"	"	"	"	"
Manganese	**991**		"	1.61	19.4	20	08/27/09 13:38	"	"	"
Mercury	**0.466**		"	0.000490	0.0245	5	08/27/09 16:52	08/27/09	9H27008	SW7471
Potassium	**2580**		"	4.61	48.5	"	08/27/09 13:33	08/26/09	9H26011	SW6010B
Selenium	**2.11**	RL1, J	"	0.437	9.71	"	"	"	"	"
Silver	ND	RL1, U	"	0.0340	4.85	"	"	"	"	"
Sodium	**454**	B	"	5.10	48.5	"	"	"	"	"
Thallium	**0.630**	RL1, J	"	0.146	4.85	"	"	"	"	"
Vanadium	**135**		"	0.345	4.85	"	"	"	"	"
Antimony	**9.52**	RL1, J	"	0.291	9.71	"	"	"	"	"
Beryllium	ND	RL1, U	"	0.304	9.71	"	"	"	"	"
Copper	**128**		"	0.379	9.71	"	"	"	"	SW 6010B
Nickel	**50.3**		"	0.388	9.71	"	"	"	"	SW6010B
Zinc	**456**		"	1.36	38.8	20	08/27/09 13:38	"	"	"

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Department of Health, HEER Office 919 Ala Moana Boulevard, Room 206 Honolulu, HI 96814 Laura Young	Work Order: HSH0123 Project: Kohala Sugar Project Number: Kohala Sugar - PMA	Received: 08/20/09 Reported: 09/21/09 16:17	

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
Sample ID: HSH0123-05 (KPMA-DU-5 - Solid/Soil) - cont.					**Sampled: 08/18/09**		**Recvd: 08/20/09 14:30**		
Organophosphorus Pesticides per EPA Method 8141A									
Azinphos methyl	ND	RL1	ug/kg wet	78.9	2	09/12/09 03:50	08/31/09	9081026	EPA 8141A
Bolstar	ND	RL1	"	78.9	"	"	"	"	"
Chlorpyrifos	ND	RL1	"	78.9	"	"	"	"	"
Coumaphos	ND	RL1	"	78.9	"	"	"	"	"
Demeton, Total (Qualitative Only)	ND	RL1	"	78.9	"	"	"	"	"
Diazinon	ND	RL1	"	78.9	"	"	"	"	"
Dichlorvos	ND	RL1	"	78.9	"	"	"	"	"
Dimethoate	ND	RL1	"	78.9	"	"	"	"	"
Disulfoton	ND	RL1	"	78.9	"	"	"	"	"
Ethoprop	ND	RL1	"	78.9	"	"	"	"	"
Fensulfothion	ND	RL1	"	78.9	"	"	"	"	"
EPN	ND	RL1	"	78.9	"	"	"	"	"
Fenthion	ND	RL1	"	78.9	"	"	"	"	"
Malathion	ND	RL1	"	78.9	"	"	"	"	"
Mevinphos	ND	RL1	"	78.9	"	"	"	"	"
Parathion-methyl	ND	RL1	"	78.9	"	"	"	"	"
Parathion-ethyl	ND	RL1	"	78.9	"	"	"	"	"
Phorate	ND	RL1	"	78.9	"	"	"	"	"
Ronnel	ND	RL1	"	78.9	"	"	"	"	"
Stirophos (Tetrachlorvinphos)	ND	RL1	"	78.9	"	"	"	"	"
Tokuthion (Prothiofos)	ND	RL1	"	78.9	"	"	"	"	"
Trichloronate	ND	RL1	"	78.9	"	"	"	"	"
Surr: TBP (40-140%)	*80.7 %*	*RL1*				"	"	"	"
Surr: TPP (35-145%)	*55.6 %*	*RL1*				"	"	"	"

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Department of Health, HEER Office
919 Ala Moana Boulevard, Room 206
Honolulu, HI 96814
Laura Young

Work Order: HSH0123
Project: Kohala Sugar
Project Number: Kohala Sugar - PMA

Received: 08/20/09
Reported: 09/21/09 16:17

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	MDL	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
Sample ID: HSH0123-06 (KPMA-DU-6 - Solid/Soil)						**Sampled: 08/18/09**		**Recvd: 08/20/09 14:30**		
Organochlorine Pesticides/PCBs										
4,4'-DDD	ND	U	mg/kg	0.00109	0.00395	1	08/31/09 14:04	08/28/09	9H28001	SW8081A
4,4'-DDE	**0.0617**	R1	"	0.000987	0.00395	"	"	"	"	"
4,4'-DDT	ND	U	"	0.000691	0.00395	"	"	"	"	"
Aldrin	ND	U	"	0.00148	0.00395	"	"	"	"	"
alpha-BHC	**0.00280**	R10, J	"	0.00178	0.00395	"	"	"	"	"
beta-BHC	**0.0161**	R10	"	0.00168	0.00395	"	"	"	"	"
Chlordane	ND	U	"	0.0138	0.0326	"	"	"	"	"
delta-BHC	**0.00819**		"	0.00158	0.00395	"	"	"	"	"
Dieldrin	ND	U	"	0.00138	0.00395	"	"	"	"	"
Endosulfan I	ND	U	"	0.00148	0.00395	"	"	"	"	"
Endosulfan II	ND	U	"	0.000789	0.00395	"	"	"	"	"
Endosulfan sulfate	**0.00526**	R10	"	0.000987	0.00395	"	"	"	"	"
Endrin	ND	U	"	0.000987	0.00395	"	"	"	"	"
Endrin aldehyde	ND	U	"	0.000691	0.00395	"	"	"	"	"
Endrin ketone	**0.0236**	R10	"	0.00168	0.00395	"	"	"	"	"
gamma-BHC (Lindane)	ND	U	"	0.00118	0.00395	"	"	"	"	"
Heptachlor	**0.00178**	J	"	0.00138	0.00395	"	"	"	"	"
Heptachlor epoxide	ND	U	"	0.00109	0.00395	"	"	"	"	"
Methoxychlor	ND	U	"	0.00138	0.0197	"	"	"	"	"
Toxaphene	ND	U	"	0.0493	0.0493	"	"	"	"	"
alpha-Chlordane	ND	U	"	0.00178	0.00395	"	"	"	"	"
gamma-Chlordane	ND	U	"	0.000987	0.00395	"	"	"	"	"
Surr: Decachlorobiphenyl (45-120%)	*1540 %*	*R1, Z1*					"	"	"	"
Surr: Tetrachloro-meta-xylene (50-120%)	*94 %*						"	"	"	"
Semivolatile Organics by GC/MS										
1,2,4,5-Tetrachlorobenzene	ND	RL1,U	mg/kg	0.636	0.656	2	09/06/09 18:38	08/31/09	9H31003	SW8270C
1,2,4-Trichlorobenzene	ND	RL1,U	"	0.172	0.656	"	"	"	"	"
1,2-Dichlorobenzene	ND	RL1,U	"	0.246	0.656	"	"	"	"	"
1,3-Dichlorobenzene	ND	RL1,U	"	0.260	0.656	"	"	"	"	"
1,4-Dichlorobenzene	ND	RL1,U	"	0.255	0.656	"	"	"	"	"
1-Chloronaphthalene	ND	RL1,U	"	0.199	0.656	"	"	"	"	"
1-Methylnaphthalene	ND	RL1,U	"	0.111	0.656	"	"	"	"	"
1-Naphthylamine	ND	RL1,U	"	0.878	1.31	"	"	"	"	"
2,3,4,6-Tetrachlorophenol	ND	RL1,U	"	0.201	0.656	"	"	"	"	"
2,4,5-Trichlorophenol	ND	RL1,U	"	0.191	0.656	"	"	"	"	"
2,4,6-Trichlorophenol	ND	RL1,U	"	0.180	0.656	"	"	"	"	"
2,4-Dichlorophenol	ND	RL1,U	"	0.147	0.656	"	"	"	"	"
2,4-Dimethylphenol	ND	RL1,U	"	0.165	0.656	"	"	"	"	"
2,4-Dinitrophenol	ND	RL1,U	"	0.387	3.38	"	"	"	"	"
2,4-Dinitrotoluene	ND	RL1,U	"	0.263	0.656	"	"	"	"	"
2,6-Dichlorophenol	ND	RL1,U	"	0.161	0.656	"	"	"	"	"
2,6-Dinitrotoluene	ND	RL1,U	"	0.192	0.656	"	"	"	"	"

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Department of Health, HEER Office
919 Ala Moana Boulevard, Room 206
Honolulu, HI 96814
Laura Young

Work Order: HSH0123
Project: Kohala Sugar
Project Number: Kohala Sugar - PMA

Received: 08/20/09
Reported: 09/21/09 16:17

ANALYTICAL REPORT

Sample ID: HSH0123-06 (KPMA-DU-6 - Solid/Soil) - cont. **Sampled: 08/18/09** **Recvd: 08/20/09 14:30**

Semivolatile Organics by GC/MS - cont.

Analyte	Sample Result	Data Qualifiers	Units	MDL	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
2-Chloronaphthalene	ND	RL1,U	"	0.0695	0.656	"	"	"	"	"
2-Chlorophenol	ND	RL1,U	"	0.147	0.656	"	"	"	"	"
2-Methylnaphthalene	ND	RL1,U	"	0.174	0.656	"	"	"	"	"
2-Methylphenol (o-Cresol)	ND	RL1,U	"	0.144	0.656	"	"	"	"	"
2-Naphthylamine	ND	RL1,U	"	0.654	1.31	"	"	"	"	"
2-Nitroaniline	ND	RL1,U	"	0.248	0.656	"	"	"	"	"
2-Nitrophenol	ND	RL1,U	"	0.0828	0.656	"	"	"	"	"
2-Picoline	ND	RL1,U	"	0.152	0.656	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	RL1,U	"	0.169	0.656	"	"	"	"	"
3,4-Methylphenol (m,p-Cresol)	ND	RL1,U	"	0.153	0.656	"	"	"	"	"
3-Methylcholanthrene	ND	RL1,U	"	0.244	0.656	"	"	"	"	"
3-Nitroaniline	ND	RL1,U	"	0.187	0.656	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	RL1,U	"	0.143	0.656	"	"	"	"	"
4-Aminobiphenyl	ND	RL1,U	"	0.707	1.31	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	RL1,U	"	0.179	0.656	"	"	"	"	"
4-Chloro-3-methylphenol	ND	RL1,U	"	0.184	0.656	"	"	"	"	"
4-Chloroaniline	ND	RL1,U	"	0.175	0.656	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	RL1,U	"	0.195	0.656	"	"	"	"	"
4-Nitroaniline	ND	RL1,U	"	0.198	0.656	"	"	"	"	"
4-Nitrophenol	ND	RL1,U	"	0.192	0.656	"	"	"	"	"
7,12-Dimethylbenz (a) anthracene	**0.483**	RL1,J	"	0.180	0.656	"	"	"	"	"
a,a-Dimethylphenethylamine	ND	RL1,U	"	0.00208	0.656	"	"	"	"	"
Acenaphthene	ND	RL1,U	"	0.212	0.656	"	"	"	"	"
Acenaphthylene	ND	RL1,U	"	0.202	0.656	"	"	"	"	"
Acetophenone	ND	RL1,U	"	0.0825	0.656	"	"	"	"	"
Aniline	ND	RL1,U	"	0.499	0.656	"	"	"	"	"
Anthracene	**0.188**	RL1,J	"	0.176	0.656	"	"	"	"	"
Azobenzene	ND	RL1,U	"	0.0819	0.656	"	"	"	"	"
Benzidine	ND	RL1,U	"	0.512	3.38	"	"	"	"	"
Benzo (a) anthracene	**1.89**	RL1	"	0.140	0.656	"	"	"	"	"
Benzo (a) pyrene	**1.81**	RL1	"	0.277	0.656	"	"	"	"	"
Benzo (b) fluoranthene	**3.35**	RL1	"	0.0764	0.656	"	"	"	"	"
Benzo (g,h,i) perylene	**1.08**	RL1	"	0.0750	0.656	"	"	"	"	"
Benzo (k) fluoranthene	**1.09**	RL1	"	0.244	0.656	"	"	"	"	"
Benzoic acid	ND	RL1,U	"	0.333	0.656	"	"	"	"	"
Benzyl alcohol	ND	RL1,U	"	0.157	0.656	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	RL1,U	"	0.173	0.656	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	RL1,U	"	0.202	0.656	"	"	"	"	"
Bis(2-chloroisopropyl) ether	ND	RL1,U	"	0.226	0.656	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	RL1,U	"	0.144	0.656	"	"	"	"	"
Butyl benzyl phthalate	ND	RL1,U	"	0.316	0.656	"	"	"	"	"
Chrysene	**2.46**	RL1	"	0.145	0.656	"	"	"	"	"

Department of Health, HEER Office
919 Ala Moana Boulevard, Room 206
Honolulu, HI 96814
Laura Young

Work Order: HSH0123
Project: Kohala Sugar
Project Number: Kohala Sugar - PMA

Received: 08/20/09
Reported: 09/21/09 16:17

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	MDL	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
Sample ID: HSH0123-06 (KPMA-DU-6 - Solid/Soil) - cont.						**Sampled: 08/18/09**		**Recvd: 08/20/09 14:30**		
Semivolatile Organics by GC/MS - cont.										
Dibenz (a,j) acridine	ND	RL1,U	"	0.0969	0.656	"	"	"	"	"
Dibenzo (a,h) anthracene	**0.293**	RL1,J	"	0.0763	0.656	"	"	"	"	"
Dibenzofuran	ND	RL1,U	"	0.192	0.656	"	"	"	"	"
Diethyl phthalate	ND	RL1,U	"	0.211	0.656	"	"	"	"	"
Dimethyl phthalate	ND	RL1,U	"	0.204	0.656	"	"	"	"	"
Dimethylaminoazobenzene	ND	RL1,U	"	0.141	0.656	"	"	"	"	"
Di-n-butyl phthalate	ND	RL1,U	"	0.203	0.656	"	"	"	"	"
Di-n-octyl phthalate	ND	RL1,U	"	0.146	0.656	"	"	"	"	"
Ethyl Methanesulfonate	**0.0894**	RL1,J	"	0.0801	0.656	"	"	"	"	"
Fluoranthene	**4.90**	RL1	"	0.179	0.656	"	"	"	"	"
Fluorene	ND	RL1,U	"	0.209	0.656	"	"	"	"	"
Hexachlorobenzene	ND	RL1,U	"	0.184	0.656	"	"	"	"	"
Hexachlorobutadiene	ND	RL1,U	"	0.206	0.656	"	"	"	"	"
Hexachlorocyclopentadiene	ND	RL1,U	"	0.230	0.656	"	"	"	"	"
Hexachloroethane	ND	RL1,U	"	0.276	0.656	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**0.966**	RL1	"	0.0746	0.656	"	"	"	"	"
Isophorone	ND	RL1,U	"	0.193	0.656	"	"	"	"	"
Methyl Methanesulfonate	ND	RL1,U	"	0.0858	0.656	"	"	"	"	"
Naphthalene	**0.103**	RL1,J	"	0.101	0.656	"	"	"	"	"
Nitrobenzene	ND	RL1,U	"	0.0952	0.656	"	"	"	"	"
N-Nitrosodimethylamine	ND	RL1,U	"	0.332	0.656	"	"	"	"	"
N-Nitrosodi-n-butylamine	ND	RL1,U	"	0.186	0.656	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	RL1,U	"	0.0927	0.656	"	"	"	"	"
N-Nitrosodiphenylamine	ND	RL1,U	"	0.200	0.656	"	"	"	"	"
N-Nitrosopiperidine	ND	RL1,U	"	0.167	0.656	"	"	"	"	"
Pentachloronitrobenzene	ND	RL1,U	"	0.172	0.656	"	"	"	"	"
Pentachlorophenol	**1.76**	RL1	"	0.167	0.656	"	"	"	"	"
Phenacetin	ND	RL1,U	"	0.0902	0.656	"	"	"	"	"
Phenanthrene	**1.64**	RL1	"	0.193	0.656	"	"	"	"	"
Phenol	ND	RL1,U	"	0.0681	0.656	"	"	"	"	"
Pronamide	ND	RL1,U	"	0.218	0.656	"	"	"	"	"
Pyrene	**2.67**	RL1	"	0.142	0.656	"	"	"	"	"
Pyridine	ND	RL1,U	"	0.187	0.656	"	"	"	"	"
Surr: 2,4,6-Tribromophenol (40-120%)	*92 %*	*RL1*					"	"	"	"
Surr: 2-Fluorobiphenyl (45-120%)	*72 %*	*RL1*					"	"	"	"
Surr: 2-Fluorophenol (30-120%)	*59 %*	*RL1*					"	"	"	"
Surr: Nitrobenzene-d5 (35-120%)	*64 %*	*RL1*					"	"	"	"
Surr: Phenol-d6 (40-120%)	*63 %*	*RL1*					"	"	"	"
Surr: Terphenyl-d14 (40-130%)	*68 %*	*RL1*					"	"	"	"
Total Metals by SW 846 Series Methods										
Aluminum	**48600**		mg/kg	14.9	196	20	08/27/09 13:48	08/26/09	9H26011	SW6010B
Arsenic	**25.4**		"	0.393	4.91	5	08/27/09 13:43	"	"	"

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Department of Health, HEER Office 919 Ala Moana Boulevard, Room 206 Honolulu, HI 96814 Laura Young	Work Order: HSH0123 Project: Kohala Sugar Project Number: Kohala Sugar - PMA	Received: 08/20/09 Reported: 09/21/09 16:17	

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	MDL	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
Sample ID: HSH0123-06 (KPMA-DU-6 - Solid/Soil) - cont.						**Sampled: 08/18/09**			**Recvd: 08/20/09 14:30**	
Total Metals by SW 846 Series Methods - cont.										
Barium	**88.5**		"	0.413	9.82	"	"	"	"	"
Cadmium	**1.75**	RL1, J	"	0.398	4.91	"	"	"	"	"
Calcium	**4500**	B1, B	"	4.08	49.1	"	"	"	"	"
Chromium	**522**		"	1.43	19.6	20	08/27/09 13:48	"	"	"
Cobalt	**16.2**		"	0.290	4.91	5	08/27/09 13:43	"	"	"
Iron	**23300**		"	4.72	49.1	"	08/27/09 13:48	"	"	"
Lead	**124**		"	0.344	9.82	"	08/27/09 13:43	"	"	"
Magnesium	**2660**		"	3.78	49.1	"	"	"	"	"
Manganese	**944**		"	1.63	19.6	20	08/27/09 13:48	"	"	"
Mercury	**0.424**		"	0.000472	0.0236	5	08/27/09 16:53	08/27/09	9H27008	SW7471
Potassium	**1730**		"	4.67	49.1	"	08/27/09 13:43	08/26/09	9H26011	SW6010B
Selenium	**2.23**	RL1, J	"	0.442	9.82	"	"	"	"	"
Silver	ND	RL1, U	"	0.0344	4.91	"	"	"	"	"
Sodium	**327**	B	"	5.16	49.1	"	"	"	"	"
Thallium	**0.710**	RL1, J	"	0.147	4.91	"	"	"	"	"
Vanadium	**142**		"	0.349	4.91	"	"	"	"	"
Antimony	**7.89**	RL1, J	"	0.295	9.82	"	"	"	"	"
Beryllium	ND	RL1, U	"	0.308	9.82	"	"	"	"	"
Copper	**79.6**		"	0.383	9.82	"	"	"	"	SW 6010B
Nickel	**47.3**		"	0.393	9.82	"	"	"	"	SW6010B
Zinc	**426**		"	1.38	39.3	20	08/27/09 13:48	"	"	"

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Department of Health, HEER Office 919 Ala Moana Boulevard, Room 206 Honolulu, HI 96814 Laura Young	Work Order: HSH0123 Project: Kohala Sugar Project Number: Kohala Sugar - PMA	Received: 08/20/09 Reported: 09/21/09 16:17	

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
Sample ID: HSH0123-06 (KPMA-DU-6 - Solid/Soil) - cont.					**Sampled: 08/18/09**		**Recvd: 08/20/09 14:30**		
Organophosphorus Pesticides per EPA Method 8141A									
Azinphos methyl	ND	RL1	ug/kg wet	159	4	09/12/09 06:19	08/31/09	9081026	EPA 8141A
Bolstar	ND	RL1	"	159	"	"	"	"	"
Chlorpyrifos	ND	RL1	"	159	"	"	"	"	"
Coumaphos	ND	RL1	"	159	"	"	"	"	"
Demeton, Total (Qualitative Only)	ND	RL1	"	159	"	"	"	"	"
Diazinon	ND	RL1	"	159	"	"	"	"	"
Dichlorvos	ND	RL1	"	159	"	"	"	"	"
Dimethoate	ND	RL1	"	159	"	"	"	"	"
Disulfoton	ND	RL1	"	159	"	"	"	"	"
Ethoprop	ND	RL1	"	159	"	"	"	"	"
Fensulfothion	ND	RL1	"	159	"	"	"	"	"
EPN	ND	RL1	"	159	"	"	"	"	"
Fenthion	ND	RL1	"	159	"	"	"	"	"
Malathion	ND	RL1	"	159	"	"	"	"	"
Mevinphos	ND	RL1	"	159	"	"	"	"	"
Parathion-methyl	ND	RL1	"	159	"	"	"	"	"
Parathion-ethyl	ND	RL1	"	159	"	"	"	"	"
Phorate	ND	RL1	"	159	"	"	"	"	"
Ronnel	ND	RL1	"	159	"	"	"	"	"
Stirophos (Tetrachlorvinphos)	ND	RL1	"	159	"	"	"	"	"
Tokuthion (Prothiofos)	ND	RL1	"	159	"	"	"	"	"
Trichloronate	ND	RL1	"	159	"	"	"	"	"
Surr: TBP (40-140%)	*72.0 %*	*RL1,Z3*				"	"	"	"
Surr: TPP (35-145%)	*37.4 %*	*RL1,Z3*				"	"	"	"

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Laura Young

Work Order: HSH0123
Project: Kohala Sugar
Project Number: Kohala Sugar - PMA

Received: 08/20/09
Reported: 09/21/09 16:17

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Default Wt/Vol	Extracted Vol	Default Vol	Date	Analyst	Extraction Method
Organochlorine Pesticides/PCBs									
SW8081A	9H28001	HSH0123-01	30	30	10	10	08/28/09 08:01	MFP	SW 3550B GC
SW8081A	9H28001	HSH0123-02	30	30	10	10	08/28/09 08:01	MFP	SW 3550B GC
SW8081A	9H28001	HSH0123-03	30	30	10	10	08/28/09 08:01	MFP	SW 3550B GC
SW8081A	9H28001	HSH0123-04	30	30	10	10	08/28/09 08:01	MFP	SW 3550B GC
SW8081A	9H28001	HSH0123-05	30	30	10	10	08/28/09 08:01	MFP	SW 3550B GC
SW8081A	9H28001	HSH0123-06	30	30	10	10	08/28/09 08:01	MFP	SW 3550B GC
Semivolatile Organics by GC/MS									
SW8270C	9H31003	HSH0123-01	30	30	1	1	08/31/09 08:11	MFP	SW 3550B GCMS
SW8270C	9H31003	HSH0123-02	30	30	1	1	08/31/09 08:11	MFP	SW 3550B GCMS
SW8270C	9H31003	HSH0123-03	30	30	1	1	08/31/09 08:11	MFP	SW 3550B GCMS
SW8270C	9H31003	HSH0123-04	30	30	1	1	08/31/09 08:11	MFP	SW 3550B GCMS
SW8270C	9H31003	HSH0123-05	31	30	1	1	08/31/09 08:11	MFP	SW 3550B GCMS
SW8270C	9H31003	HSH0123-06	30	30	1	1	08/31/09 08:11	MFP	SW 3550B GCMS

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Work Order: HSH0123
Project: Kohala Sugar
Project Number: Kohala Sugar - PMA

Received: 08/20/09
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LABORATORY BLANK QC DATA

Analyte	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Organochlorine Pesticides/PCBs													
Batch\Seq: 9H28001 Extracted: 08/28/09													
Blank Analyzed: 08/28/2009 (9H28001-BLK1)													
4,4'-DDD			mg/kg	0.00110	0.00400	ND							Z1,U
4,4'-DDE			mg/kg	0.00100	0.00400	ND							U
4,4'-DDT			mg/kg	0.000700	0.00400	ND							U
Aldrin			mg/kg	0.00150	0.00400	ND							U
alpha-BHC			mg/kg	0.00180	0.00400	ND							U
beta-BHC			mg/kg	0.00170	0.00400	ND							U
Chlordane			mg/kg	0.0140	0.0330	ND							U
delta-BHC			mg/kg	0.00160	0.00400	ND							U
Dieldrin			mg/kg	0.00140	0.00400	ND							U
Endosulfan I			mg/kg	0.00150	0.00400	ND							U
Endosulfan II			mg/kg	0.000800	0.00400	ND							U
Endosulfan sulfate			mg/kg	0.00100	0.00400	ND							U
Endrin			mg/kg	0.00100	0.00400	ND							U
Endrin aldehyde			mg/kg	0.000700	0.00400	ND							U
Endrin ketone			mg/kg	0.00170	0.00400	ND							U
gamma-BHC (Lindane)			mg/kg	0.00120	0.00400	ND							U
Heptachlor			mg/kg	0.00140	0.00400	ND							U
Heptachlor epoxide			mg/kg	0.00110	0.00400	ND							U
Methoxychlor			mg/kg	0.00140	0.0200	ND							U
Toxaphene			mg/kg	0.0500	0.0500	ND							U
alpha-Chlordane			mg/kg	0.00180	0.00400	ND							U
gamma-Chlordane			mg/kg	0.00100	0.00400	ND							U
Surrogate: Decachlorobiphenyl			mg/kg					*104*		*45-120*			
Surrogate: Tetrachloro-meta-xylene			mg/kg					*93*		*50-120*			
Semivolatile Organics by GC/MS													
Batch\Seq: 9H31003 Extracted: 08/31/09													
Blank Analyzed: 09/02/2009 (9H31003-BLK1)													
1,2,4,5-Tetrachlorobenzene			mg/kg	0.320	0.330	ND							U
1,2,4-Trichlorobenzene			mg/kg	0.0865	0.330	ND							U
1,2-Dichlorobenzene			mg/kg	0.124	0.330	ND							U
1,3-Dichlorobenzene			mg/kg	0.131	0.330	ND							U
1,4-Dichlorobenzene			mg/kg	0.129	0.330	ND							U
1-Chloronaphthalene			mg/kg	0.100	0.330	ND							U
1-Methylnaphthalene			mg/kg	0.0560	0.330	ND							U
1-Naphthylamine			mg/kg	0.442	0.660	ND							U
2,3,4,6-Tetrachlorophenol			mg/kg	0.101	0.330	ND							U
2,4,5-Trichlorophenol			mg/kg	0.0960	0.330	ND							U
2,4,6-Trichlorophenol			mg/kg	0.0905	0.330	ND							U
2,4-Dichlorophenol			mg/kg	0.0740	0.330	ND							U
2,4-Dimethylphenol			mg/kg	0.0833	0.330	ND							U
2,4-Dinitrophenol			mg/kg	0.195	1.70	ND							U
2,4-Dinitrotoluene			mg/kg	0.132	0.330	ND							U
2,6-Dichlorophenol			mg/kg	0.0810	0.330	ND							U
2,6-Dinitrotoluene			mg/kg	0.0967	0.330	ND							U
2-Chloronaphthalene			mg/kg	0.0350	0.330	ND							U

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Laura Young

Work Order: HSH0123
Project: Kohala Sugar
Project Number: Kohala Sugar - PMA

Received: 08/20/09
Reported: 09/21/09 16:17

LABORATORY BLANK QC DATA

Analyte	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Semivolatile Organics by GC/MS													
Batch\Seq: 9H31003 Extracted: 08/31/09													
Blank Analyzed: 09/02/2009 (9H31003-BLK1)													
2-Chlorophenol			mg/kg	0.0737	0.330	ND						U	
2-Methylnaphthalene			mg/kg	0.0877	0.330	ND						U	
2-Methylphenol (o-Cresol)			mg/kg	0.0727	0.330	ND						U	
2-Naphthylamine			mg/kg	0.329	0.660	ND						U	
2-Nitroaniline			mg/kg	0.125	0.330	ND						U	
2-Nitrophenol			mg/kg	0.0417	0.330	ND						U	
2-Picoline			mg/kg	0.0766	0.330	ND						U	
3,3'-Dichlorobenzidine			mg/kg	0.0850	0.330	ND						U	
3,4-Methylphenol (m,p-Cresol)			mg/kg	0.0772	0.330	ND						U	
3-Methylcholanthrene			mg/kg	0.123	0.330	ND						U	
3-Nitroaniline			mg/kg	0.0941	0.330	ND						U	
4,6-Dinitro-2-methylphenol			mg/kg	0.0720	0.330	ND						U	
4-Aminobiphenyl			mg/kg	0.356	0.660	ND						U	
4-Bromophenyl phenyl ether			mg/kg	0.0900	0.330	ND						U	
4-Chloro-3-methylphenol			mg/kg	0.0927	0.330	ND						U	
4-Chloroaniline			mg/kg	0.0883	0.330	ND						U	
4-Chlorophenyl phenyl ether			mg/kg	0.0980	0.330	ND						U	
4-Nitroaniline			mg/kg	0.0995	0.330	ND						U	
4-Nitrophenol			mg/kg	0.0968	0.330	ND						U	
7,12-Dimethylbenz (a) anthracene			mg/kg	0.0907	0.330	ND						U	
a,a-Dimethylphenethylamine			mg/kg	0.00105	0.330	ND						U	
Acenaphthene			mg/kg	0.106	0.330	ND						U	
Acenaphthylene			mg/kg	0.102	0.330	ND						U	
Acetophenone			mg/kg	0.0415	0.330	ND						U	
Aniline			mg/kg	0.251	0.330	ND						U	
Anthracene			mg/kg	0.0886	0.330	ND						U	
Azobenzene			mg/kg	0.0412	0.330	ND						U	
Benzidine			mg/kg	0.258	1.70	ND						U	
Benzo (a) anthracene			mg/kg	0.0707	0.330	ND						U	
Benzo (a) pyrene			mg/kg	0.139	0.330	ND						U	
Benzo (b) fluoranthene			mg/kg	0.0385	0.330	ND						U	
Benzo (g,h,i) perylene			mg/kg	0.0377	0.330	ND						U	
Benzo (k) fluoranthene			mg/kg	0.123	0.330	ND						U	
Benzoic acid			mg/kg	0.168	0.330	ND						U	
Benzyl alcohol			mg/kg	0.0792	0.330	ND						U	
Bis(2-chloroethoxy)methane			mg/kg	0.0873	0.330	ND						U	
Bis(2-chloroethyl)ether			mg/kg	0.101	0.330	ND						U	
Bis(2-chloroisopropyl) ether			mg/kg	0.114	0.330	ND						U	
Bis(2-ethylhexyl)phthalate			mg/kg	0.0725	0.330	ND						U	
Butyl benzyl phthalate			mg/kg	0.159	0.330	ND						U	
Chrysene			mg/kg	0.0732	0.330	ND						U	
Dibenz (a,j) acridine			mg/kg	0.0488	0.330	ND						U	
Dibenzo (a,h) anthracene			mg/kg	0.0384	0.330	ND						U	
Dibenzofuran			mg/kg	0.0968	0.330	ND						U	
Diethyl phthalate			mg/kg	0.106	0.330	ND						U	
Dimethyl phthalate			mg/kg	0.102	0.330	ND						U	

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Work Order: HSH0123
Project: Kohala Sugar
Project Number: Kohala Sugar - PMA

Received: 08/20/09
Reported: 09/21/09 16:17

LABORATORY BLANK QC DATA

Analyte	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Semivolatile Organics by GC/MS													
Batch\Seq: 9H31003 Extracted: 08/31/09													
Blank Analyzed: 09/02/2009 (9H31003-BLK1)													
Dimethylaminoazobenzene			mg/kg	0.0712	0.330	ND							U
Di-n-butyl phthalate			mg/kg	0.102	0.330	ND							U
Di-n-octyl phthalate			mg/kg	0.0734	0.330	ND							U
Ethyl Methanesulfonate			mg/kg	0.0403	0.330	ND							U
Fluoranthene			mg/kg	0.0902	0.330	ND							U
Fluorene			mg/kg	0.105	0.330	ND							U
Hexachlorobenzene			mg/kg	0.0927	0.330	ND							U
Hexachlorobutadiene			mg/kg	0.104	0.330	ND							U
Hexachlorocyclopentadiene			mg/kg	0.116	0.330	ND							U
Hexachloroethane			mg/kg	0.139	0.330	ND							U
Indeno (1,2,3-cd) pyrene			mg/kg	0.0376	0.330	ND							U
Isophorone			mg/kg	0.0973	0.330	ND							U
Methyl Methanesulfonate			mg/kg	0.0432	0.330	ND							U
Naphthalene			mg/kg	0.0507	0.330	ND							U
Nitrobenzene			mg/kg	0.0479	0.330	ND							U
N-Nitrosodimethylamine			mg/kg	0.167	0.330	ND							U
N-Nitrosodi-n-butylamine			mg/kg	0.0939	0.330	ND							U
N-Nitrosodi-n-propylamine			mg/kg	0.0466	0.330	ND							U
N-Nitrosodiphenylamine			mg/kg	0.101	0.330	ND							U
N-Nitrosopiperidine			mg/kg	0.0839	0.330	ND							U
Pentachloronitrobenzene			mg/kg	0.0867	0.330	ND							U
Pentachlorophenol			mg/kg	0.0838	0.330	ND							U
Phenacetin			mg/kg	0.0454	0.330	ND							U
Phenanthrene			mg/kg	0.0973	0.330	ND							U
Phenol			mg/kg	0.0343	0.330	ND							U
Pronamide			mg/kg	0.110	0.330	ND							U
Pyrene			mg/kg	0.0715	0.330	ND							U
Pyridine			mg/kg	0.0940	0.330	ND							U
Surrogate: 2,4,6-Tribromophenol			mg/kg					*110*		*40-120*			
Surrogate: 2-Fluorobiphenyl			mg/kg					*69*		*45-120*			
Surrogate: 2-Fluorophenol			mg/kg					*52*		*30-120*			
Surrogate: Nitrobenzene-d5			mg/kg					*44*		*35-120*			
Surrogate: Phenol-d6			mg/kg					*60*		*40-120*			
Surrogate: Terphenyl-d14			mg/kg					*102*		*40-130*			
Total Metals by SW 846 Series Methods													
Batch\Seq: 9H26011 Extracted: 08/26/09													
Blank Analyzed: 08/27/2009 (9H26011-BLK1)													
Aluminum			mg/kg	0.760	10.0	2.78							J
Arsenic			mg/kg	0.0800	1.00	ND							U
Barium			mg/kg	0.0840	2.00	ND							U
Cadmium			mg/kg	0.0810	1.00	ND							U
Calcium			mg/kg	0.830	10.0	192							A-01,B1
Chromium			mg/kg	0.0730	1.00	ND							U
Cobalt			mg/kg	0.0590	1.00	ND							U
Iron			mg/kg	0.960	10.0	1.80							J

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Department of Health, HEER Office 919 Ala Moana Boulevard, Room 206 Honolulu, HI 96814 Laura Young	Work Order: HSH0123 Project: Kohala Sugar Project Number: Kohala Sugar - PMA	Received: 08/20/09 Reported: 09/21/09 16:17	

LABORATORY BLANK QC DATA

Analyte	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Total Metals by SW 846 Series Methods													
Batch\Seq: 9H26011 Extracted: 08/26/09													
Blank Analyzed: 08/27/2009 (9H26011-BLK1)													
Lead			mg/kg	0.0700	2.00	0.338							J
Magnesium			mg/kg	0.770	10.0	4.23							J
Manganese			mg/kg	0.0830	1.00	0.142							J
Potassium			mg/kg	0.950	10.0	1.22							J
Selenium			mg/kg	0.0900	2.00	ND							U
Silver			mg/kg	0.00700	1.00	ND							U
Sodium			mg/kg	1.05	10.0	253							B,A-01
Thallium			mg/kg	0.0300	1.00	0.0600							J
Vanadium			mg/kg	0.0710	1.00	ND							U
Antimony			mg/kg	0.0600	2.00	0.602							J
Beryllium			mg/kg	0.0627	2.00	ND							U
Copper			mg/kg	0.0780	2.00	0.500							J
Nickel			mg/kg	0.0800	2.00	ND							U
Zinc			mg/kg	0.0700	2.00	1.90							J
Batch\Seq: 9H27008 Extracted: 08/27/09													
Blank Analyzed: 08/27/2009 (9H27008-BLK1)													
Mercury			mg/kg	0.000100	0.00500	ND							U
Organophosphorus Pesticides per EPA Method 8141A													
Batch\Seq: 9081026 Extracted: 08/31/09													
Blank Analyzed: 09/11/2009 (9081026-BLK1)													
Azinphos methyl			ug/kg wet	N/A	40.0	ND							
Bolstar			ug/kg wet	N/A	40.0	ND							
Chlorpyrifos			ug/kg wet	N/A	40.0	ND							
Coumaphos			ug/kg wet	N/A	40.0	ND							
Demeton, Total (Qualitative Only)			ug/kg wet	N/A	40.0	ND							
Diazinon			ug/kg wet	N/A	40.0	ND							
Dichlorvos			ug/kg wet	N/A	40.0	ND							
Dimethoate			ug/kg wet	N/A	40.0	ND							
Disulfoton			ug/kg wet	N/A	40.0	ND							
Ethoprop			ug/kg wet	N/A	40.0	ND							
Fensulfothion			ug/kg wet	N/A	40.0	ND							
EPN			ug/kg wet	N/A	40.0	ND							
Fenthion			ug/kg wet	N/A	40.0	ND							
Malathion			ug/kg wet	N/A	40.0	ND							
Mevinphos			ug/kg wet	N/A	40.0	ND							
Parathion-methyl			ug/kg wet	N/A	40.0	ND							
Parathion-ethyl			ug/kg wet	N/A	40.0	ND							
Phorate			ug/kg wet	N/A	40.0	ND							
Ronnel			ug/kg wet	N/A	40.0	ND							
Stirophos (Tetrachlorvinphos)			ug/kg wet	N/A	40.0	ND							
Tokuthion (Prothiofos)			ug/kg wet	N/A	40.0	ND							
Trichloronate			ug/kg wet	N/A	40.0	ND							
Surrogate: TBP			ug/kg wet					*81*		*40-140*			
Surrogate: TPP			ug/kg wet					*73*		*35-145*			

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Work Order: HSH0123
Project: Kohala Sugar
Project Number: Kohala Sugar - PMA

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LABORATORY DUPLICATE QC DATA

Analyte	Source Result	Spike Level	Units	MDL	MRL	Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Organochlorine Pesticides/PCBs												
Batch\Seq: 9H28001 Extracted: 08/28/09												
Duplicate Analyzed: 08/28/2009 (9H28001-DUP1)				**QC Source Sample: HSH0123-01**								
4,4'-DDD	0.00785		mg/kg	0.00108	0.00393	0.00495				45	30	R3
4,4'-DDE	ND		mg/kg	0.000984	0.00393	0.0467					30	
4,4'-DDT	0.154		mg/kg	0.000689	0.00393	0.153				1	30	
Aldrin	ND		mg/kg	0.00148	0.00393	ND					30	U
alpha-BHC	ND		mg/kg	0.00177	0.00393	ND					30	U
beta-BHC	ND		mg/kg	0.00167	0.00393	ND					30	U
Chlordane	ND		mg/kg	0.0138	0.0325	ND					30	U
delta-BHC	0.0402		mg/kg	0.00157	0.00393	0.0382				5	30	
Dieldrin	ND		mg/kg	0.00138	0.00393	ND					30	U
Endosulfan I	ND		mg/kg	0.00148	0.00393	ND					30	U
Endosulfan II	0.00917		mg/kg	0.000787	0.00393	0.00623				38	30	R3
Endosulfan sulfate	0.00607		mg/kg	0.000984	0.00393	0.00462				27	30	
Endrin	ND		mg/kg	0.000984	0.00393	ND					30	U
Endrin aldehyde	0.00314		mg/kg	0.000689	0.00393	0.00157				66	30	R3,J
Endrin ketone	ND		mg/kg	0.00167	0.00393	ND					30	U
gamma-BHC (Lindane)	ND		mg/kg	0.00118	0.00393	ND					30	U
Heptachlor	ND		mg/kg	0.00138	0.00393	ND					30	U
Heptachlor epoxide	ND		mg/kg	0.00108	0.00393	ND					30	U
Methoxychlor	0.0302		mg/kg	0.00138	0.0197	0.0301				1	30	
Toxaphene	ND		mg/kg	0.0492	0.0492	ND					30	U
alpha-Chlordane	ND		mg/kg	0.00177	0.00393	ND					30	U
gamma-Chlordane	0.0365		mg/kg	0.000984	0.00393	ND					30	U
Surrogate: Decachlorobiphenyl			mg/kg				*1740*		*45-120*			Z1
Surrogate: Tetrachloro-meta-xylene			mg/kg				*81*		*50-120*			
Semivolatile Organics by GC/MS												
Batch\Seq: 9H31003 Extracted: 08/31/09												
Duplicate Analyzed: 09/02/2009 (9H31003-DUP1)				**QC Source Sample: HSH0123-01**								
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.632	0.651	ND					30	U
1,2,4-Trichlorobenzene	ND		mg/kg	0.171	0.651	ND					30	U
1,2-Dichlorobenzene	ND		mg/kg	0.245	0.651	ND					30	U
1,3-Dichlorobenzene	ND		mg/kg	0.258	0.651	ND					30	U
1,4-Dichlorobenzene	ND		mg/kg	0.254	0.651	ND					30	U
1-Chloronaphthalene	ND		mg/kg	0.198	0.651	ND					30	U
1-Methylnaphthalene	ND		mg/kg	0.111	0.651	ND					30	U
1-Naphthylamine	ND		mg/kg	0.873	1.30	ND					30	U
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.200	0.651	ND					30	U
2,4,5-Trichlorophenol	ND		mg/kg	0.189	0.651	ND					30	U
2,4,6-Trichlorophenol	ND		mg/kg	0.179	0.651	ND					30	U
2,4-Dichlorophenol	ND		mg/kg	0.146	0.651	ND					30	U
2,4-Dimethylphenol	ND		mg/kg	0.164	0.651	ND					30	U
2,4-Dinitrophenol	ND		mg/kg	0.384	3.36	ND					30	U
2,4-Dinitrotoluene	ND		mg/kg	0.261	0.651	ND					30	U
2,6-Dichlorophenol	ND		mg/kg	0.160	0.651	ND					30	U
2,6-Dinitrotoluene	ND		mg/kg	0.191	0.651	ND					30	U
2-Chloronaphthalene	ND		mg/kg	0.0691	0.651	ND					30	U

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Department of Health, HEER Office
919 Ala Moana Boulevard, Room 206
Honolulu, HI 96814
Laura Young

Work Order: HSH0123
Project: Kohala Sugar
Project Number: Kohala Sugar - PMA

Received: 08/20/09
Reported: 09/21/09 16:17

LABORATORY DUPLICATE QC DATA

Analyte	Source Result	Spike Level	Units	MDL	MRL	Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Semivolatile Organics by GC/MS												
Batch\Seq: 9H31003 Extracted: 08/31/09												
Duplicate Analyzed: 09/02/2009 (9H31003-DUP1)				**QC Source Sample: HSH0123-01**								
2-Chlorophenol	ND		mg/kg	0.146	0.651	ND					30	U
2-Methylnaphthalene	ND		mg/kg	0.173	0.651	ND					30	U
2-Methylphenol (o-Cresol)	ND		mg/kg	0.144	0.651	ND					30	U
2-Naphthylamine	ND		mg/kg	0.650	1.30	ND					30	U
2-Nitroaniline	ND		mg/kg	0.246	0.651	ND					30	U
2-Nitrophenol	ND		mg/kg	0.0823	0.651	ND					30	U
2-Picoline	ND		mg/kg	0.151	0.651	ND					30	U
3,3'-Dichlorobenzidine	ND		mg/kg	0.168	0.651	ND					30	U
3,4-Methylphenol (m,p-Cresol)	ND		mg/kg	0.152	0.651	ND					30	U
3-Methylcholanthrene	ND		mg/kg	0.243	0.651	ND					30	U
3-Nitroaniline	ND		mg/kg	0.186	0.651	ND					30	U
4,6-Dinitro-2-methylphenol	ND		mg/kg	0.142	0.651	ND					30	U
4-Aminobiphenyl	ND		mg/kg	0.703	1.30	ND					30	U
4-Bromophenyl phenyl ether	ND		mg/kg	0.178	0.651	ND					30	U
4-Chloro-3-methylphenol	ND		mg/kg	0.183	0.651	ND					30	U
4-Chloroaniline	ND		mg/kg	0.174	0.651	ND					30	U
4-Chlorophenyl phenyl ether	ND		mg/kg	0.194	0.651	ND					30	U
4-Nitroaniline	ND		mg/kg	0.196	0.651	ND					30	U
4-Nitrophenol	ND		mg/kg	0.191	0.651	ND					30	U
7,12-Dimethylbenz (a) anthracene	ND		mg/kg	0.179	0.651	ND					30	U
a,a-Dimethylphenethylamine	ND		mg/kg	0.00207	0.651	ND					30	U
Acenaphthene	ND		mg/kg	0.210	0.651	ND					30	U
Acenaphthylene	ND		mg/kg	0.200	0.651	ND					30	U
Acetophenone	ND		mg/kg	0.0819	0.651	ND					30	U
Aniline	ND		mg/kg	0.495	0.651	ND					30	U
Anthracene	0.184		mg/kg	0.175	0.651	ND					30	U
Azobenzene	ND		mg/kg	0.0813	0.651	ND					30	U
Benzidine	ND		mg/kg	0.509	3.36	ND					30	U
Benzo (a) anthracene	0.202		mg/kg	0.139	0.651	0.236				16	30	J
Benzo (a) pyrene	ND		mg/kg	0.275	0.651	0.286					30	J
Benzo (b) fluoranthene	0.366		mg/kg	0.0759	0.651	0.555				41	30	R2,J
Benzo (g,h,i) perylene	0.318		mg/kg	0.0745	0.651	0.393				21	30	J
Benzo (k) fluoranthene	0.391		mg/kg	0.242	0.651	0.593				41	30	R2,J
Benzoic acid	ND		mg/kg	0.331	0.651	ND					30	U
Benzyl alcohol	ND		mg/kg	0.156	0.651	ND					30	U
Bis(2-chloroethoxy)methane	ND		mg/kg	0.172	0.651	ND					30	U
Bis(2-chloroethyl)ether	ND		mg/kg	0.200	0.651	ND					30	U
Bis(2-chloroisopropyl) ether	ND		mg/kg	0.225	0.651	ND					30	U
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.143	0.651	ND					30	U
Butyl benzyl phthalate	ND		mg/kg	0.313	0.651	ND					30	U
Chrysene	0.295		mg/kg	0.145	0.651	0.508				53	30	R2,J
Dibenz (a,j) acridine	ND		mg/kg	0.0963	0.651	ND					30	U
Dibenzo (a,h) anthracene	0.0908		mg/kg	0.0758	0.651	0.109				18	30	J
Dibenzofuran	ND		mg/kg	0.191	0.651	ND					30	U
Diethyl phthalate	ND		mg/kg	0.210	0.651	ND					30	U
Dimethyl phthalate	ND		mg/kg	0.202	0.651	ND					30	U

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Department of Health, HEER Office 919 Ala Moana Boulevard, Room 206 Honolulu, HI 96814 Laura Young	Work Order: HSH0123 Project: Kohala Sugar Project Number: Kohala Sugar - PMA	Received: 08/20/09 Reported: 09/21/09 16:17	

LABORATORY DUPLICATE QC DATA

Analyte	Source Result	Spike Level	Units	MDL	MRL	Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Semivolatile Organics by GC/MS												
Batch\Seq: 9H31003 Extracted: 08/31/09												
Duplicate Analyzed: 09/02/2009 (9H31003-DUP1)				**QC Source Sample: HSH0123-01**								
Dimethylaminoazobenzene	ND		mg/kg	0.140	0.651	ND					30	U
Di-n-butyl phthalate	ND		mg/kg	0.202	0.651	ND					30	U
Di-n-octyl phthalate	ND		mg/kg	0.145	0.651	ND					30	U
Ethyl Methanesulfonate	ND		mg/kg	0.0796	0.651	ND					30	U
Fluoranthene	0.377		mg/kg	0.178	0.651	0.966				88	30	R2
Fluorene	ND		mg/kg	0.207	0.651	ND					30	U
Hexachlorobenzene	ND		mg/kg	0.183	0.651	ND					30	U
Hexachlorobutadiene	ND		mg/kg	0.205	0.651	ND					30	U
Hexachlorocyclopentadiene	ND		mg/kg	0.228	0.651	ND					30	U
Hexachloroethane	ND		mg/kg	0.275	0.651	ND					30	U
Indeno (1,2,3-cd) pyrene	0.161		mg/kg	0.0741	0.651	0.243				41	30	R2,J
Isophorone	ND		mg/kg	0.192	0.651	ND					30	U
Methyl Methanesulfonate	ND		mg/kg	0.0852	0.651	ND					30	U
Naphthalene	ND		mg/kg	0.100	0.651	ND					30	U
Nitrobenzene	ND		mg/kg	0.0945	0.651	ND					30	U
N-Nitrosodimethylamine	ND		mg/kg	0.330	0.651	ND					30	U
N-Nitrosodi-n-butylamine	ND		mg/kg	0.185	0.651	ND					30	U
N-Nitrosodi-n-propylamine	ND		mg/kg	0.0920	0.651	ND					30	U
N-Nitrosodiphenylamine	ND		mg/kg	0.199	0.651	ND					30	U
N-Nitrosopiperidine	ND		mg/kg	0.166	0.651	ND					30	U
Pentachloronitrobenzene	ND		mg/kg	0.171	0.651	ND					30	U
Pentachlorophenol	3.47		mg/kg	0.165	0.651	3.53				2	30	
Phenacetin	ND		mg/kg	0.0896	0.651	ND					30	U
Phenanthrene	ND		mg/kg	0.192	0.651	0.504					30	J
Phenol	ND		mg/kg	0.0677	0.651	ND					30	U
Pronamide	ND		mg/kg	0.217	0.651	ND					30	U
Pyrene	0.295		mg/kg	0.141	0.651	0.612				70	30	R2,J
Pyridine	ND		mg/kg	0.186	0.651	ND					30	U
Surrogate: 2,4,6-Tribromophenol			mg/kg				*107*		*40-120*			
Surrogate: 2-Fluorobiphenyl			mg/kg				*80*		*45-120*			
Surrogate: 2-Fluorophenol			mg/kg				*53*		*30-120*			
Surrogate: Nitrobenzene-d5			mg/kg				*56*		*35-120*			
Surrogate: Phenol-d6			mg/kg				*55*		*40-120*			
Surrogate: Terphenyl-d14			mg/kg				*87*		*40-130*			

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Work Order: HSH0123
Project: Kohala Sugar
Project Number: Kohala Sugar - PMA

Received: 08/20/09
Reported: 09/21/09 16:17

LCS/LCS DUPLICATE QC DATA

Analyte	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Organochlorine Pesticides/PCBs													
Batch\Seq: 9H28001 Extracted: 08/28/09													
LCS Analyzed: 08/28/2009 (9H28001-BS1)													
4,4'-DDD		0.0667	mg/kg	0.00110	0.00400	0.0605		91		35-140			
4,4'-DDE		0.0667	mg/kg	0.00100	0.00400	0.0631		95		55-125			
4,4'-DDT		0.0667	mg/kg	0.000700	0.00400	0.0603		90		55-135			
Aldrin		0.0667	mg/kg	0.00150	0.00400	0.0602		90		55-120			
alpha-BHC		0.0667	mg/kg	0.00180	0.00400	0.0584		88		55-125			
beta-BHC		0.0667	mg/kg	0.00170	0.00400	0.0583		87		55-125			
delta-BHC		0.0667	mg/kg	0.00160	0.00400	0.0647		97		50-135			
Dieldrin		0.0667	mg/kg	0.00140	0.00400	0.0630		95		60-125			
Endosulfan I		0.0667	mg/kg	0.00150	0.00400	0.0624		94		45-125			
Endosulfan II		0.0667	mg/kg	0.000800	0.00400	0.0630		94		55-120			
Endosulfan sulfate		0.0667	mg/kg	0.00100	0.00400	0.0549		82		50-120			
Endrin		0.0667	mg/kg	0.00100	0.00400	0.0521		78		60-125			
Endrin aldehyde		0.0667	mg/kg	0.000700	0.00400	0.0499		75		40-130			
Endrin ketone		0.0667	mg/kg	0.00170	0.00400	0.0626		94		55-125			
gamma-BHC (Lindane)		0.0667	mg/kg	0.00120	0.00400	0.0629		94		55-120			
Heptachlor		0.0667	mg/kg	0.00140	0.00400	0.0611		92		65-115			
Heptachlor epoxide		0.0667	mg/kg	0.00110	0.00400	0.0612		92		60-120			
Methoxychlor		0.0667	mg/kg	0.00140	0.0200	0.0662		99		55-135			
alpha-Chlordane		0.0667	mg/kg	0.00180	0.00400	0.0559		84		45-130			
gamma-Chlordane		0.0667	mg/kg	0.00100	0.00400	0.0552		83		55-120			
Surrogate: Decachlorobiphenyl			mg/kg					*92*		*45-120*			
Surrogate: Tetrachloro-meta-xylene			mg/kg					*92*		*50-120*			
Semivolatile Organics by GC/MS													
Batch\Seq: 9H31003 Extracted: 08/31/09													
LCS Analyzed: 09/06/2009 (9H31003-BS1)													
1,2,4,5-Tetrachlorobenzene			mg/kg	0.320	0.330	ND				60-120			U
1,2,4-Trichlorobenzene		1.67	mg/kg	0.0865	0.330	1.10		66		45-120			
1,2-Dichlorobenzene		1.67	mg/kg	0.124	0.330	0.710		43		45-120			L5
1,3-Dichlorobenzene		1.67	mg/kg	0.131	0.330	0.613		37		45-120			L5
1,4-Dichlorobenzene		1.67	mg/kg	0.129	0.330	0.627		38		50-120			L5
1-Methylnaphthalene			mg/kg	0.0560	0.330	ND				10-120			U
1-Naphthylamine			mg/kg	0.442	0.660	ND				30-120			U
2,3,4,6-Tetrachlorophenol			mg/kg	0.101	0.330	ND				60-120			U
2,4,5-Trichlorophenol		1.67	mg/kg	0.0960	0.330	1.43		86		50-120			
2,4,6-Trichlorophenol		1.67	mg/kg	0.0905	0.330	1.37		82		55-120			
2,4-Dichlorophenol		1.67	mg/kg	0.0740	0.330	1.29		77		50-120			
2,4-Dimethylphenol		1.67	mg/kg	0.0833	0.330	0.972		58		40-120			
2,4-Dinitrophenol		1.67	mg/kg	0.195	1.70	1.38		83		40-120			J
2,4-Dinitrotoluene		1.67	mg/kg	0.132	0.330	1.30		78		55-120			
2,6-Dichlorophenol			mg/kg	0.0810	0.330	ND				55-120			U
2,6-Dinitrotoluene		1.67	mg/kg	0.0967	0.330	1.43		86		60-120			
2-Chloronaphthalene		1.67	mg/kg	0.0350	0.330	1.12		67		45-120			
2-Chlorophenol		1.67	mg/kg	0.0737	0.330	0.902		54		45-120			
2-Methylnaphthalene		1.67	mg/kg	0.0877	0.330	1.23		74		50-120			
2-Methylphenol (o-Cresol)		1.67	mg/kg	0.0727	0.330	1.00		60		50-120			

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Department of Health, HEER Office
919 Ala Moana Boulevard, Room 206
Honolulu, HI 96814
Laura Young

Work Order: HSH0123
Project: Kohala Sugar
Project Number: Kohala Sugar - PMA

Received: 08/20/09
Reported: 09/21/09 16:17

LCS/LCS DUPLICATE QC DATA

Analyte	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Semivolatile Organics by GC/MS													
Batch\Seq: 9H31003 Extracted: 08/31/09													
LCS Analyzed: 09/06/2009 (9H31003-BS1)													
2-Naphthylamine			mg/kg	0.329	0.660	ND				30-120			U
2-Nitroaniline		1.67	mg/kg	0.125	0.330	1.35		81		60-120			
2-Nitrophenol		1.67	mg/kg	0.0417	0.330	1.20		72		50-120			
2-Picoline			mg/kg	0.0766	0.330	ND				10-120			U
3,3'-Dichlorobenzidine			mg/kg	0.0850	0.330	ND				55-120			U
3,4-Methylphenol (m,p-Cresol)		1.67	mg/kg	0.0772	0.330	1.04		62		45-120			
3-Methylcholanthrene			mg/kg	0.123	0.330	ND				60-120			U
3-Nitroaniline		1.67	mg/kg	0.0941	0.330	1.31		78		50-120			
4,6-Dinitro-2-methylphenol		1.67	mg/kg	0.0720	0.330	1.55		93		55-120			
4-Aminobiphenyl			mg/kg	0.356	0.660	ND				60-120			U
4-Bromophenyl phenyl ether		1.67	mg/kg	0.0900	0.330	1.48		89		60-120			
4-Chloro-3-methylphenol		1.67	mg/kg	0.0927	0.330	1.40		84		55-120			
4-Chloroaniline		1.67	mg/kg	0.0883	0.330	0.760		46		10-120			
4-Chlorophenyl phenyl ether		1.67	mg/kg	0.0980	0.330	1.38		83		55-120			
4-Nitroaniline		1.67	mg/kg	0.0995	0.330	1.45		87		60-120			
4-Nitrophenol		1.67	mg/kg	0.0968	0.330	1.48		89		45-120			
7,12-Dimethylbenz (a) anthracene			mg/kg	0.0907	0.330	ND				45-145			U
a,a-Dimethylphenethylamine			mg/kg	0.00105	0.330	0.00467				10-120			J
Acenaphthene		1.67	mg/kg	0.106	0.330	1.33		80		60-120			
Acenaphthylene		1.67	mg/kg	0.102	0.330	1.11		67		50-120			
Acetophenone			mg/kg	0.0415	0.330	ND				60-120			U
Aniline			mg/kg	0.251	0.330	ND				30-120			U
Anthracene		1.67	mg/kg	0.0886	0.330	1.46		87		60-120			
Azobenzene		1.67	mg/kg	0.0412	0.330	1.28		77		60-120			
Benzidine			mg/kg	0.258	1.70	ND				10-120			U
Benzo (a) anthracene		1.67	mg/kg	0.0707	0.330	1.47		88		65-120			
Benzo (a) pyrene		1.67	mg/kg	0.139	0.330	1.41		84		45-120			
Benzo (b) fluoranthene		1.67	mg/kg	0.0385	0.330	1.42		85		45-140			
Benzo (g,h,i) perylene		1.67	mg/kg	0.0377	0.330	1.32		79		55-140			
Benzo (k) fluoranthene		1.67	mg/kg	0.123	0.330	1.48		89		50-130			
Bis(2-chloroethoxy)methane		1.67	mg/kg	0.0873	0.330	1.18		71		45-120			
Bis(2-chloroethyl)ether		1.67	mg/kg	0.101	0.330	0.872		52		45-120			
Bis(2-chloroisopropyl) ether		1.67	mg/kg	0.114	0.330	0.904		54		40-120			
Bis(2-ethylhexyl)phthalate		1.67	mg/kg	0.0725	0.330	1.32		79		60-120			
Butyl benzyl phthalate		1.67	mg/kg	0.159	0.330	1.32		79		60-120			
Chrysene		1.67	mg/kg	0.0732	0.330	1.52		91		65-120			
Dibenz (a,j) acridine			mg/kg	0.0488	0.330	ND				10-150			U
Dibenzo (a,h) anthracene		1.67	mg/kg	0.0384	0.330	1.34		81		50-150			
Dibenzofuran		1.67	mg/kg	0.0968	0.330	1.32		79		55-120			
Diethyl phthalate		1.67	mg/kg	0.106	0.330	1.42		85		60-120			
Dimethyl phthalate		1.67	mg/kg	0.102	0.330	1.38		83		55-120			
Dimethylaminoazobenzene			mg/kg	0.0712	0.330	ND				60-120			U
Di-n-butyl phthalate		1.67	mg/kg	0.102	0.330	1.46		88		60-120			
Di-n-octyl phthalate		1.67	mg/kg	0.0734	0.330	1.27		76		60-120			
Ethyl Methanesulfonate			mg/kg	0.0403	0.330	ND				60-120			U
Fluoranthene		1.67	mg/kg	0.0902	0.330	1.61		97		60-120			

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Honolulu, HI 96814
Laura Young

Work Order: HSH0123
Project: Kohala Sugar
Project Number: Kohala Sugar - PMA

Received: 08/20/09
Reported: 09/21/09 16:17

LCS/LCS DUPLICATE QC DATA

Analyte	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Semivolatile Organics by GC/MS													
Batch\Seq: 9H31003 Extracted: 08/31/09													
LCS Analyzed: 09/06/2009 (9H31003-BS1)													
Fluorene		1.67	mg/kg	0.105	0.330	1.44		86		60-120			
Hexachlorobenzene		1.67	mg/kg	0.0927	0.330	1.58		95		60-120			
Hexachlorobutadiene		1.67	mg/kg	0.104	0.330	1.09		66		40-120			
Hexachlorocyclopentadiene		1.67	mg/kg	0.116	0.330	0.613		37		25-120			
Hexachloroethane		1.67	mg/kg	0.139	0.330	0.638		38		40-120			L5
Indeno (1,2,3-cd) pyrene		1.67	mg/kg	0.0376	0.330	1.36		82		50-120			
Isophorone		1.67	mg/kg	0.0973	0.330	1.01		61		50-120			
Methyl Methanesulfonate			mg/kg	0.0432	0.330	ND				50-120			U
Naphthalene		1.67	mg/kg	0.0507	0.330	1.08		65		50-120			
Nitrobenzene		1.67	mg/kg	0.0479	0.330	1.11		67		45-120			
N-Nitrosodimethylamine		1.67	mg/kg	0.167	0.330	0.642		39		35-120			
N-Nitrosodi-n-butylamine			mg/kg	0.0939	0.330	ND				60-120			U
N-Nitrosodi-n-propylamine		1.67	mg/kg	0.0466	0.330	1.16		69		40-120			
N-Nitrosodiphenylamine			mg/kg	0.101	0.330	ND				60-120			U
N-Nitrosopiperidine			mg/kg	0.0839	0.330	ND				65-120			U
Pentachloronitrobenzene			mg/kg	0.0867	0.330	ND				65-120			U
Pentachlorophenol		1.67	mg/kg	0.0838	0.330	1.93		116		50-120			
Phenacetin			mg/kg	0.0454	0.330	ND				65-120			U
Phenanthrene		1.67	mg/kg	0.0973	0.330	1.44		86		60-120			
Phenol		1.67	mg/kg	0.0343	0.330	0.943		57		45-120			
Pronamide			mg/kg	0.110	0.330	ND				50-120			U
Pyrene		1.67	mg/kg	0.0715	0.330	1.37		82		60-120			
Pyridine			mg/kg	0.0940	0.330	ND				10-120			U
Surrogate: 2,4,6-Tribromophenol			mg/kg					*102*		*40-120*			
Surrogate: 2-Fluorobiphenyl			mg/kg					*78*		*45-120*			
Surrogate: 2-Fluorophenol			mg/kg					*76*		*30-120*			
Surrogate: Nitrobenzene-d5			mg/kg					*73*		*35-120*			
Surrogate: Phenol-d6			mg/kg					*80*		*40-120*			
Surrogate: Terphenyl-d14			mg/kg					*87*		*40-130*			
Total Metals by SW 846 Series Methods													
Batch\Seq: 9H26011 Extracted: 08/26/09													
LCS Analyzed: 08/27/2009 (9H26011-BS1)													
Aluminum		1000	mg/kg	7.60	100	982		98		80-120			
Arsenic		100	mg/kg	0.800	10.0	104		104		80-120			
Barium		100	mg/kg	0.840	20.0	108		108		80-120			
Cadmium		100	mg/kg	0.810	10.0	102		102		80-120			
Calcium		1000	mg/kg	8.30	100	1660		166		80-120			L1,A-01,B
Chromium		100	mg/kg	0.730	10.0	93.9		94		80-120			
Cobalt		100	mg/kg	0.590	10.0	106		106		80-120			
Iron		1000	mg/kg	9.60	100	1100		110		80-120			
Lead		100	mg/kg	0.700	20.0	99.4		99		80-120			
Magnesium		1000	mg/kg	7.70	100	948		95		80-120			
Manganese		100	mg/kg	0.830	10.0	103		103		80-120			
Potassium		1000	mg/kg	9.50	100	954		95		80-120			
Selenium		100	mg/kg	0.900	20.0	99.5		99		80-120			

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919 Ala Moana Boulevard, Room 206
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Laura Young

Work Order: HSH0123
Project: Kohala Sugar
Project Number: Kohala Sugar - PMA

Received: 08/20/09
Reported: 09/21/09 16:17

LCS/LCS DUPLICATE QC DATA

Analyte	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Total Metals by SW 846 Series Methods													
Batch\Seq: 9H26011 Extracted: 08/26/09													
LCS Analyzed: 08/27/2009 (9H26011-BS1)													
Silver		10.0	mg/kg	0.0700	10.0	8.06		81		80-120			J
Sodium		1000	mg/kg	10.5	100	1570		157		80-120			A-01,L1,B
Thallium		100	mg/kg	0.300	10.0	97.0		97		80-120			
Vanadium		100	mg/kg	0.710	10.0	101		101		80-120			
Antimony		100	mg/kg	0.600	20.0	99.7		100		80-120			
Beryllium		100	mg/kg	0.627	20.0	98.8		99		80-120			
Copper		100	mg/kg	0.780	20.0	105		105		80-120			
Nickel		100	mg/kg	0.800	20.0	104		104		80-120			
Zinc		100	mg/kg	0.700	20.0	109		109		80-120			
Batch\Seq: 9H27008 Extracted: 08/27/09													
LCS Analyzed: 08/27/2009 (9H27008-BS1)													
Mercury		0.524	mg/kg	0.00100	0.0500	0.495		94		80-120			
Organophosphorus Pesticides per EPA Method 8141A													
Batch\Seq: 9081026 Extracted: 08/31/09													
LCS Analyzed: 09/11/2009 (9081026-BS1)													
Azinphos methyl		66.7	ug/kg wet	N/A	40.0	60.0		90		35-135			
Bolstar		66.7	ug/kg wet	N/A	40.0	50.5		76		45-125			
Chlorpyrifos		66.7	ug/kg wet	N/A	40.0	50.5		76		45-125			
Coumaphos		66.7	ug/kg wet	N/A	40.0	53.9		81		30-130			
Demeton, Total (Qualitative Only)		133	ug/kg wet	N/A	40.0	87.8		66		30-150			
Diazinon		66.7	ug/kg wet	N/A	40.0	51.4		77		50-110			
Dichlorvos		66.7	ug/kg wet	N/A	40.0	81.6		122		50-110			L
Dimethoate		66.7	ug/kg wet	N/A	40.0	79.4		119		55.5-102			L
Disulfoton		66.7	ug/kg wet	N/A	40.0	47.9		72		49.3-102			
Ethoprop		66.7	ug/kg wet	N/A	40.0	52.6		79		54.3-102			
Fensulfothion		66.7	ug/kg wet	N/A	40.0	68.4		103		58.8-113			
EPN		66.7	ug/kg wet	N/A	40.0	71.0		106		50.2-120			
Fenthion		66.7	ug/kg wet	N/A	40.0	55.8		84		53.8-107			
Malathion		66.7	ug/kg wet	N/A	40.0	57.5		86		50.2-104			
Mevinphos		66.7	ug/kg wet	N/A	40.0	52.2		78		46.5-107			
Parathion-methyl		66.7	ug/kg wet	N/A	40.0	51.0		77		35.6-102			
Parathion-ethyl		66.7	ug/kg wet	N/A	40.0	63.4		95		50.9-117			
Phorate		66.7	ug/kg wet	N/A	40.0	49.9		75		51.6-102			
Ronnel		66.7	ug/kg wet	N/A	40.0	49.0		73		34.7-95.4			
Stirophos (Tetrachlorvinphos)		66.7	ug/kg wet	N/A	40.0	47.8		72		53.5-111			
Tokuthion (Prothiofos)		66.7	ug/kg wet	N/A	40.0	51.6		78		54.7-115			
Trichloronate		66.7	ug/kg wet	N/A	40.0	52.6		79		61.1-106			
Surrogate: TBP			ug/kg wet					*88*		*40-140*			
Surrogate: TPP			ug/kg wet					*74*		*35-145*			

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Work Order: HSH0123
Project: Kohala Sugar
Project Number: Kohala Sugar - PMA

Received: 08/20/09
Reported: 09/21/09 16:17

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

Analyte	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Organochlorine Pesticides/PCBs													
Batch\Seq: 9H28001 Extracted: 08/28/09													
Matrix Spike Analyzed: 08/28/2009 (9H28001-MS1)				**QC Source Sample: HSH0123-01**									
4,4'-DDD	0.00785	0.0658	mg/kg	0.00109	0.00395	0.0547		71		35-140			
4,4'-DDE	ND	0.0658	mg/kg	0.000987	0.00395	0.102		156		55-125			M1
4,4'-DDT	0.154	0.0658	mg/kg	0.000691	0.00395	0.274		182		55-135			M1
Aldrin	ND	0.0658	mg/kg	0.00148	0.00395	0.0553		84		55-120			
alpha-BHC	ND	0.0658	mg/kg	0.00178	0.00395	0.0594		90		55-125			
beta-BHC	ND	0.0658	mg/kg	0.00168	0.00395	0.0848		129		55-125			M1
delta-BHC	0.0402	0.0658	mg/kg	0.00158	0.00395	0.0970		86		50-135			
Dieldrin	ND	0.0658	mg/kg	0.00138	0.00395	0.0520		79		60-125			
Endosulfan I	ND	0.0658	mg/kg	0.00148	0.00395	0.0454		69		45-125			
Endosulfan II	0.00917	0.0658	mg/kg	0.000789	0.00395	0.0644		84		55-120			
Endosulfan sulfate	0.00607	0.0658	mg/kg	0.000987	0.00395	0.0467		62		50-120			
Endrin	ND	0.0658	mg/kg	0.000987	0.00395	0.0499		76		60-125			
Endrin aldehyde	0.00314	0.0658	mg/kg	0.000691	0.00395	0.0418		59		40-130			
Endrin ketone	ND	0.0658	mg/kg	0.00168	0.00395	0.0558		85		55-125			
gamma-BHC (Lindane)	ND	0.0658	mg/kg	0.00118	0.00395	0.0964		146		55-120			M1
Heptachlor	ND	0.0658	mg/kg	0.00138	0.00395	0.0609		93		65-115			
Heptachlor epoxide	ND	0.0658	mg/kg	0.00109	0.00395	0.0590		90		60-120			
Methoxychlor	0.0302	0.0658	mg/kg	0.00138	0.0197	0.0450		22		55-135			M1
alpha-Chlordane	ND	0.0658	mg/kg	0.00178	0.00395	0.0395		60		45-130			
gamma-Chlordane	0.0365	0.0658	mg/kg	0.000987	0.00395	0.0351		-2		55-120			M1
Surrogate: Decachlorobiphenyl			mg/kg					*2210*		*45-120*			Z1
Surrogate: Tetrachloro-meta-xylene			mg/kg					*76*		*50-120*			
Semivolatile Organics by GC/MS													
Batch\Seq: 9H31003 Extracted: 08/31/09													
Matrix Spike Analyzed: 09/02/2009 (9H31003-MS1)				**QC Source Sample: HSH0123-01**									
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	1.57	1.62	ND				60-120			U
1,2,4-Trichlorobenzene	ND	1.64	mg/kg	0.425	1.62	2.11		129		45-120			M1
1,2-Dichlorobenzene	ND	1.64	mg/kg	0.610	1.62	1.25		76		45-120			J
1,3-Dichlorobenzene	ND	1.64	mg/kg	0.643	1.62	1.14		69		45-120			J
1,4-Dichlorobenzene	ND	1.64	mg/kg	0.632	1.62	1.17		71		50-120			J
1-Chloronaphthalene	ND		mg/kg	0.494	1.62	ND				55-120			U
1-Methylnaphthalene	ND		mg/kg	0.275	1.62	ND				10-120			U
1-Naphthylamine	ND		mg/kg	2.17	3.25	ND				30-120			U
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.499	1.62	ND				60-120			U
2,4,5-Trichlorophenol	ND	1.64	mg/kg	0.472	1.62	2.03		124		50-120			M1
2,4,6-Trichlorophenol	ND	1.64	mg/kg	0.445	1.62	2.00		122		55-120			M1
2,4-Dichlorophenol	ND	1.64	mg/kg	0.364	1.62	2.13		130		50-120			M1
2,4-Dimethylphenol	ND	1.64	mg/kg	0.409	1.62	0.872		53		40-120			J
2,4-Dinitrophenol	ND	1.64	mg/kg	0.958	8.36	ND				40-120			M1,U
2,4-Dinitrotoluene	ND	1.64	mg/kg	0.651	1.62	1.46		89		55-120			J
2,6-Dichlorophenol	ND		mg/kg	0.398	1.62	ND				55-120			U
2,6-Dinitrotoluene	ND	1.64	mg/kg	0.476	1.62	1.90		116		60-120			
2-Chloronaphthalene	ND	1.64	mg/kg	0.172	1.62	1.92		117		45-120			
2-Chlorophenol	ND	1.64	mg/kg	0.363	1.62	1.36		83		45-120			J
2-Methylnaphthalene	ND	1.64	mg/kg	0.431	1.62	2.27		138		50-120			M1

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Department of Health, HEER Office
919 Ala Moana Boulevard, Room 206
Honolulu, HI 96814
Laura Young

Work Order: HSH0123
Project: Kohala Sugar
Project Number: Kohala Sugar - PMA

Received: 08/20/09
Reported: 09/21/09 16:17

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

Analyte	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Semivolatile Organics by GC/MS													
Batch\Seq: 9H31003 Extracted: 08/31/09													
Matrix Spike Analyzed: 09/02/2009 (9H31003-MS1)				**QC Source Sample: HSH0123-01**									
2-Methylphenol (o-Cresol)	ND	1.64	mg/kg	0.358	1.62	1.22		74		50-120			J
2-Naphthylamine	ND		mg/kg	1.62	3.25	ND				30-120			U
2-Nitroaniline	ND	1.64	mg/kg	0.614	1.62	1.51		92		60-120			J
2-Nitrophenol	ND	1.64	mg/kg	0.205	1.62	1.44		88		50-120			J
2-Picoline	ND		mg/kg	0.377	1.62	ND				10-120			U
3,3'-Dichlorobenzidine	ND		mg/kg	0.418	1.62	ND				55-120			U
3,4-Methylphenol (m,p-Cresol)	ND	1.64	mg/kg	0.380	1.62	1.18		72		45-120			J
3-Methylcholanthrene	ND		mg/kg	0.605	1.62	ND				60-120			U
3-Nitroaniline	ND	1.64	mg/kg	0.463	1.62	0.595		36		50-120			M1,J
4,6-Dinitro-2-methylphenol	ND	1.64	mg/kg	0.354	1.62	1.59		97		55-120			J
4-Aminobiphenyl	ND		mg/kg	1.75	3.25	ND				60-120			U
4-Bromophenyl phenyl ether	ND	1.64	mg/kg	0.443	1.62	2.40		146		60-120			M1
4-Chloro-3-methylphenol	ND	1.64	mg/kg	0.456	1.62	1.90		116		55-120			
4-Chloroaniline	ND	1.64	mg/kg	0.434	1.62	ND				10-120			M1,U
4-Chlorophenyl phenyl ether	ND	1.64	mg/kg	0.482	1.62	2.46		150		55-120			M1
4-Nitroaniline	ND	1.64	mg/kg	0.489	1.62	0.821		50		60-120			M1,J
4-Nitrophenol	ND	1.64	mg/kg	0.476	1.62	ND				45-120			M1,U
7,12-Dimethylbenz (a) anthracene	ND		mg/kg	0.446	1.62	ND				45-145			U
a,a-Dimethylphenethylamine	ND		mg/kg	0.00515	1.62	ND				10-120			U
Acenaphthene	ND	1.64	mg/kg	0.524	1.62	2.20		134		60-120			M1
Acenaphthylene	ND	1.64	mg/kg	0.499	1.62	1.97		120		50-120			
Acetophenone	ND		mg/kg	0.204	1.62	ND				60-120			U
Aniline	ND		mg/kg	1.23	1.62	ND				30-120			U
Anthracene	0.184	1.64	mg/kg	0.436	1.62	2.58		146		60-120			M1
Azobenzene	ND	1.64	mg/kg	0.203	1.62	1.68		102		60-120			
Benzidine	ND		mg/kg	1.27	8.36	ND				10-120			U
Benzo (a) anthracene	0.202	1.64	mg/kg	0.348	1.62	2.64		149		65-120			M1
Benzo (a) pyrene	ND	1.64	mg/kg	0.686	1.62	2.43		148		45-120			M1
Benzo (b) fluoranthene	0.366	1.64	mg/kg	0.189	1.62	2.54		132		45-140			
Benzo (g,h,i) perylene	0.318	1.64	mg/kg	0.186	1.62	2.63		141		55-140			M1
Benzo (k) fluoranthene	0.391	1.64	mg/kg	0.603	1.62	2.38		121		50-130			
Bis(2-chloroethoxy)methane	ND	1.64	mg/kg	0.429	1.62	1.73		105		45-120			
Bis(2-chloroethyl)ether	ND	1.64	mg/kg	0.499	1.62	1.16		71		45-120			J
Bis(2-chloroisopropyl) ether	ND	1.64	mg/kg	0.560	1.62	1.31		80		40-120			J
Bis(2-ethylhexyl)phthalate	ND	1.64	mg/kg	0.357	1.62	2.09		127		60-120			M1
Butyl benzyl phthalate	ND	1.64	mg/kg	0.781	1.62	1.85		113		60-120			
Chrysene	0.295	1.64	mg/kg	0.360	1.62	2.60		141		65-120			M1
Dibenz (a,j) acridine	ND		mg/kg	0.240	1.62	ND				10-150			U
Dibenzo (a,h) anthracene	0.0908	1.64	mg/kg	0.189	1.62	2.32		136		50-150			
Dibenzofuran	ND	1.64	mg/kg	0.476	1.62	2.27		138		55-120			M1
Diethyl phthalate	ND	1.64	mg/kg	0.524	1.62	2.41		147		60-120			M1
Dimethyl phthalate	ND	1.64	mg/kg	0.504	1.62	2.20		134		55-120			M1
Dimethylaminoazobenzene	ND		mg/kg	0.350	1.62	ND				60-120			U
Di-n-butyl phthalate	ND	1.64	mg/kg	0.503	1.62	2.31		141		60-120			M1
Di-n-octyl phthalate	ND	1.64	mg/kg	0.361	1.62	2.03		124		60-120			M1
Ethyl Methanesulfonate	ND		mg/kg	0.198	1.62	ND				60-120			U

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Work Order: HSH0123
Project: Kohala Sugar
Project Number: Kohala Sugar - PMA

Received: 08/20/09
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MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

Analyte	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Semivolatile Organics by GC/MS													
Batch\Seq: 9H31003 Extracted: 08/31/09													
Matrix Spike Analyzed: 09/02/2009 (9H31003-MS1)				**QC Source Sample: HSH0123-01**									
Fluoranthene	0.377	1.64	mg/kg	0.444	1.62	3.30		178		60-120			M1
Fluorene	ND	1.64	mg/kg	0.517	1.62	2.59		158		60-120			M1
Hexachlorobenzene	ND	1.64	mg/kg	0.456	1.62	2.67		163		60-120			M1
Hexachlorobutadiene	ND	1.64	mg/kg	0.511	1.62	2.19		134		40-120			M1
Hexachlorocyclopentadiene	ND	1.64	mg/kg	0.569	1.62	ND				25-120			M1,U
Hexachloroethane	ND	1.64	mg/kg	0.684	1.62	1.07		65		40-120			J
Indeno (1,2,3-cd) pyrene	0.161	1.64	mg/kg	0.185	1.62	2.43		138		50-120			M1
Isophorone	ND	1.64	mg/kg	0.478	1.62	1.49		91		50-120			J
Methyl Methanesulfonate	ND		mg/kg	0.212	1.62	ND				50-120			U
Naphthalene	ND	1.64	mg/kg	0.249	1.62	1.92		117		50-120			
Nitrobenzene	ND	1.64	mg/kg	0.236	1.62	1.52		92		45-120			J
N-Nitrosodimethylamine	ND	1.64	mg/kg	0.822	1.62	ND				35-120			M1,U
N-Nitrosodi-n-butylamine	ND		mg/kg	0.462	1.62	ND				60-120			U
N-Nitrosodi-n-propylamine	ND	1.64	mg/kg	0.229	1.62	1.68		102		40-120			
N-Nitrosodiphenylamine	ND		mg/kg	0.495	1.62	ND				60-120			U
N-Nitrosopiperidine	ND		mg/kg	0.413	1.62	ND				65-120			U
Pentachloronitrobenzene	ND		mg/kg	0.427	1.62	ND				65-120			U
Pentachlorophenol	3.47	1.64	mg/kg	0.412	1.62	7.85		267		50-120			M1
Phenacetin	ND		mg/kg	0.223	1.62	ND				65-120			U
Phenanthrene	ND	1.64	mg/kg	0.479	1.62	2.40		147		60-120			M1
Phenol	ND	1.64	mg/kg	0.169	1.62	1.11		68		45-120			J
Pronamide	ND		mg/kg	0.540	1.62	ND				50-120			U
Pyrene	0.295	1.64	mg/kg	0.352	1.62	2.36		126		60-120			M1
Pyridine	ND		mg/kg	0.462	1.62	ND				10-120			U
Surrogate: 2,4,6-Tribromophenol			mg/kg					*162*		*40-120*			Z1
Surrogate: 2-Fluorobiphenyl			mg/kg					*128*		*45-120*			Z1
Surrogate: 2-Fluorophenol			mg/kg					*78*		*30-120*			
Surrogate: Nitrobenzene-d5			mg/kg					*95*		*35-120*			
Surrogate: Phenol-d6			mg/kg					*86*		*40-120*			
Surrogate: Terphenyl-d14			mg/kg					*128*		*40-130*			
Total Metals by SW 846 Series Methods													
Batch\Seq: 9H26011 Extracted: 08/26/09													
Matrix Spike Analyzed: 08/27/2009 (9H26011-MS1)				**QC Source Sample: HSH0123-01**									
Aluminum	59400	976	mg/kg	7.41	97.6	61600	56300	226	-313	80-120	9	20	M3
Arsenic	821	97.6	mg/kg	0.780	9.76	897	798	78	-24	80-120	12	20	M1
Barium	106	97.6	mg/kg	0.820	19.5	205	183	101	80	80-120	11	20	
Cadmium	2.93	97.6	mg/kg	0.790	9.76	88.0	80.6	87	80	80-120	9	20	
Calcium	4380	976	mg/kg	8.10	97.6	5900	5300	157	95	80-120	11	20	M1,B
Chromium	202	97.6	mg/kg	0.712	9.76	275	255	75	55	80-120	7	20	M1
Cobalt	17.1	97.6	mg/kg	0.576	9.76	110	99.6	95	85	80-120	10	20	
Iron	75600	976	mg/kg	9.37	97.6	69800	65000	-586	-1090	80-120	7	20	M3
Lead	210	97.6	mg/kg	0.683	19.5	250	198	41	-11	80-120	23	20	M1,R3
Magnesium	3310	976	mg/kg	7.51	97.6	4780	4220	150	93	80-120	12	20	M1
Manganese	823	97.6	mg/kg	0.810	9.76	880	805	58	-19	80-120	9	20	M3
Potassium	1350	976	mg/kg	9.27	97.6	2280	2120	96	79	80-120	7	20	M1

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MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

Analyte	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Total Metals by SW 846 Series Methods													
Batch\Seq: 9H26011 Extracted: 08/26/09													
Matrix Spike Analyzed: 08/27/2009 (9H26011-MS1)				**QC Source Sample: HSH0123-01**									
Selenium	2.44	97.6	mg/kg	0.878	19.5	62.4	55.9	61	55	80-120	11	20	M1
Silver	ND	9.76	mg/kg	0.0683	9.76	6.80	5.52	70	57	80-120	21	20	M1,J,R4
Sodium	356	976	mg/kg	10.2	97.6	1260	1150	93	81	80-120	9	20	B
Thallium	4.64	97.6	mg/kg	0.293	9.76	93.0	84.4	91	82	80-120	10	20	
Vanadium	140	97.6	mg/kg	0.693	9.76	244	219	107	81	80-120	11	20	
Antimony	25.1	97.6	mg/kg	0.585	19.5	59.2	51.2	35	27	80-120	14	20	M1
Beryllium	ND	97.6	mg/kg	0.612	19.5	81.6	73.9	84	76	80-120	10	20	M1
Copper	45.4	97.6	mg/kg	0.761	19.5	148	133	105	90	80-120	11	30	
Nickel	31.4	97.6	mg/kg	0.780	19.5	126	116	97	87	80-120	8	20	
Zinc	179	97.6	mg/kg	0.683	19.5	299	255	124	79	80-120	16	20	M1
Batch\Seq: 9H27008 Extracted: 08/27/09													
Matrix Spike Analyzed: 08/27/2009 (9H27008-MS1)				**QC Source Sample: HSH0123-01**									
Mercury	14.2	0.504	mg/kg	0.0192	0.962	12.6	11.1	-314	-629	75-125	13	20	MHA
Organophosphorus Pesticides per EPA Method 8141A													
Batch\Seq: 9081026 Extracted: 08/31/09													
Matrix Spike Analyzed: 09/11/2009 (9081026-MS1)				**QC Source Sample: HSH0123-01**									**M4**
Azinphos methyl	ND	65.7	ug/kg wet	N/A	158	14.9	ND	23		30-150		40	
Bolstar	ND	65.7	ug/kg wet	N/A	158	39.4	35.2	60	54	30-150	11	40	
Chlorpyrifos	ND	65.7	ug/kg wet	N/A	158	41.6	37.0	63	56	30-150	12	40	
Coumaphos	ND	65.7	ug/kg wet	N/A	158	17.2	ND	26		30-150		40	
Demeton, Total (Qualitative Only)	ND	131	ug/kg wet	N/A	158	56.8	42.4	43	32	30-150	29	40	
Diazinon	ND	65.7	ug/kg wet	N/A	158	48.6	37.9	74	58	30-150	25	40	
Dichlorvos	ND	65.7	ug/kg wet	N/A	158	36.0	27.5	55	42	30-150	27	40	
Dimethoate	ND	65.7	ug/kg wet	N/A	158	20.9	15.9	32	24	30-150	27	40	
Disulfoton	ND	65.7	ug/kg wet	N/A	158	41.0	32.4	62	49	30-150	23	40	
Ethoprop	ND	65.7	ug/kg wet	N/A	158	41.3	31.6	63	48	30-150	27	40	
Fensulfothion	ND	65.7	ug/kg wet	N/A	158	43.1	29.4	66	45	30-150	38	40	
EPN	ND	65.7	ug/kg wet	N/A	158	37.7	14.3	57	22	30-150	90	40	
Fenthion	ND	65.7	ug/kg wet	N/A	158	33.8	24.6	51	37	30-150	32	40	
Malathion	ND	65.7	ug/kg wet	N/A	158	27.5	20.2	42	31	30-150	31	40	
Mevinphos	ND	65.7	ug/kg wet	N/A	158	18.5	9.14	28	14	30-150	68	40	
Parathion-methyl	ND	65.7	ug/kg wet	N/A	158	17.1	11.3	26	17	30-150	41	40	
Parathion-ethyl	ND	65.7	ug/kg wet	N/A	158	35.4	21.3	54	32	30-150	50	40	
Phorate	ND	65.7	ug/kg wet	N/A	158	43.9	34.4	67	52	30-150	24	40	
Ronnel	ND	65.7	ug/kg wet	N/A	158	37.0	30.5	56	46	30-150	19	40	
Stirophos (Tetrachlorvinphos)	ND	65.7	ug/kg wet	N/A	158	24.0	12.2	37	19	30-150	65	40	
Tokuthion (Prothiofos)	ND	65.7	ug/kg wet	N/A	158	45.2	41.9	69	64	30-150	8	40	
Trichloronate	ND	65.7	ug/kg wet	N/A	158	47.2	43.1	72	66	30-150	9	40	
Surrogate: TBP			ug/kg wet					*75*	*63*	*40-140*			Z3
Surrogate: TPP			ug/kg wet					*38*	*25*	*35-145*			Z3
Matrix Spike Analyzed: 09/11/2009 (9081026-MS2)				**QC Source Sample: PSH0870-01**									**M4**
Azinphos methyl	ND	66.2	ug/kg wet	N/A	159	ND	39.3		59	30-150		40	
Bolstar	ND	66.2	ug/kg wet	N/A	159	21.5	44.5	33	67	30-150	70	40	
Chlorpyrifos	ND	66.2	ug/kg wet	N/A	159	27.4	41.5	42	63	30-150	41	40	
Coumaphos	ND	66.2	ug/kg wet	N/A	159	9.74	35.2	15	53	30-150		40	

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MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

Analyte	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Organophosphorus Pesticides per EPA Method 8141A													
Batch\Seq: 9081026 Extracted: 08/31/09													
Matrix Spike Analyzed: 09/11/2009 (9081026-MS2)				**QC Source Sample: PSH0870-01**									**M4**
Demeton, Total (Qualitative Only)	ND	132	ug/kg wet	N/A	159	32.1	61.9	24	47	30-150	63	40	
Diazinon	ND	66.2	ug/kg wet	N/A	159	32.4	42.7	49	65	30-150	27	40	
Dichlorvos	ND	66.2	ug/kg wet	N/A	159	14.9	36.8	23	56	30-150		40	
Dimethoate	ND	66.2	ug/kg wet	N/A	159	19.4	68.3	29	103	30-150		40	
Disulfoton	ND	66.2	ug/kg wet	N/A	159	26.3	38.8	40	59	30-150	38	40	
Ethoprop	ND	66.2	ug/kg wet	N/A	159	20.3	44.7	31	68	30-150	75	40	
Fensulfothion	ND	66.2	ug/kg wet	N/A	159	31.3	71.8	47	109	30-150	79	40	
EPN	ND	66.2	ug/kg wet	N/A	159	14.2	47.0	22	71	30-150		40	
Fenthion	ND	66.2	ug/kg wet	N/A	159	17.4	37.9	26	57	30-150		40	
Malathion	ND	66.2	ug/kg wet	N/A	159	13.6	40.1	21	61	30-150		40	
Mevinphos	ND	66.2	ug/kg wet	N/A	159	7.00	32.2	11	49	30-150		40	
Parathion-methyl	ND	66.2	ug/kg wet	N/A	159	9.21	39.5	14	60	30-150		40	
Parathion-ethyl	ND	66.2	ug/kg wet	N/A	159	16.8	47.0	25	71	30-150		40	
Phorate	ND	66.2	ug/kg wet	N/A	159	29.3	39.2	44	59	30-150	29	40	
Ronnel	ND	66.2	ug/kg wet	N/A	159	22.4	37.0	34	56	30-150	49	40	
Stirophos (Tetrachlorvinphos)	ND	66.2	ug/kg wet	N/A	159	11.0	28.0	17	42	30-150		40	
Tokuthion (Prothiofos)	ND	66.2	ug/kg wet	N/A	159	32.5	39.3	49	59	30-150	19	40	
Trichloronate	ND	66.2	ug/kg wet	N/A	159	37.1	44.4	56	67	30-150	18	40	
Surrogate: TBP			ug/kg wet					*48*	*75*	*40-140*			Z3
Surrogate: TPP			ug/kg wet					*20*	*53*	*35-145*			Z3
Matrix Spike Analyzed: 09/11/2009 (9081026-MS3)				**QC Source Sample: PSH0871-01**									**M4**
Azinphos methyl	ND	66.6	ug/kg wet	N/A	160	ND	27.2		42	30-150		40	
Bolstar	ND	66.6	ug/kg wet	N/A	160	34.7	45.1	52	69	30-150	26	40	
Chlorpyrifos	ND	66.6	ug/kg wet	N/A	160	42.5	44.1	64	68	30-150	4	40	
Coumaphos	ND	66.6	ug/kg wet	N/A	160	ND	24.6		38	30-150		40	
Demeton, Total (Qualitative Only)	ND	133	ug/kg wet	N/A	160	57.3	72.7	43	56	30-150	24	40	
Diazinon	ND	66.6	ug/kg wet	N/A	160	45.1	49.6	68	76	30-150	9	40	
Dichlorvos	ND	66.6	ug/kg wet	N/A	160	32.6	44.9	49	69	30-150	32	40	
Dimethoate	ND	66.6	ug/kg wet	N/A	160	22.7	35.0	34	54	30-150	42	40	
Disulfoton	ND	66.6	ug/kg wet	N/A	160	36.1	44.6	54	68	30-150	21	40	
Ethoprop	ND	66.6	ug/kg wet	N/A	160	36.6	43.6	55	67	30-150	17	40	
Fensulfothion	ND	66.6	ug/kg wet	N/A	160	37.0	51.0	56	78	30-150	32	40	
EPN	ND	66.6	ug/kg wet	N/A	160	42.8	43.9	64	67	30-150	2	40	
Fenthion	ND	66.6	ug/kg wet	N/A	160	29.9	39.3	45	60	30-150	27	40	
Malathion	ND	66.6	ug/kg wet	N/A	160	21.9	35.4	33	54	30-150	47	40	
Mevinphos	ND	66.6	ug/kg wet	N/A	160	13.9	24.3	21	37	30-150		40	
Parathion-methyl	ND	66.6	ug/kg wet	N/A	160	16.8	26.2	25	40	30-150		40	
Parathion-ethyl	ND	66.6	ug/kg wet	N/A	160	29.8	42.0	45	64	30-150	34	40	
Phorate	ND	66.6	ug/kg wet	N/A	160	40.6	45.1	61	69	30-150	10	40	
Ronnel	ND	66.6	ug/kg wet	N/A	160	34.9	40.8	52	62	30-150	16	40	
Stirophos (Tetrachlorvinphos)	ND	66.6	ug/kg wet	N/A	160	17.4	23.9	26	37	30-150		40	
Tokuthion (Prothiofos)	ND	66.6	ug/kg wet	N/A	160	45.3	48.9	68	75	30-150	8	40	
Trichloronate	ND	66.6	ug/kg wet	N/A	160	47.4	49.3	71	75	30-150	4	40	
Surrogate: TBP			ug/kg wet					*70*	*80*	*40-140*			Z3
Surrogate: TPP			ug/kg wet					*221*	*341*	*35-145*			ZX,Z3

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Department of Health, HEER Office 919 Ala Moana Boulevard, Room 206 Honolulu, HI 96814 Laura Young	Work Order: HSH0123 Project: Kohala Sugar Project Number: Kohala Sugar - PMA	Received: 08/20/09 Reported: 09/21/09 16:17	

CERTIFICATION SUMMARY

TestAmerica Honolulu

Method	Matrix	Nelac	Hawaii
SW 6010B	Solid/Soil	X	
SW6010B	Solid/Soil	X	
SW7471	Solid/Soil	X	
SW8081A	Solid/Soil		
SW8270C	Solid/Soil	X	

Subcontracted Laboratories

Anatek Labs.

1282 Alturas Dr. - Moscow, ID 83843

Analysis Performed: 8321 Carbamate Herbicides
Samples: HSH0123-01, HSH0123-02, HSH0123-03, HSH0123-04, HSH0123-05, HSH0123-06

TestAmerica Portland

Method Performed: EPA 8141A
Samples: HSH0123-01, HSH0123-02, HSH0123-03, HSH0123-04, HSH0123-05, HSH0123-06

STL - Seattle, WA

5755 8th Street East - Tacoma,, WA 98424

Analysis Performed: 8151 Herbicides
Samples: HSH0123-01, HSH0123-02, HSH0123-03, HSH0123-04, HSH0123-05, HSH0123-06

STL - Sacramento, CA

880 Riverside Parkway - West Sacramento, CA 95605

Analysis Performed: 8290 Dioxins - Furans
Samples: HSH0123-01, HSH0123-02, HSH0123-03, HSH0123-04, HSH0123-05, HSH0123-06

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Department of Health, HEER Office 919 Ala Moana Boulevard, Room 206 Honolulu, HI 96814 Laura Young	Work Order:	HSH0123		Received:	08/20/09
				Reported:	09/21/09 16:17
	Project:	Kohala Sugar			
	Project Number:	Kohala Sugar - PMA			

DATA QUALIFIERS AND DEFINITIONS

A-01	Failed due to glass bead contamination.
B	Analyte was detected in the associated Method Blank.
B1	Analyte was detected in the associated method blank. Analyte concentration in the sample is greater than 10x the concentration found in the method blank.
J	Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
L	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
L1	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above acceptance limits.
L5	Analyte recovery outside of specified criteria. Individual analyte criteria exceedences allowed for multi-component analyses without disqualification of data per NELAC Standard, DOD QSM and/or AFCEE QAPP.
M1	The MS and/or MSD were outside the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
M3	Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the Blank Spike (LCS).
M4	The sample required a dilution due to matrix interference. Because of this dilution, the matrix spike concentrations in the sample were reduced to a level where the recovery calculation does not provide useful information. See Blank Spike (LCS).
MHA	Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
R1	The RPD between the primary and confirmatory analysis exceeded 40% and the higher value was reported.
R10	The RPD between the primary and confirmatory analysis exceeded 40% and the lower value was reported.
R2	The RPD exceeded the acceptance limit.
R3	The RPD exceeded the acceptance limit due to sample matrix effects.
R4	Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
RL1	Reporting limit raised due to sample matrix effects.
U	Analyte included in the analysis, but not detected
Z	Due to sample matrix effects, the surrogate recovery was below the acceptance limits.
Z1	Surrogate recovery was above acceptance limits.
Z3	The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.
ZX	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.
ND	Not detected at the reporting limit (or method detection limit if shown)

ADDITIONAL COMMENTS

Results are reported on a wet weight basis unless otherwise noted.

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LABORATORY USE ONLY
LAB JOB NO. HSH0123
LOCATION
CONTAINERS

Chain of Custody / Analysis Request Form

Report to:	Laura Young
Company name	DOH · HEER
Address	919 Ala Moana Blvd #206
City	Honolulu
State	HI
ZIP	96814
Phone	808 586-4249
Fax	586-7537
Sampler	
# samples in shipment	6

Project identification

Job name	Kohala Sugar - PMA
Job number	
P.O. number	
Contact email address	Laura.Young@doh.hawaii.gov
Date results needed	STAT

Indicate analyses requested

Item no.	Client sample ID	COMP MS	GRAB	Matrix: Water	Soil	Wastewater	Drinking water	Sludge	Liquid	Solid	Oil	Other	Preservation method	Sampling: Date	Time	No. of containers	Metals 6010	SVOC 8270	Pesticides/Aroclors 8270/8280	Chlorinated Herbicides 8151A	Organochlorine Pest 8081A	Organophosphorus Pest 8141A	Carbamates - Diuron, Benomyl 8321			Laboratory ID no.
1	KPMA - DV-1	X			X									8/13/09		1	X	X	X	X	X	X	X			HSH0123-01
2	KPMA - DV-2															1										-02
3	KPMA - DV-3															1										-03
4	KPMA - DV-4													8/18/09		1										-04
5	KPMA - DV-5															1										-05
6	KPMA - DV-6															1										-06
7																										
8																										
9																										
10																										

Released by (print / sign)	Date / time released	Delivery method	Received by (print / sign)	Company / Agency affiliation	Date / time received	Condition noted
Laura Young / [signature]	8/20/09 1230	Hand	Samantha [signature]	TAH	8/20/09 1230	none 22-24
	/				/	
	/				/	

Comments: * Lab to follow Multi-increment Soil sample procedures

Please check one:
- ☐ Dispose by lab
- ☐ Return to client
- ☐ Archive

COC REV 06/2006 Distribution: White - TestAmerica Yellow - TestAmerica Pink - Client

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October 15, 2009

LABORATORY REPORT

Client:
Department of Health, HEER Office
919 Ala Moana Boulevard, Room 206
Honolulu, HI 96814
Attn: Accounts Payable

Work Order: HSI0112
Project Name: Bioavailable soil testing
Project Number: [none]
Date Received: 09/24/09

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Analytical Testing Corporation certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

The Chain(s) of Custody, 4 pages, are included and are an integral part of this report. This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(808)486-5227

Samples were received into laboratory at a temperature of 22 °C.

NELAC states that samples which require thermal preservation shall be considered acceptable if the arrival temperature is within 2 degrees C of the required temperature or the method specified range. For samples with a temperature requirement of 4 degrees C, an arrival temperature from 0 degrees C to 6 degrees C meets specifications. Samples that are delivered to the laboratory on the same day that they are collected may not meet these criteria. In these cases, the samples are considered acceptable if there is evidence that the chilling process has begun, such as arrival on ice.

The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

Approved By:

Marvin D. Heskett III
Laboratory Director

NELAC Certification # E87907

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Department of Health, HEER Office 919 Ala Moana Boulevard, Room 206 Honolulu, HI 96814 Accounts Payable	Work Order: HSI0112 Project: Bioavailable soil testing Project Number: [none]	Received: 09/24/09 Reported: 10/15/09 18:23	

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
KPMA-DU-1	HSI0112-01	08/17/09
KPMA-DU-2	HSI0112-02	08/17/09
KPMA-DU-5	HSI0112-03	08/18/09
HSC-DU-1	HSI0112-04	07/29/09 10:00
HSC-DU-2	HSI0112-05	07/29/09 10:00
HSC-DU-5	HSI0112-06	07/29/09 11:00
HSC-DU-6	HSI0112-07	07/29/09 15:30

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Department of Health, HEER Office 919 Ala Moana Boulevard, Room 206 Honolulu, HI 96814 Accounts Payable	Work Order: HSI0112 Project: Bioavailable soil testing Project Number: [none]	Received: 09/24/09 Reported: 10/15/09 18:23	

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
Sample ID: HSI0112-01 (KPMA-DU-1 - Solid/Soil)					**Sampled: 08/17/09**		**Recvd: 09/24/09 15:16**		
Bio-available Metals									
Arsenic Bio-accessible	**234**		mg/kg	1.00	1	10/05/09 10:26	10/02/09	9J02012	SBRC Rev 8
Arsenic Bio-accessible percent	**18.0**		% by Weight	0.200	"	"	"	"	"
Arsenic Total	**1300**		mg/kg	8.33	10	10/01/09 15:19	09/30/09	9I30009	6010B
Sample ID: HSI0112-02 (KPMA-DU-2 - Solid/Soil)					**Sampled: 08/17/09**		**Recvd: 09/24/09 15:16**		
Bio-available Metals									
Arsenic Bio-accessible	**197**		mg/kg	1.00	1	10/05/09 10:26	10/02/09	9J02012	SBRC Rev 8
Arsenic Bio-accessible percent	**16.1**		% by Weight	0.200	"	"	"	"	"
Arsenic Total	**1220**		mg/kg	7.46	10	10/01/09 15:24	09/30/09	9I30009	6010B
Sample ID: HSI0112-03 (KPMA-DU-5 - Solid/Soil)					**Sampled: 08/18/09**		**Recvd: 09/24/09 15:16**		
Bio-available Metals									
Arsenic Bio-accessible	ND		mg/kg	1.00	1	10/05/09 10:26	10/02/09	9J02012	SBRC Rev 8
Arsenic Bio-accessible percent	**1.26**		% by Weight	0.200	"	"	"	"	"
Arsenic Total	**46.4**		mg/kg	7.14	10	10/01/09 15:28	09/30/09	9I30009	6010B
Sample ID: HSI0112-04 (HSC-DU-1 - Solid/Soil)					**Sampled: 07/29/09 10:00**		**Recvd: 09/24/09 15:16**		
Bio-available Metals									
Arsenic Bio-accessible	**73.5**		mg/kg	1.00	1	10/05/09 10:26	10/02/09	9J02012	SBRC Rev 8
Arsenic Bio-accessible percent	**4.59**		% by Weight	0.200	"	"	"	"	"
Arsenic Total	**1600**		mg/kg	7.81	10	10/01/09 15:33	09/30/09	9I30009	6010B
Sample ID: HSI0112-05 (HSC-DU-2 - Solid/Soil)					**Sampled: 07/29/09 10:00**		**Recvd: 09/24/09 15:16**		
Bio-available Metals									
Arsenic Bio-accessible	**2.94**		mg/kg	1.00	1	10/05/09 10:26	10/02/09	9J02012	SBRC Rev 8
Arsenic Bio-accessible percent	**0.500**		% by Weight	0.200	"	"	"	"	"
Arsenic Total	**587**		mg/kg	6.76	10	10/01/09 15:38	09/30/09	9I30009	6010B
Sample ID: HSI0112-06 (HSC-DU-5 - Solid/Soil)					**Sampled: 07/29/09 11:00**		**Recvd: 09/24/09 15:16**		
Bio-available Metals									
Arsenic Bio-accessible	**7.28**		mg/kg	1.00	1	10/05/09 10:26	10/02/09	9J02012	SBRC Rev 8
Arsenic Bio-accessible percent	**0.880**		% by Weight	0.200	"	"	"	"	"
Arsenic Total	**827**		mg/kg	7.46	10	10/01/09 18:13	09/30/09	9I30009	6010B
Sample ID: HSI0112-07 (HSC-DU-6 - Solid/Soil)					**Sampled: 07/29/09 15:30**		**Recvd: 09/24/09 15:16**		
Bio-available Metals									
Arsenic Bio-accessible	**6.18**		mg/kg	1.00	1	10/05/09 10:26	10/02/09	9J02012	SBRC Rev 8
Arsenic Bio-accessible percent	**4.15**		% by Weight	0.200	"	"	"	"	"
Arsenic Total	**149**		mg/kg	8.85	10	10/01/09 18:18	09/30/09	9I30009	6010B

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Department of Health, HEER Office 919 Ala Moana Boulevard, Room 206 Honolulu, HI 96814 Accounts Payable	Work Order: HSI0112 Project: Bioavailable soil testing Project Number: [none]	Received: 09/24/09 Reported: 10/15/09 18:23	

LABORATORY BLANK QC DATA

Analyte	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Bio-available Metals													
Batch\Seq: 9I30009 Extracted: 09/30/09													
Blank Analyzed: 10/01/2009 (9I30009-BLK1)													
Arsenic Total			mg/kg	N/A	1.00	ND							

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Department of Health, HEER Office 919 Ala Moana Boulevard, Room 206 Honolulu, HI 96814 Accounts Payable	Work Order: HSI0112 Project: Bioavailable soil testing Project Number: [none]	Received: 09/24/09 Reported: 10/15/09 18:23	

LCS/LCS DUPLICATE QC DATA

Analyte	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Bio-available Metals													
Batch\Seq: 9I30009 Extracted: 09/30/09													
LCS Analyzed: 10/01/2009 (9I30009-BS1)													
Arsenic Total		100	mg/kg	N/A	1.00	95.5		95		80-120			

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Department of Health, HEER Office 919 Ala Moana Boulevard, Room 206 Honolulu, HI 96814 Accounts Payable	Work Order: HSI0112 Project: Bioavailable soil testing Project Number: [none]	Received: 09/24/09 Reported: 10/15/09 18:23	

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

Analyte	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Bio-available Metals													
Batch\Seq: 9I30009 Extracted: 09/30/09													
Matrix Spike Analyzed: 10/01/2009 (9I30009-MS1)				**QC Source Sample: HSI0112-04**									
Arsenic Total	1600	79.4	mg/kg	N/A	7.94	1700	1690	125	120	80-120	0	20	M1

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Department of Health, HEER Office 919 Ala Moana Boulevard, Room 206 Honolulu, HI 96814 Accounts Payable	Work Order: HSI0112 Project: Bioavailable soil testing Project Number: [none]	Received: 09/24/09 Reported: 10/15/09 18:23	

CERTIFICATION SUMMARY

TestAmerica Honolulu

Method	Matrix	Nelac	Hawaii
6010B	Solid/Soil	X	
SBRC Rev 8	Solid/Soil		

Subcontracted Laboratories

University of Colorado - Boulder

2200 Colorado ave. Benson Earth Science, University of Colorado - Boulder, CO 80309

Analysis Performed: Incremental Subsample Pass-through

Samples: HSI0112-01, HSI0112-02, HSI0112-03, HSI0112-04, HSI0112-05, HSI0112-06, HSI0112-07

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DATA QUALIFIERS AND DEFINITIONS

M1 The MS and/or MSD were outside the acceptance limits due to sample matrix interference. See Blank Spike (LCS).

ND Not detected at the reporting limit (or method detection limit if shown)

ADDITIONAL COMMENTS

New (Relogged) Workorder Number: HS10112

REQUEST TO RELOG SAMPLES

(Please submit to sample control with a copy of the COC)

CLIENT: DOH HEER MATRIX: MI Soil

PREVIOUSLY LOGGED SAMPLES

[X] TAT Change status to: 10 day
Change status as of Day: 9/24/2009 Time: 3:16 PM

[ ] CHANGE ANALYSES

Add Analyses [X] Cancel Analyses [ ]

Project Work Order #: varies

Sample Number	Analyses	New Sample Number
HSH0123-01; 02; 05	Incremental Fine Sieve	HS10112-01, -02, -03
HSH0002-01; 02; 05; 06	Incremental Pass Through - Univ of Colorado	-04, -05, -06, -07
NA	PBET Arsenic group	
NA	MI 1g PBET Metals	
NA	MI 110g TCLP - Remaining 250um fraction	
NA	NA	
NA	NA	
NA	NA	

SAMPLES ON HOLD

Sample Description	Analyses	New Sample Number
NA	NA	
NA	NA	
NA	NA	
NA	NA	
NA	NA	
NA	NA	
NA	NA	
NA	NA	
NA	NA	

Client Authorization (Person/Date/Time): DOH HEER Laura Young 9/24/2009 3:16 PM

Project Manager: Marvin Heskett

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LABORATORY USE ONLY
LAB JOB NO. HSH0123
LOCATION
CONTAINERS

Chain of Custody / Analysis Request Form

Report to: Laura Young
Company name: DOH - HEER
Address: 919 Ala Moana Blvd #206
City: Honolulu State: HI ZIP: 96814
Phone: 808 586-4249 Fax: 586-7537
Sampler: # samples in shipment: 6

Project identification
Job name: Kohala Sugar - PMA
Job number:
P.O. number:
Contact email address: Laura.Young@doh.hawaii.gov
Date results needed: STAT

Indicate analyses requested

Item no.	Client sample ID	COMP	GRAB	Matrix: Water	Soil	Wastewater	Drinking water	Sludge	Liquid	Solid	Oil	Other	Preservation method	Sampling: Date	Time	No. of containers	Metals 6010	SVOC 8270	Dioxin/Furans 8290/8280	Chlorinated Herbicides 8151A	Organochlorine Pest 8081A	Organophosphorus Pest 8141A	Carbamates - Diuron, Benomyl 8321			Laboratory ID no.
1	KPMA - DV-1	X			X									8/13/09		1	X	X	X	X	X	X	X			HSH0123-01
2	KPMA - DV-2															1										-02
3	KPMA - DV-3															1										-03
4	KPMA - DV-4													8/18/09		1										-04
5	KPMA - DV-5															1										-05
6	KPMA - DV-6															1										-06
7																										
8																										
9																										
10																										

Released by (print / sign)	Date / time released	Delivery method	Received by (print / sign)	Company / Agency affiliation	Date / time received	Condition noted
Laura Young / [signature]	8/20/09 2:30	Hand	Samantha [signature]	TAH	8/20/09 2:30	none 22-24
	/				/	
	/				/	

Comments: * Lab to follow multi-increment soil sample procedures

Please check one:
☐ Dispose by lab
☐ Return to client
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COC REV 06/2006 Distribution: White - TestAmerica Yellow - TestAmerica Pink - Client

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LABORATORY USE ONLY
LAB JOB NO. HSH0002
LOCATION
CONTAINERS

Chain of Custody / Analysis Request Form

Report to: Laura Young - SOH, DOH HEER
Company name: HEER Office
Address: 919 Ala Moana Blvd Rm 206
City: Honolulu State: HI ZIP: 96814
Phone: 586-4249 Fax: 586-7537
Sampler:
samples in shipment: 6

Project identification
Job name: Hilo Sugar Co. PMA
Job number:
P.O. number:
Contact email address: Laura.Young@DOH.Hawaii.gov
Date results needed: STAT

Indicate analyses requested

Item no.	Client sample ID	COMP	GRAB	Matrix: Water	Soil	Wastewater	Drinking water	Sludge	Liquid	Solid	Oil	Other	Preservation method	Sampling: Date	Time	No. of containers	Dioxin/Furans 8280/8290	Metals 6010	Mercury 7471	Organochlorine Pest. 8081A	Organophosphorus Pest. 8141A	Chlorinated Herb. 8151A	SVOC 8270	Carbamates 8321 - Tumor Benomyl Carbaryl/Mx	Laboratory ID no.
1	HSC-DU-1		X		X									7/29/09	10:00am	1	■	■	■	■	■	■	■	■	HSH0002-01
2	HSC-DU-2		X		X									↓	10:00am	1	↓	↓	↓	↓	↓	↓	↓	↓	-02
3	HSC-DU-3		X		X									↓	10:35am	1	↓	↓	↓	↓	↓	↓	↓	↓	-03
4	HSC-DU-4		X		X									↓	10:40am	1	↓	↓	↓	↓	↓	↓	↓	↓	-04
5	HSC-DU-5		X		X									↓	11:00am	1	↓	↓	↓	↓	↓	↓	↓	↓	-05
6	HSC-DU-6		X		X									↓	3:30pm	1	↓	↓	↓	↓	↓	↓	↓	↓	-06
7																									
8																									
9																									
10																									

Released by (print / sign)	Date / time released	Delivery method	Received by (print / sign)	Company / Agency affiliation	Date / time received	Condition noted
Laura Young / [signature]	7/31/09 17:50		[signature]	TA Hon	7/31/09 1250	8 cooler 20-23°C
	/				/	No Rec
	/				/	

Comments: * - LAB TO FOLLOW - MULTI-INCREMENT SAMPLE PROCEDURES

Please check one:
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Page 1 of 1

COC REV 06/2008 Distribution: White - TestAmerica Yellow - TestAmerica Pink - Client

Heskett, Marvin

From: Young, Laura L [laura.young@doh.hawaii.gov]
Sent: Thursday, September 24, 2009 10:05 AM
To: Heskett, Marvin
Subject: Request for Bioaccessibility Studies on Arsenic samples
Follow Up Flag: Follow up
Flag Status: Red

Good Morning Marvin,

Follow-up from yesterday afternoons conversation, the sample numbers are

Kohala Sugar Co.
HSH0123-01
HSH0123-02
HSH0123-05

Hilo Sugar Co.
HSH0002-01
HSH0002-02
HSH0002-05
HSH0002-06

We would like bioaccessibilitystudies to be conducted by TestAmerica and Drexler. John should be calling regarding any details. Please call me if you need any clarifications.

Could you please send me an estimate of the costs.

Thanks,
Laura

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

September 16, 2009

TestAmerica Project Number: G9H280270
PO/Contract: HSH0123

Marvin Heskett
TestAmerica - Honolulu
RL Cushing Building
99-193 Aiea Heights Dr
Aiea, HI 96701

Dear Mr. Heskett,

This report contains the analytical results for the samples received under chain of custody by TestAmerica on August 28, 2009. These samples are associated with your HSH0123 project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4383.

Sincerely,

David R. Alltucker
Project Manager

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TestAmerica West Sacramento Project Number G9H280270

Case Narrative

Quality Assurance Program

Sample Description Information

Chain of Custody Documentation

SOLID, 8290, Dioxins/Furans
Samples: 1, 2, 3, 4, 5, 6
- Sample Data Sheets
- Method Blank Report
- Laboratory QC Reports

Case Narrative

TestAmerica West Sacramento Project Number G9H280270

SOLID, 8290, Dioxins/Furans-incremental
Sample(s): 1, 2, 3, 4, 5, 6
The result for 2, 3, 7, 8-TCDF is reported from the confirmation analysis that occurred on September 11, 2009.

The required Dilutions (D) for some isomers. All dilution are reported from analysis on September 12, 2009. All isomers that are reported from the dilution will be flagged with a “D” flag.

The 13C-OCDD internal standard in all the samples and 13C-1,2,3,4,6,7,8-HpCDF in sample 6 have ion abundance ratios outside of acceptance criteria. The theoretical areas for the internal standards were used to quantitate the recoveries and to quantitate related target analytes. There is no impact on the data quality as a result of this anomaly.

Sample(s): 4, 5, 6
The internal standard recovery of 13C-OCDD in the samples is above the method recommended goal of 135%. The high recovery can be attributed to contribution from the high native OCDD present in these samples.

Sample(s): 1, 2, 4, 5, 6
The concentrations of several analytes in the sample exceeded the upper quantitation level of the initial calibration curve, but the peaks did not saturate the instrument detector. Historical data indicates that for the isotope dilution method, dilution and re-analysis will not produce significantly different results from those reported with the 'E" qualifier.

There were no other anomalies associated with this project.

TestAmerica Laboratories West Sacramento Certifications/Accreditations

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	New York*	11666
Arizona	AZ0708	Oregon*	CA 200005
Arkansas	88-0691	Pennsylvania	68-1272
California*	01119CA	South Carolina	87014
Colorado	NA	Texas	T104704399-08-TX
Connecticut	PH-0691	Utah*	QUAN1
Florida*	E87570	Virginia	00178
Georgia	960	Washington	C1281
Hawaii	NA	West Virginia	9930C, 334
Illinois	200060	Wisconsin	998204680
Kansas*	E-10375	NFESC	NA
Louisiana*	30612	USACE	NA
Michigan	9947	USDA Foreign Plant	37-82605
Nevada	CA44	USDA Foreign Soil	P330-09-00055
New Jersey*	CA005	US Fish & Wildlife	LE148388-0
New Mexico	NA	Guam	NA

*NELAP accredited. A more detailed parameter list is available upon request. Updated 3/25/2009

QC Parameter Definitions

QC Batch: The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

Method Blank: An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD): An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also be used to evaluate the precision of the process.

Duplicate Sample (DU): Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

Surrogates: Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

Matrix Spike and Matrix Spike Duplicate (MS/MSD): An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

Isotope Dilution: For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

Control Limits: The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

Sample Summary

TestAmerica West Sacramento Project Number G9H280270

WO#	Sample #	Client Sample ID	Sampling Date	Received Date
LJ1K1	1	HSH0123-01	8/17/2009	8/28/2009 09:00 AM
LJ1K3	2	HSH0123-02	8/17/2009	8/28/2009 09:00 AM
LJ1K4	3	HSH0123-03	8/17/2009	8/28/2009 09:00 AM
LJ1K9	4	HSH0123-04	8/17/2009	8/28/2009 09:00 AM
LJ1LA	5	HSH0123-05	8/17/2009	8/28/2009 09:00 AM
LJ1LC	6	HSH0123-06	8/17/2009	8/28/2009 09:00 AM

Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as “ND” were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

SUBCONTRACT ORDER

TestAmerica Honolulu

HSH0123

SENDING LABORATORY:

TestAmerica Honolulu
99-193 Aiea Heights Drive, Suite 121
Aiea, HI 96701
Phone: 808-486-5227
Fax: 808-486-2456
Project Manager: Marvin D. Heskett III
Client: Department of Health, HEER Office

RECEIVING LABORATORY:

TestAmerica West Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Phone :(916) 373-5600
Fax: (916) 372-1059
Project Location: HI - HAWAII
Receipt Temperature: 5 °C Ice: (Y) / N

Analysis	Units	Due	Expires	Interlab Price	Surch	Comments
Sample ID: HSH0123-01	**Solid/Soil**		Sampled: **08/17/09 00:00**			
8290 Dioxins - Furans	%	09/01/09	02/13/10 00:00	$650.00	0%	
Containers Supplied: Incremental Sub-sample (analyze entire content) (E)	3x Digest tube					
Sample ID: HSH0123-02	**Solid/Soil**		Sampled: **08/17/09 00:00**			
8290 Dioxins - Furans	%	09/01/09	02/13/10 00:00	$650.00	0%	
Containers Supplied: Incremental Sub-sample (analyze entire content) (E)	2x Digest tube					
Sample ID: HSH0123-03	**Solid/Soil**		Sampled: **08/17/09 00:00**			
8290 Dioxins - Furans	%	09/01/09	02/13/10 00:00	$650.00	0%	
Containers Supplied: Incremental Sub-sample (analyze entire content) (E)	"	"				
Sample ID: HSH0123-04	**Solid/Soil**		Sampled: **08/18/09 00:00**			
8290 Dioxins - Furans	%	09/01/09	02/14/10 00:00	$650.00	0%	
Containers Supplied: Incremental Sub-sample (analyze entire content) (E)	"	"				
Sample ID: HSH0123-05	**Solid/Soil**		Sampled: **08/18/09 00:00**			
8290 Dioxins - Furans	%	09/01/09	02/14/10 00:00	$650.00	0%	
Containers Supplied: Incremental Sub-sample (analyze entire content) (E)	"	"				

Released By	Date/Time	Received By	Date/Time
[illegible]	8/27/09	Chang Vue	8/28/09 - 0900

SUBCONTRACT ORDER

TestAmerica Honolulu

HSH0123

Analysis	Units	Due	Expires	Interlab Price	Surch	Comments
Sample ID: HSH0123-06	**Solid/Soil**		Sampled: **08/18/09 00:00**			
8290 Dioxins - Furans	%	09/01/09	02/14/10 00:00	$650.00	0%	
Containers Supplied:						
Incremental Sub-sample (analyze entire content) (E)	2x Digest tube					

TestAmerica
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LOT RECEIPT CHECKLIST
TestAmerica West Sacramento

CLIENT TAL- Honolulu PM DA LOG # 60360

LOT# (QUANTIMS ID) G9H280270 QUOTE# 73910 LOCATION W18A

		Initials	Date
DATE RECEIVED 8/28/09 TIME RECEIVED 0900		CV	8/28/09
DELIVERED BY	☑ FEDEX ☐ CA OVERNIGHT ☐ CLIENT ☐ AIRBORNE ☐ GOLDENSTATE ☐ DHL ☐ UPS ☐ BAX GLOBAL ☐ GO-GETTERS ☐ TAL COURIER ☐ VALLEY LOGISTICS ☐ MORGAN HILL COURIER ☐ OTHER		
CUSTODY SEAL STATUS	☐ INTACT ☐ BROKEN ☑ N/A		
CUSTODY SEAL #(S)			
SHIPPPING CONTAINER(S)	☑ TAL ☐ CLIENT ☐ N/A		
TEMPERTURE RECORD (IN °C)	IR 4 ☐ 5 ☑ ☐ OTHER		
COC #(S)			
TEMPERATURE BLANK	Observed: ✓ Corrected:		
SAMPLE TEMPERATURE Observed: 5 5 5	Average: 5 Corrected Average: 5		
COLLECTOR'S NAME:	☐ Verified from COC ☑ Not on COC		
pH MEASURED	☐ YES ☐ ANOMALY ☑ N/A		
LABELED BY			
LABELS CHECKED BY			
PEER REVIEW	☑ NA		
SHORT HOLD TEST NOTIFICATION	SAMPLE RECEIVING		
	WETCHEM ☑ N/A		
	VOA-ENCORES ☑ N/A		
☐ METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL	☑ N/A		
☑ COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES	☐ N/A		
☐ CLOUSEAU	☐ TEMPERATURE EXCEEDED (2 °C – 6 °C)*1 ☑ N/A		

☐ WET ICE ☐ BLUE ICE ☐ GEL PACK ☐ NO COOLING AGENTS USED ☐ PM NOTIFIED

Notes:

*1 Acceptable temperature range for State of Wisconsin samples is≤4°C.

LEAVE NO SPACES BLANK. USE "N/A" IF NOT APPLICABLE.

QA-185 4/09 RKE

TestAmerica West Sacramento

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Bottle Lot Inventory

Lot ID: G9H280270

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VOA*																				
VOAh*																				
AGB																				
AGBs																				
250AGB																				
250AGBs																				
250AGBn																				
500AGB																				
____AGJ																				
500AGJ																				
250AGJ																				
125AGJ																				
____CGJ																				
500CGJ																				
250CGJ																				
125CGJ																				
125 PJ	3	2	2	2	2	2														
PJn																				
500PJ																				
500PJn																				
500PJna																				
500PJzn/na																				
250PJ																				
250PJn																				
250PJna																				
250PJzn/na																				
Acetate Tube																				
_____"CT																				
Encore																				
Folder/filter																				
PUF																				
Petri/Filter																				
XAD Trap																				
Ziploc																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

h = hydrochloric acid **s** = sulfuric acid **na** = sodium hydroxide **n** = nitric acid **zn** = zinc acetate

Number of VOAs with air bubbles present / total number of VOA's

QA-185 4/09 RKE

LEAVE NO SPACES BLANK. USE "NA" IF NOT APPLICABLE.

SOLID, 8290, Dioxins/Furans

TestAmerica Honolulu

Client Sample ID: HSH0123-01

Trace Level Organic Compounds

Lot-Sample #...: G9H280270-001 **Work Order #...:** LJ1K11AC **Matrix.....:** SOLID
Date Sampled...: 08/17/09 **Date Received..:** 08/28/09
Prep Date.....: 09/02/09 **Analysis Date..:** 09/10/09
Prep Batch #...: 9245147
Dilution Factor: 0.98
% Moisture.....:

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	**450 E**		**pg/g**	**SW846 8290**
Total TCDD	**1100**		**pg/g**	**SW846 8290**
1,2,3,7,8-PeCDD	**1400**		**pg/g**	**SW846 8290**
Total PeCDD	**3700**		**pg/g**	**SW846 8290**
1,2,3,4,7,8-HxCDD	**2100 D**		**pg/g**	**SW846 8290**
1,2,3,6,7,8-HxCDD	**19000 D**		**pg/g**	**SW846 8290**
1,2,3,7,8,9-HxCDD	**4500 D**		**pg/g**	**SW846 8290**
Total HxCDD	**64000**		**pg/g**	**SW846 8290**
1,2,3,4,6,7,8-HpCDD	**350000 E,D**		**pg/g**	**SW846 8290**
Total HpCDD	**660000**		**pg/g**	**SW846 8290**
OCDD	**1200000 E,D**		**pg/g**	**SW846 8290**
2,3,7,8-TCDF	**42 CON**		**pg/g**	**SW846 8290**
Total TCDF	**1500**		**pg/g**	**SW846 8290**
1,2,3,7,8-PeCDF	**160**		**pg/g**	**SW846 8290**
2,3,4,7,8-PeCDF	**190**		**pg/g**	**SW846 8290**
Total PeCDF	**4800**		**pg/g**	**SW846 8290**
1,2,3,4,7,8-HxCDF	**3400 D**		**pg/g**	**SW846 8290**
1,2,3,6,7,8-HxCDF	**1700 D**		**pg/g**	**SW846 8290**
2,3,4,6,7,8-HxCDF	**1500 D**		**pg/g**	**SW846 8290**
1,2,3,7,8,9-HxCDF	ND	54	pg/g	SW846 8290
Total HxCDF	**150000**		**pg/g**	**SW846 8290**
1,2,3,4,6,7,8-HpCDF	**140000 D**		**pg/g**	**SW846 8290**
1,2,3,4,7,8,9-HpCDF	**7500 D**		**pg/g**	**SW846 8290**
Total HpCDF	**660000**		**pg/g**	**SW846 8290**
OCDF	**250000 D**		**pg/g**	**SW846 8290**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	95	(40 - 135)
13C-1,2,3,7,8-PeCDD	103	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	73	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	57	(40 - 135)
13C-OCDD	78	(40 - 135)
13C-2,3,7,8-TCDF	98	(40 - 135)
13C-1,2,3,7,8-PeCDF	102	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	80	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	75	(40 - 135)

NOTE(S):

E Estimated result. Result concentration exceeds the calibration range.

D Result was obtained from the analysis of a dilution.

CON Confirmation analysis.

TestAmerica Honolulu

Client Sample ID: HSH0123-02

Trace Level Organic Compounds

Lot-Sample #...: G9H280270-002 **Work Order #...:** LJ1K31AC **Matrix.....:** SOLID
Date Sampled...: 08/17/09 **Date Received..:** 08/28/09
Prep Date.....: 09/02/09 **Analysis Date..:** 09/10/09
Prep Batch #...: 9245147
Dilution Factor: 0.98
% Moisture.....:

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	**260**		**pg/g**	**SW846 8290**
Total TCDD	**430**		**pg/g**	**SW846 8290**
1,2,3,7,8-PeCDD	**440**		**pg/g**	**SW846 8290**
Total PeCDD	**1300**		**pg/g**	**SW846 8290**
1,2,3,4,7,8-HxCDD	**970 D**		**pg/g**	**SW846 8290**
1,2,3,6,7,8-HxCDD	**12000 D**		**pg/g**	**SW846 8290**
1,2,3,7,8,9-HxCDD	**2200 D**		**pg/g**	**SW846 8290**
Total HxCDD	**47000**		**pg/g**	**SW846 8290**
1,2,3,4,6,7,8-HpCDD	**260000 E,D**		**pg/g**	**SW846 8290**
Total HpCDD	**510000**		**pg/g**	**SW846 8290**
OCDD	**1100000 E,D**		**pg/g**	**SW846 8290**
2,3,7,8-TCDF	**16 CON**		**pg/g**	**SW846 8290**
Total TCDF	**2200**		**pg/g**	**SW846 8290**
1,2,3,7,8-PeCDF	**96**		**pg/g**	**SW846 8290**
2,3,4,7,8-PeCDF	**150**		**pg/g**	**SW846 8290**
Total PeCDF	**6400**		**pg/g**	**SW846 8290**
1,2,3,4,7,8-HxCDF	**4700 D**		**pg/g**	**SW846 8290**
1,2,3,6,7,8-HxCDF	**1300 D**		**pg/g**	**SW846 8290**
2,3,4,6,7,8-HxCDF	**1100 D**		**pg/g**	**SW846 8290**
1,2,3,7,8,9-HxCDF	ND	31	pg/g	SW846 8290
Total HxCDF	**130000**		**pg/g**	**SW846 8290**
1,2,3,4,6,7,8-HpCDF	**93000 D**		**pg/g**	**SW846 8290**
1,2,3,4,7,8,9-HpCDF	**7600 D**		**pg/g**	**SW846 8290**
Total HpCDF	**500000**		**pg/g**	**SW846 8290**
OCDF	**520000 E,D**		**pg/g**	**SW846 8290**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	104	(40 - 135)
13C-1,2,3,7,8-PeCDD	110	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	107	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	93	(40 - 135)
13C-OCDD	43	(40 - 135)
13C-2,3,7,8-TCDF	110	(40 - 135)
13C-1,2,3,7,8-PeCDF	111	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	126	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	121	(40 - 135)

NOTE(S):

D Result was obtained from the analysis of a dilution.

E Estimated result. Result concentration exceeds the calibration range.

CON Confirmation analysis.

TestAmerica Honolulu

Client Sample ID: HSH0123-03

Trace Level Organic Compounds

Lot-Sample #...: G9H280270-003 **Work Order #...:** LJ1K41AC **Matrix.....:** SOLID
Date Sampled...: 08/17/09 **Date Received..:** 08/28/09
Prep Date.....: 09/02/09 **Analysis Date..:** 09/10/09
Prep Batch #...: 9245147
Dilution Factor: 0.96
% Moisture.....:

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	**120**		**pg/g**	**SW846 8290**
Total TCDD	**140**		**pg/g**	**SW846 8290**
1,2,3,7,8-PeCDD	**13**		**pg/g**	**SW846 8290**
Total PeCDD	**34**		**pg/g**	**SW846 8290**
1,2,3,4,7,8-HxCDD	**37**		**pg/g**	**SW846 8290**
1,2,3,6,7,8-HxCDD	**150**		**pg/g**	**SW846 8290**
1,2,3,7,8,9-HxCDD	**80**		**pg/g**	**SW846 8290**
Total HxCDD	**820**		**pg/g**	**SW846 8290**
1,2,3,4,6,7,8-HpCDD	**4900 D**		**pg/g**	**SW846 8290**
Total HpCDD	**9900**		**pg/g**	**SW846 8290**
OCDD	**50000 D**		**pg/g**	**SW846 8290**
2,3,7,8-TCDF	**2.3 CON**		**pg/g**	**SW846 8290**
Total TCDF	**21**		**pg/g**	**SW846 8290**
1,2,3,7,8-PeCDF	ND	1.8	pg/g	SW846 8290
2,3,4,7,8-PeCDF	ND	2.3	pg/g	SW846 8290
Total PeCDF	**47**		**pg/g**	**SW846 8290**
1,2,3,4,7,8-HxCDF	**35**		**pg/g**	**SW846 8290**
1,2,3,6,7,8-HxCDF	**18**		**pg/g**	**SW846 8290**
2,3,4,6,7,8-HxCDF	**20**		**pg/g**	**SW846 8290**
1,2,3,7,8,9-HxCDF	ND	0.56	pg/g	SW846 8290
Total HxCDF	**1200**		**pg/g**	**SW846 8290**
1,2,3,4,6,7,8-HpCDF	**1400**		**pg/g**	**SW846 8290**
1,2,3,4,7,8,9-HpCDF	**100**		**pg/g**	**SW846 8290**
Total HpCDF	**5500**		**pg/g**	**SW846 8290**
OCDF	**4500 D**		**pg/g**	**SW846 8290**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	78	(40 - 135)
13C-1,2,3,7,8-PeCDD	88	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	74	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	89	(40 - 135)
13C-OCDD	94	(40 - 135)
13C-2,3,7,8-TCDF	80	(40 - 135)
13C-1,2,3,7,8-PeCDF	90	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	86	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	78	(40 - 135)

NOTE(S):

D Result was obtained from the analysis of a dilution.

CON Confirmation analysis.

TestAmerica Honolulu

Client Sample ID: HSH0123-04

Trace Level Organic Compounds

Lot-Sample #...: G9H280270-004 **Work Order #...:** LJ1K91AC **Matrix.....:** SOLID
Date Sampled...: 08/17/09 **Date Received..:** 08/28/09
Prep Date.....: 09/02/09 **Analysis Date..:** 09/10/09
Prep Batch #...: 9245147
Dilution Factor: 0.98
% Moisture.....:

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	**79**		**pg/g**	**SW846 8290**
Total TCDD	**110**		**pg/g**	**SW846 8290**
1,2,3,7,8-PeCDD	**38**		**pg/g**	**SW846 8290**
Total PeCDD	**140**		**pg/g**	**SW846 8290**
1,2,3,4,7,8-HxCDD	**91**		**pg/g**	**SW846 8290**
1,2,3,6,7,8-HxCDD	**730**		**pg/g**	**SW846 8290**
1,2,3,7,8,9-HxCDD	**240**		**pg/g**	**SW846 8290**
Total HxCDD	**4400**		**pg/g**	**SW846 8290**
1,2,3,4,6,7,8-HpCDD	**27000 D**		**pg/g**	**SW846 8290**
Total HpCDD	**70000**		**pg/g**	**SW846 8290**
OCDD	**230000 E,D**		**pg/g**	**SW846 8290**
2,3,7,8-TCDF	**3.1 CON**		**pg/g**	**SW846 8290**
Total TCDF	**63**		**pg/g**	**SW846 8290**
1,2,3,7,8-PeCDF	**5.8**		**pg/g**	**SW846 8290**
2,3,4,7,8-PeCDF	**7.6**		**pg/g**	**SW846 8290**
Total PeCDF	**160**		**pg/g**	**SW846 8290**
1,2,3,4,7,8-HxCDF	**120**		**pg/g**	**SW846 8290**
1,2,3,6,7,8-HxCDF	**57**		**pg/g**	**SW846 8290**
2,3,4,6,7,8-HxCDF	**46**		**pg/g**	**SW846 8290**
1,2,3,7,8,9-HxCDF	ND	2.3	pg/g	SW846 8290
Total HxCDF	**4600**		**pg/g**	**SW846 8290**
1,2,3,4,6,7,8-HpCDF	**6600 D**		**pg/g**	**SW846 8290**
1,2,3,4,7,8,9-HpCDF	**350 D**		**pg/g**	**SW846 8290**
Total HpCDF	**33000**		**pg/g**	**SW846 8290**
OCDF	**13000 D**		**pg/g**	**SW846 8290**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	90	(40 - 135)
13C-1,2,3,7,8-PeCDD	96	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	79	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	109	(40 - 135)
13C-OCDD	170 *	(40 - 135)
13C-2,3,7,8-TCDF	96	(40 - 135)
13C-1,2,3,7,8-PeCDF	98	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	99	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	105	(40 - 135)

(Continued on next page)

TestAmerica Honolulu

Client Sample ID: HSH0123-04

Trace Level Organic Compounds

Lot-Sample #...: G9H280270-004 **Work Order #...:** LJ1K91AC **Matrix.....:** SOLID

NOTE(S):

D Result was obtained from the analysis of a dilution.

E Estimated result. Result concentration exceeds the calibration range.

CON Confirmation analysis.

* Surrogate recovery is outside stated control limits.

TestAmerica Honolulu

Client Sample ID: HSH0123-05

Trace Level Organic Compounds

Lot-Sample #...: G9H280270-005 **Work Order #...:** LJ1LA1AC **Matrix.....:** SOLID
Date Sampled...: 08/17/09 **Date Received..:** 08/28/09
Prep Date.....: 09/02/09 **Analysis Date..:** 09/10/09
Prep Batch #...: 9245147
Dilution Factor: 0.97
% Moisture.....:

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	**98**		**pg/g**	**SW846 8290**
Total TCDD	**130**		**pg/g**	**SW846 8290**
1,2,3,7,8-PeCDD	**35**		**pg/g**	**SW846 8290**
Total PeCDD	**130**		**pg/g**	**SW846 8290**
1,2,3,4,7,8-HxCDD	**78**		**pg/g**	**SW846 8290**
1,2,3,6,7,8-HxCDD	**660**		**pg/g**	**SW846 8290**
1,2,3,7,8,9-HxCDD	**190**		**pg/g**	**SW846 8290**
Total HxCDD	**3800**		**pg/g**	**SW846 8290**
1,2,3,4,6,7,8-HpCDD	**23000 D**		**pg/g**	**SW846 8290**
Total HpCDD	**56000**		**pg/g**	**SW846 8290**
OCDD	**230000 E,D**		**pg/g**	**SW846 8290**
2,3,7,8-TCDF	**14 CON**		**pg/g**	**SW846 8290**
Total TCDF	**120**		**pg/g**	**SW846 8290**
1,2,3,7,8-PeCDF	**6.6**		**pg/g**	**SW846 8290**
2,3,4,7,8-PeCDF	**9.1**		**pg/g**	**SW846 8290**
Total PeCDF	**190**		**pg/g**	**SW846 8290**
1,2,3,4,7,8-HxCDF	**130**		**pg/g**	**SW846 8290**
1,2,3,6,7,8-HxCDF	**65**		**pg/g**	**SW846 8290**
2,3,4,6,7,8-HxCDF	**55**		**pg/g**	**SW846 8290**
1,2,3,7,8,9-HxCDF	ND	2.2	pg/g	SW846 8290
Total HxCDF	**4400**		**pg/g**	**SW846 8290**
1,2,3,4,6,7,8-HpCDF	**5400 D**		**pg/g**	**SW846 8290**
1,2,3,4,7,8,9-HpCDF	**280 D**		**pg/g**	**SW846 8290**
Total HpCDF	**25000**		**pg/g**	**SW846 8290**
OCDF	**12000 D**		**pg/g**	**SW846 8290**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	93	(40 - 135)
13C-1,2,3,7,8-PeCDD	101	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	86	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	106	(40 - 135)
13C-OCDD	150 *	(40 - 135)
13C-2,3,7,8-TCDF	99	(40 - 135)
13C-1,2,3,7,8-PeCDF	102	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	110	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	108	(40 - 135)

(Continued on next page)

TestAmerica Honolulu

Client Sample ID: HSH0123-05

Trace Level Organic Compounds

Lot-Sample #...: G9H280270-005 **Work Order #...:** LJ1LA1AC **Matrix.....:** SOLID

NOTE(S):

D Result was obtained from the analysis of a dilution.

E Estimated result. Result concentration exceeds the calibration range.

CON Confirmation analysis.

* Surrogate recovery is outside stated control limits.

TestAmerica Honolulu

Client Sample ID: HSH0123-06

Trace Level Organic Compounds

Lot-Sample #...: G9H280270-006 **Work Order #...:** LJ1LC1AC **Matrix.....:** SOLID
Date Sampled...: 08/17/09 **Date Received..:** 08/28/09
Prep Date.....: 09/02/09 **Analysis Date..:** 09/10/09
Prep Batch #...: 9245147
Dilution Factor: 0.97
% Moisture.....:

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	**83**		**pg/g**	**SW846 8290**
Total TCDD	**120**		**pg/g**	**SW846 8290**
1,2,3,7,8-PeCDD	**40**		**pg/g**	**SW846 8290**
Total PeCDD	**170**		**pg/g**	**SW846 8290**
1,2,3,4,7,8-HxCDD	**100**		**pg/g**	**SW846 8290**
1,2,3,6,7,8-HxCDD	**990**		**pg/g**	**SW846 8290**
1,2,3,7,8,9-HxCDD	**250**		**pg/g**	**SW846 8290**
Total HxCDD	**6400**		**pg/g**	**SW846 8290**
1,2,3,4,6,7,8-HpCDD	**40000 D**		**pg/g**	**SW846 8290**
Total HpCDD	**110000**		**pg/g**	**SW846 8290**
OCDD	**330000 E,D**		**pg/g**	**SW846 8290**
2,3,7,8-TCDF	**3.8 CON**		**pg/g**	**SW846 8290**
Total TCDF	**94**		**pg/g**	**SW846 8290**
1,2,3,7,8-PeCDF	**7.7**		**pg/g**	**SW846 8290**
2,3,4,7,8-PeCDF	**9.5**		**pg/g**	**SW846 8290**
Total PeCDF	**230**		**pg/g**	**SW846 8290**
1,2,3,4,7,8-HxCDF	**170**		**pg/g**	**SW846 8290**
1,2,3,6,7,8-HxCDF	**67**		**pg/g**	**SW846 8290**
2,3,4,6,7,8-HxCDF	**56**		**pg/g**	**SW846 8290**
1,2,3,7,8,9-HxCDF	ND	2.3	pg/g	SW846 8290
Total HxCDF	**7200**		**pg/g**	**SW846 8290**
1,2,3,4,6,7,8-HpCDF	**9700 D**		**pg/g**	**SW846 8290**
1,2,3,4,7,8,9-HpCDF	**480 D**		**pg/g**	**SW846 8290**
Total HpCDF	**50000**		**pg/g**	**SW846 8290**
OCDF	**19000 D**		**pg/g**	**SW846 8290**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	87	(40 - 135)
13C-1,2,3,7,8-PeCDD	94	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	83	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	105	(40 - 135)
13C-OCDD	186 *	(40 - 135)
13C-2,3,7,8-TCDF	90	(40 - 135)
13C-1,2,3,7,8-PeCDF	95	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	108	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	106	(40 - 135)

(Continued on next page)

TestAmerica Honolulu

Client Sample ID: HSH0123-06

Trace Level Organic Compounds

Lot-Sample #...: G9H280270-006 **Work Order #...:** LJ1LC1AC **Matrix.....:** SOLID

NOTE(S):

D Result was obtained from the analysis of a dilution.

E Estimated result. Result concentration exceeds the calibration range.

CON Confirmation analysis.

* Surrogate recovery is outside stated control limits.

QC DATA ASSOCIATION SUMMARY

G9H280270

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SOLID	SW846 8290		9245147	
002	SOLID	SW846 8290		9245147	
003	SOLID	SW846 8290		9245147	
004	SOLID	SW846 8290		9245147	
005	SOLID	SW846 8290		9245147	
006	SOLID	SW846 8290		9245147	

METHOD BLANK REPORT

Trace Level Organic Compounds

Client Lot #...: G9H280270 **Work Order #...:** LJ6W31AA **Matrix.....:** SOLID
MB Lot-Sample #: G9I020000-147
Prep Date.....: 09/02/09
Analysis Date..: 09/05/09 **Prep Batch #...:** 9245147
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	0.026	pg/g	SW846 8290
Total TCDD	ND	0.026	pg/g	SW846 8290
1,2,3,7,8-PeCDD	ND	0.039	pg/g	SW846 8290
Total PeCDD	ND	0.093	pg/g	SW846 8290
1,2,3,4,7,8-HxCDD	ND	0.053	pg/g	SW846 8290
1,2,3,6,7,8-HxCDD	ND	0.071	pg/g	SW846 8290
1,2,3,7,8,9-HxCDD	ND	0.083	pg/g	SW846 8290
Total HxCDD	ND	0.083	pg/g	SW846 8290
1,2,3,4,6,7,8-HpCDD	ND	0.22	pg/g	SW846 8290
Total HpCDD	ND	0.26	pg/g	SW846 8290
OCDD	ND	1.4	pg/g	SW846 8290
2,3,7,8-TCDF	ND	0.025	pg/g	SW846 8290
Total TCDF	ND	0.037	pg/g	SW846 8290
1,2,3,7,8-PeCDF	ND	0.031	pg/g	SW846 8290
2,3,4,7,8-PeCDF	ND	0.068	pg/g	SW846 8290
Total PeCDF	ND	0.068	pg/g	SW846 8290
1,2,3,4,7,8-HxCDF	ND	0.14	pg/g	SW846 8290
1,2,3,6,7,8-HxCDF	ND	0.070	pg/g	SW846 8290
2,3,4,6,7,8-HxCDF	ND	0.090	pg/g	SW846 8290
1,2,3,7,8,9-HxCDF	ND	0.071	pg/g	SW846 8290
Total HxCDF	ND	0.26	pg/g	SW846 8290
1,2,3,4,6,7,8-HpCDF	ND	0.17	pg/g	SW846 8290
1,2,3,4,7,8,9-HpCDF	ND	0.076	pg/g	SW846 8290
Total HpCDF	ND	0.23	pg/g	SW846 8290
OCDF	ND	0.25	pg/g	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	83	(40 - 135)
13C-1,2,3,7,8-PeCDD	80	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	80	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	78	(40 - 135)
13C-OCDD	71	(40 - 135)
13C-2,3,7,8-TCDF	82	(40 - 135)
13C-1,2,3,7,8-PeCDF	78	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	87	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	77	(40 - 135)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

Trace Level Organic Compounds

Client Lot #...: G9H280270 **Work Order #...:** LJ6W31AC **Matrix.....:** SOLID
LCS Lot-Sample#: G9I020000-147
Prep Date.....: 09/02/09 **Analysis Date..:** 09/05/09
Prep Batch #...: 9245147
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
2,3,7,8-TCDD	**108**	**(77 - 130)**	**SW846 8290**
1,2,3,7,8-PeCDD	**111**	**(79 - 134)**	**SW846 8290**
1,2,3,4,7,8-HxCDD	**123**	**(65 - 144)**	**SW846 8290**
1,2,3,6,7,8-HxCDD	**117**	**(73 - 147)**	**SW846 8290**
1,2,3,7,8,9-HxCDD	**139**	**(80 - 143)**	**SW846 8290**
1,2,3,4,6,7,8-HpCDD	**112**	**(86 - 134)**	**SW846 8290**
OCDD	**112**	**(80 - 137)**	**SW846 8290**
2,3,7,8-TCDF	**109**	**(79 - 137)**	**SW846 8290**
1,2,3,7,8-PeCDF	**111**	**(81 - 134)**	**SW846 8290**
2,3,4,7,8-PeCDF	**104**	**(76 - 132)**	**SW846 8290**
1,2,3,4,7,8-HxCDF	**112**	**(72 - 140)**	**SW846 8290**
1,2,3,6,7,8-HxCDF	**113**	**(63 - 152)**	**SW846 8290**
2,3,4,6,7,8-HxCDF	**127**	**(72 - 151)**	**SW846 8290**
1,2,3,7,8,9-HxCDF	**126**	**(72 - 152)**	**SW846 8290**
1,2,3,4,6,7,8-HpCDF	**111**	**(81 - 137)**	**SW846 8290**
1,2,3,4,7,8,9-HpCDF	**117**	**(79 - 139)**	**SW846 8290**
OCDF	**107**	**(75 - 141)**	**SW846 8290**

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	77	(40 - 135)
13C-1,2,3,7,8-PeCDD	78	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	67	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	75	(40 - 135)
13C-OCDD	67	(40 - 135)
13C-2,3,7,8-TCDF	74	(40 - 135)
13C-1,2,3,7,8-PeCDF	73	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	71	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	70	(40 - 135)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot #...: G9H280270 **Work Order #...:** LJ6W31AC **Matrix.....:** SOLID
LCS Lot-Sample#: G9I020000-147
Prep Date.....: 09/02/09 **Analysis Date..:** 09/05/09
Prep Batch #...: 9245147
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
2,3,7,8-TCDD	**20.0**	**21.7**	**pg/g**	**108**	**SW846 8290**
1,2,3,7,8-PeCDD	**100**	**111**	**pg/g**	**111**	**SW846 8290**
1,2,3,4,7,8-HxCDD	**100**	**123**	**pg/g**	**123**	**SW846 8290**
1,2,3,6,7,8-HxCDD	**100**	**117**	**pg/g**	**117**	**SW846 8290**
1,2,3,7,8,9-HxCDD	**100**	**139**	**pg/g**	**139**	**SW846 8290**
1,2,3,4,6,7,8-HpCDD	**100**	**112**	**pg/g**	**112**	**SW846 8290**
OCDD	**200**	**223**	**pg/g**	**112**	**SW846 8290**
2,3,7,8-TCDF	**20.0**	**21.8**	**pg/g**	**109**	**SW846 8290**
1,2,3,7,8-PeCDF	**100**	**111**	**pg/g**	**111**	**SW846 8290**
2,3,4,7,8-PeCDF	**100**	**104**	**pg/g**	**104**	**SW846 8290**
1,2,3,4,7,8-HxCDF	**100**	**112**	**pg/g**	**112**	**SW846 8290**
1,2,3,6,7,8-HxCDF	**100**	**113**	**pg/g**	**113**	**SW846 8290**
2,3,4,6,7,8-HxCDF	**100**	**127**	**pg/g**	**127**	**SW846 8290**
1,2,3,7,8,9-HxCDF	**100**	**126**	**pg/g**	**126**	**SW846 8290**
1,2,3,4,6,7,8-HpCDF	**100**	**111**	**pg/g**	**111**	**SW846 8290**
1,2,3,4,7,8,9-HpCDF	**100**	**117**	**pg/g**	**117**	**SW846 8290**
OCDF	**200**	**214**	**pg/g**	**107**	**SW846 8290**

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	77	(40 - 135)
13C-1,2,3,7,8-PeCDD	78	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	67	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	75	(40 - 135)
13C-OCDD	67	(40 - 135)
13C-2,3,7,8-TCDF	74	(40 - 135)
13C-1,2,3,7,8-PeCDF	73	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	71	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	70	(40 - 135)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

CASE NARRATIVE September 16, 2009

Lab Name: Anatek Labs, Inc. 1282 Alturas Drive, Moscow, ID 83843 www.anateklabs.com *FL NELAP E87893, NV ID13-2004-31, WA DOE C126, OR ELAP ID200001, MT 0028, ID, CO, NM*

Project Tracking No.: HSH0123
Anatek Batch: 090903003

Project Summary: Six (6) soil samples were received on 9/2/2009 for custom pesticide screens (EPA 8321A) analysis. Samples were received with the appropriate chain of custody. Samples were received at 4.9C.

Client Sample ID	Anatek Sample ID	Method/Prep Method
HSH0123-01	090903003-001	EPA 8321A
HSH0123-02	090903003-002	EPA 8321A
HSH0123-03	090903003-003	EPA 8321A
HSH0123-04	090903003-004	EPA 8321A
HSH0123-05	090903003-005	EPA 8321A
HSH0123-06	090903003-006	EPA 8321A

QA/QC Checks

Parameters	Yes / No	Exceptions / Deviations
Sample Holding Time Valid?	N	NA
Surrogate Recoveries Valid?	Y	NA
QC Sample(s) Recoveries Valid?	Y	NA
Method Blank(s) Valid?	Y	NA
Tune(s) Valid?	Y	NA
Internal Standard Responses Valid?	Y	NA
Initial Calibration Curve(s) Valid?	Y	NA
Continuing Calibration(s) Valid?	Y	NA
Comments:	Y	NA

1. Holding Time Requirements

Samples were received beyond the accepted holding time for EPA 8321A.

2. GC/MS Tune Requirements

No problems encountered.

3. Calibration Requirements

No problems encountered.

4. Surrogate Recovery Requirements

No problems encountered.

5. QC Sample (LCS/MS/MSD) Recovery Requirements

No problems encountered.

6. Method Blank Requirements

The method blanks were non-detect (<MDL) for all analytes. No problems encountered.

7. Internal Standard(s) Response Requirements

No problems encountered.

8. Comments

No problems encountered

I certify that this data package is in compliance with the terms and conditions of the contract. Release of the data contained in this data package has been authorized by the Laboratory Manager or his designee.

Approved by: _____

Anatek Labs, Inc.

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Client: TEST AMERICA - HONOLULU, HI
Address: 99-193 AIEA HEIGHTS DRIVE
AIEA, HI 96701-3900
Attn: MARVIN D HESKETT III

Batch #: 090903003
Project Name: HSH0123

Analytical Results Report

Sample Number	090903003-001	**Sampling Date**	8/17/2009	**Date/Time Received**	9/2/2009	11:15 AM
Client Sample ID	HSH0123-01	**Sampling Time**		**Extraction Date**	9/9/2009	
Matrix	Soil	**Sample Location**				
Comments	Benomyl is the breakdown product of carbendazim. Carbendazim, if present, is reported as benomyl					

Parameter	Result	Units	MDL	PQL	Analysis Date	Analyst	Method	Qualifier
Benomyl	ND	mg/kg	0.05	0.1	9/11/2009	TGT	EPA 8321A	H3
Diuron	ND	mg/kg	0.05	0.1	9/11/2009	TGT	EPA 8321A	H3

Sample Number	090903003-002	**Sampling Date**	8/17/2009	**Date/Time Received**	9/2/2009	11:15 AM
Client Sample ID	HSH0123-02	**Sampling Time**		**Extraction Date**	9/9/2009	
Matrix	Soil	**Sample Location**				
Comments	Benomyl is the breakdown product of carbendazim. Carbendazim, if present, is reported as benomyl					

Parameter	Result	Units	MDL	PQL	Analysis Date	Analyst	Method	Qualifier
Benomyl	ND	mg/kg	0.05	0.1	9/11/2009	TGT	EPA 8321A	H3
Diuron	ND	mg/kg	0.05	0.1	9/11/2009	TGT	EPA 8321A	H3

Sample Number	090903003-003	**Sampling Date**	8/17/2009	**Date/Time Received**	9/2/2009	11:15 AM
Client Sample ID	HSH0123-03	**Sampling Time**		**Extraction Date**	9/9/2009	
Matrix	Soil	**Sample Location**				
Comments	Benomyl is the breakdown product of carbendazim. Carbendazim, if present, is reported as benomyl					

Parameter	Result	Units	MDL	PQL	Analysis Date	Analyst	Method	Qualifier
Benomyl	ND	mg/kg	0.05	0.1	9/11/2009	TGT	EPA 8321A	H3
Diuron	ND	mg/kg	0.05	0.1	9/11/2009	TGT	EPA 8321A	H3

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

Anatek Labs, Inc.

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: TEST AMERICA - HONOLULU, HI
Address: 99-193 AIEA HEIGHTS DRIVE
AIEA, HI 96701-3900
Attn: MARVIN D HESKETT III

Batch #: 090903003
Project Name: HSH0123

Analytical Results Report

Sample Number	090903003-004	**Sampling Date**	8/18/2009	**Date/Time Received**	9/2/2009	11:15 AM
Client Sample ID	HSH0123-04	**Sampling Time**		**Extraction Date**	9/9/2009	
Matrix	Soil	**Sample Location**				
Comments	Benomyl is the breakdown product of carbendazim. Carbendazim, if present, is reported as benomyl					

Parameter	Result	Units	MDL	PQL	Analysis Date	Analyst	Method	Qualifier
Benomyl	ND	mg/kg	0.05	0.1	9/11/2009	TGT	EPA 8321A	H3
Diuron	ND	mg/kg	0.05	0.1	9/11/2009	TGT	EPA 8321A	H3

Sample Number	090903003-005	**Sampling Date**	8/18/2009	**Date/Time Received**	9/2/2009	11:15 AM
Client Sample ID	HSH0123-05	**Sampling Time**		**Extraction Date**	9/9/2009	
Matrix	Soil	**Sample Location**				
Comments	Benomyl is the breakdown product of carbendazim. Carbendazim, if present, is reported as benomyl					

Parameter	Result	Units	MDL	PQL	Analysis Date	Analyst	Method	Qualifier
Benomyl	ND	mg/kg	0.05	0.1	9/11/2009	TGT	EPA 8321A	H3
Diuron	0.333	mg/kg	0.05	0.1	9/11/2009	TGT	EPA 8321A	H3

Sample Number	090903003-006	**Sampling Date**	8/18/2009	**Date/Time Received**	9/2/2009	11:15 AM
Client Sample ID	HSH0123-06	**Sampling Time**		**Extraction Date**	9/9/2009	
Matrix	Soil	**Sample Location**				
Comments	Benomyl is the breakdown product of carbendazim. Carbendazim, if present, is reported as benomyl					

Parameter	Result	Units	MDL	PQL	Analysis Date	Analyst	Method	Qualifier
Benomyl	ND	mg/kg	0.05	0.1	9/11/2009	TGT	EPA 8321A	H3
Diuron	ND	mg/kg	0.05	0.1	9/11/2009	TGT	EPA 8321A	H3

Authorized Signature

H3	Sample was received and analyzed past holding time
MCL	EPA's Maximum Contaminant Level
ND	Not Detected
PQL	Practical Quantitation Limit

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

Anatek Labs, Inc.

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: TEST AMERICA - HONOLULU, HI
Address: 99-193 AIEA HEIGHTS DRIVE
AIEA, HI 96701-3900
Attn: MARVIN D HESKETT III

Batch #: 090903003
Project Name: HSH0123

Analytical Results Report

Quality Control Data

Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
Diuron	0.0524	mg/kg	0.05	104.8	70-130	9/9/2009	9/11/2009
Benomyl	0.0377	mg/kg	0.05	75.4	70-130	9/9/2009	9/11/2009

Matrix Spike

Sample Number	Parameter	Sample Result	MS Result	Units	MS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
090903003-002	Diuron	ND	0.517	mg/kg	0.5	103.4	50-150	9/9/2009	9/11/2009
090903003-002	Benomyl	ND	0.628	mg/kg	0.5	125.6	50-150	9/9/2009	9/11/2009

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
Benomyl	ND	mg/kg	0.1	9/9/2009	9/11/2009
Diuron	ND	mg/kg	0.1	9/9/2009	9/11/2009

AR	Acceptable Range
ND	Not Detected
PQL	Practical Quantitation Limit
RPD	Relative Percentage Difference

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Login Report

Customer Name: TEST AMERICA - HONOLULU, HI
99-193 AIEA HEIGHTS DRIVE
AIEA HI 96701-3900

Order ID: 090903003
Order Date: 9/3/2009

Contact Name: MARVIN D HESKETT III
Project Name: HSH0123

Comment:

Sample #: 090903003-001 **Customer Sample #:** HSH0123-01

Recv'd: ☑ **Collector:** **Date Collected:** 8/17/2009
Quantity: 3 **Matrix:** Soil **Date Received:** 9/2/2009 11:15:00 A
Comment:

Test	Test Group	Method	Due Date	Priority
%Moisture		%moisture	9/15/2009	***Normal (6-10 Days)***
SEMIVOLATILES MISC LC/		EPA 8321A	9/15/2009	***Normal (6-10 Days)***

Sample #: 090903003-002 **Customer Sample #:** HSH0123-02

Recv'd: ☑ **Collector:** **Date Collected:** 8/17/2009
Quantity: 3 **Matrix:** Soil **Date Received:** 9/2/2009 11:15:00 A
Comment:

Test	Test Group	Method	Due Date	Priority
%Moisture		%moisture	9/15/2009	***Normal (6-10 Days)***
SEMIVOLATILES MISC LC/		EPA 8321A	9/15/2009	***Normal (6-10 Days)***

Sample #: 090903003-003 **Customer Sample #:** HSH0123-03

Recv'd: ☑ **Collector:** **Date Collected:** 8/17/2009
Quantity: 3 **Matrix:** Soil **Date Received:** 9/2/2009 11:15:00 A
Comment:

Test	Test Group	Method	Due Date	Priority
%Moisture		%moisture	9/15/2009	***Normal (6-10 Days)***
SEMIVOLATILES MISC LC/		EPA 8321A	9/15/2009	***Normal (6-10 Days)***

Sample #: 090903003-004 **Customer Sample #:** HSH0123-04

Recv'd: ☑ **Collector:** **Date Collected:** 8/18/2009
Quantity: 3 **Matrix:** Soil **Date Received:** 9/2/2009 11:15:00 A
Comment:

Test	Test Group	Method	Due Date	Priority
%Moisture		%moisture	9/15/2009	***Normal (6-10 Days)***
SEMIVOLATILES MISC LC/		EPA 8321A	9/15/2009	***Normal (6-10 Days)***

Customer Name: TEST AMERICA - HONOLULU, HI
99-193 AIEA HEIGHTS DRIVE
AIEA HI 96701-3900

Order ID: 090903003
Order Date: 9/3/2009

Contact Name: MARVIN D HESKETT III
Project Name: HSH0123

Comment:

Sample #: 090903003-005 **Customer Sample #:** HSH0123-05

Recv'd: ☑ **Collector:** **Date Collected:** 8/18/2009
Quantity: 3 **Matrix:** Soil **Date Received:** 9/2/2009 11:15:00 A
Comment:

Test	Test Group	Method	Due Date	Priority
%Moisture		%moisture	9/15/2009	***Normal (6-10 Days)***
SEMIVOLATILES MISC LC/		EPA 8321A	9/15/2009	***Normal (6-10 Days)***

Sample #: 090903003-006 **Customer Sample #:** HSH0123-06

Recv'd: ☑ **Collector:** **Date Collected:** 8/18/2009
Quantity: 3 **Matrix:** Soil **Date Received:** 9/2/2009 11:15:00 A
Comment:

Test	Test Group	Method	Due Date	Priority
%Moisture		%moisture	9/15/2009	***Normal (6-10 Days)***
SEMIVOLATILES MISC LC/		EPA 8321A	9/15/2009	***Normal (6-10 Days)***

SAMPLE CONDITION RECORD

Samples received in a cooler?	Yes
Samples received intact?	Yes
What is the temperature inside the cooler?	4.9
Samples received with a COC?	Yes
Samples received within holding time?	Yes
Are all sample bottles properly preserved?	Yes
Are VOC samples free of headspace?	N/A
Is there a trip blank to accompany VOC samples?	N/A
Labels and chain agree?	Yes

SUBCONTRACT ORDER

TestAmerica Honolulu

HSH0123

SENDING LABORATORY:

TestAmerica Honolulu
99-193 Aiea Heights Drive, Suite 121
Aiea, HI 96701
Phone: 808-486-5227
Fax: 808-486-2456
Project Manager: Marvin D. Heskett III

RECEIVING LABORATORY:

Anatek Labs.
1282 Alturas Dr.
Moscow, ID 83843
Phone :(208) 883-2839
Fax: 208
Project Location: HI - HAWAII
Receipt Temperature:_____°C Ice: Y / N

Analysis	Units	Due	Expires	Comments
Sample ID: HSH0123-01	**Solid/Soil**		Sampled: **08/17/09 00:00**	
8321 Carbamate Herbicides	ug/kg	09/01/09	08/31/09 00:00	Diuron, Benomyl only
Containers Supplied:				
Incremental Sub-sample (analyze entire content) (F)	1	3x 2oz jars		
Sample ID: HSH0123-02	**Solid/Soil**		Sampled: **08/17/09 00:00**	
8321 Carbamate Herbicides	ug/kg	09/01/09	08/31/09 00:00	Diuron, Benomyl only
Containers Supplied:				
Incremental Sub-sample (analyze entire content) (F)	2	2x 2oz jars		
Sample ID: HSH0123-03	**Solid/Soil**		Sampled: **08/17/09 00:00**	
8321 Carbamate Herbicides	ug/kg	09/01/09	08/31/09 00:00	Diuron, Benomyl only
Containers Supplied:				
Incremental Sub-sample (analyze entire content) (F)	3	"	"	
Sample ID: HSH0123-04	**Solid/Soil**		Sampled: **08/18/09 00:00**	
8321 Carbamate Herbicides	ug/kg	09/01/09	09/01/09 00:00	Diuron, Benomyl only
Containers Supplied:				
Incremental Sub-sample (analyze entire content) (F)	4	"	"	MUBS
Sample ID: HSH0123-05	**Solid/Soil**		Sampled: **08/18/09 00:00**	
8321 Carbamate Herbicides	ug/kg	09/01/09	09/01/09 00:00	Diuron, Benomyl only
Containers Supplied:				
Incremental Sub-sample (analyze entire content) (F)	5	"	"	

Released By	Date/Time	Receiv
[signature]	~~8/27/09~~ 8/31/09	

J90903 003 TAHH Last Due 9/15/2009
1st SAMP 8/17/2009 1st RCVD 9/2/2009
HSH0123

ANATEK LABS RECEIVING LI

- [x] RECEIVED INTACT
- [x] LABELS & CHAINS AGREE
- [ ] NO HEADSPACE
- [ ] PRESERVATIVE : N/A

TEMP: 4

NUMBER OF CONTAINERS: 13 SHIPPED VIA: Fedex

DATE & TIME: 9/2/09 11:15 INSPECTED BY: TK

SUBCONTRACT ORDER

TestAmerica Honolulu

HSH0123

Analysis	Units	Due	Expires	Comments
Sample ID: HSH0123-06	**Solid/Soil**		Sampled: **08/18/09 00:00**	
8321 Carbamate Herbicides	ug/kg	09/01/09	09/01/09 00:00	Diuron, Benomyl only
Containers Supplied:	6			
Incremental Sub-sample (analyze entire content) (F)	2x 2oz jars			

ANALYTICAL REPORT

Job Number: 580-15191-1

Job Description: HSH0123

For:
TestAmerica Laboratories, Inc
99-193 Aiea Heights Drive
Suite 121
Aiea, HI 96701

Attention: Marvin D Heskett III

Approved for release.
Pam R Johnson
Project Mgmt. Assistant
9/4/2009 2:20 PM

Pam R Johnson
Project Mgmt. Assistant
pamr.johnson@testamericainc.com
09/04/2009

cc: Mike D. Solick

TestAmerica Tacoma is a part of TestAmerica Laboratories, Inc.

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This report shall not be reproduced except in full, without prior express written approval by the laboratory. The results relate only to the item(s) tested and the sample(s) as received by the laboratory.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan and meet all requirements of NELAC. All data have been found to be compliant with laboratory protocol, with the exception of any items noted in the case narrative.

Job Narrative
580-J15191-1

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

GC/MS Semi VOA - Method 8151A
The laboratory control sample (LCS) for preparation batch 580-49424 exceeded control limits for the following analyte: Dalapon 93% vs 74%. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

The matrix spike duplicate (MSD) recoverie for Dalapon was high 76% vs 74% in batch 49424. This compound was not found in the associated samples and the data has been reported.

No other analytical or quality issues were noted.

General Chemistry
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

METHOD SUMMARY

Client: TestAmerica Laboratories, Inc

Job Number: 580-15191-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Herbicides (GC/MS)	TAL TAC	SW846 8151A	
Multi Incremental Sample Preparation	TAL TAC		EPA Increm, Prep
Extraction (Herbicides)	TAL TAC		SW846 8151A

Lab References:

TAL TAC = TestAmerica Tacoma

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: TestAmerica Laboratories, Inc

Job Number: 580-15191-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
580-15191-1	HSH0123-01	Solid	08/17/2009 0000	08/28/2009 0930
580-15191-2	HSH0123-02	Solid	08/17/2009 0000	08/28/2009 0930
580-15191-3	HSH0123-03	Solid	08/17/2009 0000	08/28/2009 0930
580-15191-4	HSH0123-04	Solid	08/18/2009 0000	08/28/2009 0930
580-15191-5	HSH0123-05	Solid	08/18/2009 0000	08/28/2009 0930
580-15191-6	HSH0123-06	Solid	08/18/2009 0000	08/28/2009 0930

Client: TestAmerica Laboratories, Inc

Job Number: 580-15191-1

Client Sample ID: **HSH0123-01**

Lab Sample ID: 580-15191-1

Client Matrix: Solid

Date Sampled: 08/17/2009 0000

Date Received: 08/28/2009 0930

8151A Herbicides (GC/MS)

Method:	8151A	Analysis Batch: 580-49562		Instrument ID:	TAC008
Preparation:	8151A	Prep Batch: 580-49424		Lab File ID:	L31980.d
Dilution:	1.0			Initial Weight/Volume:	30.3863 g
Date Analyzed:	09/03/2009 0451			Final Weight/Volume:	10 mL
Date Prepared:	08/31/2009 1125			Injection Volume:	1 uL

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Dalapon		ND	*	8.2
4-Nitrophenol		ND		3.3
Dicamba		ND		3.3
Mecoprop		ND		3.3
MCPA		ND		3.3
Dichlorprop		ND		3.3
2,4-D		160		3.3
Pentachlorophenol		620		3.3
Silvex (2,4,5-TP)		ND		3.3
2,4,5-T		ND		3.3
Dinoseb		ND		8.2
2,4-DB		ND		3.3

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	86		51 - 129

Client: TestAmerica Laboratories, Inc

Job Number: 580-15191-1

Client Sample ID: **HSH0123-02**

Lab Sample ID: 580-15191-2

Client Matrix: Solid

Date Sampled: 08/17/2009 0000

Date Received: 08/28/2009 0930

8151A Herbicides (GC/MS)

Method:	8151A	Analysis Batch: 580-49562		Instrument ID:	TAC008
Preparation:	8151A	Prep Batch: 580-49424		Lab File ID:	L31981.d
Dilution:	1.0			Initial Weight/Volume:	30.2987 g
Date Analyzed:	09/03/2009 0515			Final Weight/Volume:	10 mL
Date Prepared:	08/31/2009 1125			Injection Volume:	1 uL

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Dalapon		ND	*	8.2
4-Nitrophenol		ND		3.3
Dicamba		ND		3.3
Mecoprop		ND		3.3
MCPA		ND		3.3
Dichlorprop		ND		3.3
2,4-D		270		3.3
Silvex (2,4,5-TP)		84		3.3
2,4,5-T		ND		3.3
Dinoseb		ND		8.2
2,4-DB		ND		3.3

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	67		51 - 129

Client: TestAmerica Laboratories, Inc

Job Number: 580-15191-1

Client Sample ID: **HSH0123-02**

Lab Sample ID: 580-15191-2

Client Matrix: Solid

Date Sampled: 08/17/2009 0000

Date Received: 08/28/2009 0930

8151A Herbicides (GC/MS)

Method:	8151A	Analysis Batch: 580-49562	Instrument ID:	TAC008
Preparation:	8151A	Prep Batch: 580-49424	Lab File ID:	L31986.d
Dilution:	5.0		Initial Weight/Volume:	30.2987 g
Date Analyzed:	09/03/2009 0711		Final Weight/Volume:	10 mL
Date Prepared:	08/31/2009 1125		Injection Volume:	1 uL

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Pentachlorophenol		1100		16

Client: TestAmerica Laboratories, Inc

Job Number: 580-15191-1

Client Sample ID: **HSH0123-03**

Lab Sample ID: 580-15191-3

Client Matrix: Solid

Date Sampled: 08/17/2009 0000

Date Received: 08/28/2009 0930

8151A Herbicides (GC/MS)

Method:	8151A	Analysis Batch: 580-49562		Instrument ID:	TAC008
Preparation:	8151A	Prep Batch: 580-49424		Lab File ID:	L31982.d
Dilution:	1.0			Initial Weight/Volume:	30.1120 g
Date Analyzed:	09/03/2009 0538			Final Weight/Volume:	10 mL
Date Prepared:	08/31/2009 1125			Injection Volume:	1 uL

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Dalapon		ND	*	8.3
4-Nitrophenol		ND		3.3
Dicamba		ND		3.3
Mecoprop		ND		3.3
MCPA		ND		3.3
Dichlorprop		ND		3.3
2,4-D		ND		3.3
Pentachlorophenol		21		3.3
Silvex (2,4,5-TP)		ND		3.3
2,4,5-T		ND		3.3
Dinoseb		ND		8.3
2,4-DB		ND		3.3

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	80		51 - 129

Client: TestAmerica Laboratories, Inc

Job Number: 580-15191-1

Client Sample ID: **HSH0123-04**

Lab Sample ID: 580-15191-4

Client Matrix: Solid

Date Sampled: 08/18/2009 0000

Date Received: 08/28/2009 0930

8151A Herbicides (GC/MS)

Method:	8151A	Analysis Batch: 580-49562		Instrument ID:	TAC008
Preparation:	8151A	Prep Batch: 580-49424		Lab File ID:	L31983.d
Dilution:	1.0			Initial Weight/Volume:	30.4911 g
Date Analyzed:	09/03/2009 0600			Final Weight/Volume:	10 mL
Date Prepared:	08/31/2009 1125			Injection Volume:	1 uL

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Dalapon		ND	*	8.2
4-Nitrophenol		ND		3.3
Dicamba		8.7		3.3
Mecoprop		ND		3.3
MCPA		ND		3.3
Dichlorprop		ND		3.3
2,4-D		ND		3.3
Pentachlorophenol		150		3.3
Silvex (2,4,5-TP)		ND		3.3
2,4,5-T		ND		3.3
Dinoseb		ND		8.2
2,4-DB		ND		3.3

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	59		51 - 129

Client: TestAmerica Laboratories, Inc

Job Number: 580-15191-1

Client Sample ID: **HSH0123-05**

Lab Sample ID: 580-15191-5

Client Matrix: Solid

Date Sampled: 08/18/2009 0000

Date Received: 08/28/2009 0930

8151A Herbicides (GC/MS)

Method:	8151A	Analysis Batch: 580-49562		Instrument ID:	TAC008
Preparation:	8151A	Prep Batch: 580-49424		Lab File ID:	L31984.d
Dilution:	1.0			Initial Weight/Volume:	30.1056 g
Date Analyzed:	09/03/2009 0623			Final Weight/Volume:	10 mL
Date Prepared:	08/31/2009 1125			Injection Volume:	1 uL

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Dalapon		ND	*	8.3
4-Nitrophenol		ND		3.3
Dicamba		ND		3.3
Mecoprop		ND		3.3
MCPA		ND		3.3
Dichlorprop		ND		3.3
2,4-D		ND		3.3
Pentachlorophenol		110		3.3
Silvex (2,4,5-TP)		35		3.3
2,4,5-T		ND		3.3
Dinoseb		ND		8.3
2,4-DB		ND		3.3

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	60		51 - 129

Client: TestAmerica Laboratories, Inc

Job Number: 580-15191-1

Client Sample ID: **HSH0123-06**

Lab Sample ID: 580-15191-6

Client Matrix: Solid

Date Sampled: 08/18/2009 0000

Date Received: 08/28/2009 0930

8151A Herbicides (GC/MS)

Method:	8151A	Analysis Batch: 580-49562		Instrument ID:	TAC008
Preparation:	8151A	Prep Batch: 580-49424		Lab File ID:	L31985.d
Dilution:	1.0			Initial Weight/Volume:	30.0963 g
Date Analyzed:	09/03/2009 0646			Final Weight/Volume:	10 mL
Date Prepared:	08/31/2009 1125			Injection Volume:	1 uL

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Dalapon		ND	*	8.3
4-Nitrophenol		ND		3.3
Dicamba		ND		3.3
Mecoprop		ND		3.3
MCPA		ND		3.3
Dichlorprop		ND		3.3
2,4-D		ND		3.3
Pentachlorophenol		260		3.3
Silvex (2,4,5-TP)		22		3.3
2,4,5-T		ND		3.3
Dinoseb		ND		8.3
2,4-DB		ND		3.3

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	66		51 - 129

DATA REPORTING QUALIFIERS

Client: TestAmerica Laboratories, Inc

Job Number: 580-15191-1

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	*	LCS or LCSD exceeds the control limits
	F	MS or MSD exceeds the control limits

QUALITY CONTROL RESULTS

Client: TestAmerica Laboratories, Inc

Job Number: 580-15191-1

Method Blank - Batch: 580-49424

Method: 8151A
Preparation: 8151A

Lab Sample ID:	MB 580-49424/1-A	Analysis Batch:	580-49562	Instrument ID:	TAC008
Client Matrix:	Solid	Prep Batch:	580-49424	Lab File ID:	L31969.d
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	30.0011 g
Date Analyzed:	09/03/2009 0035			Final Weight/Volume:	10 mL
Date Prepared:	08/31/2009 1125			Injection Volume:	1 uL

Analyte	Result	Qual	RL
Dalapon	ND		8.3
4-Nitrophenol	ND		3.3
Dicamba	ND		3.3
Mecoprop	ND		3.3
MCPA	ND		3.3
Dichlorprop	ND		3.3
2,4-D	ND		3.3
Pentachlorophenol	ND		3.3
Silvex (2,4,5-TP)	ND		3.3
2,4,5-T	ND		3.3
Dinoseb	ND		8.3
2,4-DB	ND		3.3

Surrogate	% Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	115	51 - 129

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TestAmerica Laboratories, Inc

Job Number: 580-15191-1

Lab Control Sample - Batch: 580-49424

Method: 8151A
Preparation: 8151A

Lab Sample ID:	LCS 580-49424/2-A	Analysis Batch:	580-49562	Instrument ID:	TAC008
Client Matrix:	Solid	Prep Batch:	580-49424	Lab File ID:	L31970.d
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	30.0041 g
Date Analyzed:	09/03/2009 0059			Final Weight/Volume:	10 mL
Date Prepared:	08/31/2009 1125			Injection Volume:	1 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Dalapon	333	311	93	16 - 74	*
4-Nitrophenol	333	310	93	50 - 150	
Dicamba	333	354	106	48 - 123	
Mecoprop	333	429	129	53 - 154	
MCPA	333	388	117	50 - 150	
Dichlorprop	333	346	104	75 - 140	
2,4-D	333	387	116	46 - 136	
Pentachlorophenol	333	325	98	50 - 150	
Silvex (2,4,5-TP)	333	356	107	52 - 137	
2,4,5-T	333	392	117	45 - 135	
Dinoseb	333	201	60	18 - 157	
2,4-DB	333	459	138	50 - 155	

Surrogate	% Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	106	51 - 129

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TestAmerica Laboratories, Inc

Job Number: 580-15191-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 580-49424

Method: 8151A
Preparation: 8151A

MS Lab Sample ID:	580-15189-A-1-A MS	Analysis Batch: 580-49562	Instrument ID: TAC008
Client Matrix:	Solid	Prep Batch: 580-49424	Lab File ID: L31971.d
Dilution:	1.0		Initial Weight/Volume: 30.1899 g
Date Analyzed:	09/03/2009 0122		Final Weight/Volume: 10 mL
Date Prepared:	08/31/2009 1125		Injection Volume: 1 uL

MSD Lab Sample ID:	580-15189-B-1-A MSD	Analysis Batch: 580-49562	Instrument ID: TAC008
Client Matrix:	Solid	Prep Batch: 580-49424	Lab File ID: L31972.d
Dilution:	1.0		Initial Weight/Volume: 30.0856 g
Date Analyzed:	09/03/2009 0146		Final Weight/Volume: 10 mL
Date Prepared:	08/31/2009 1125		Injection Volume: 1 uL

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Dalapon	60	76	16 - 74	24	30		F
4-Nitrophenol	69	85	50 - 150	21	30		
Dicamba	85	103	48 - 123	19	30		
Mecoprop	110	111	53 - 154	2	30		
MCPA	97	114	50 - 150	17	30		
Dichlorprop	107	113	75 - 140	6	30		
2,4-D	109	114	46 - 136	5	30		
Pentachlorophenol	93	106	50 - 150	13	30		
Silvex (2,4,5-TP)	99	101	52 - 137	2	30		
2,4,5-T	93	110	45 - 135	17	30		
Dinoseb	68	83	18 - 157	20	30		
2,4-DB	133	149	50 - 155	12	30		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	84	103	51 - 129

Calculations are performed before rounding to avoid round-off errors in calculated results.

SUBCONTRACT ORDER

TestAmerica Honolulu

HSH0123

15191

SENDING LABORATORY:

TestAmerica Honolulu
99-193 Aiea Heights Drive, Suite 121
Aiea, HI 96701
Phone: 808-486-5227
Fax: 808-486-2456
Project Manager: Marvin D. Heskett III
Client: Department of Health, HEER Office

RECEIVING LABORATORY:

TestAmerica Tacoma
5755 8th Street East
Tacoma,, WA 98424
Phone :(253) 922-2310
Fax: 253
Project Location: HI - HAWAII
Receipt Temperature: 5.8 °C

Med Blue ~~Not~~ WA

Blue Ice: Y / N

Analysis	Units	Due	Expires	Interlab Price	Surch	Comments
Sample ID: HSH0123-01	**Solid/Soil**		Sampled: **08/17/09 00:00**			
8151 Herbicides	mg/kg	09/01/09	08/31/09 00:00	$195.00	0%	
Containers Supplied:						
Incremental Sub-sample (analyze entire content) (D)	3x 2oz jars					
Sample ID: HSH0123-02	**Solid/Soil**		Sampled: **08/17/09 00:00**			
8151 Herbicides	mg/kg	09/01/09	08/31/09 00:00	$195.00	0%	
Containers Supplied:						
Incremental Sub-sample (analyze entire content) (D)	2x 2oz jars					
Sample ID: HSH0123-03	**Solid/Soil**		Sampled: **08/17/09 00:00**			
8151 Herbicides	mg/kg	09/01/09	08/31/09 00:00	$195.00	0%	
Containers Supplied:						
Incremental Sub-sample (analyze entire content) (D)	"		"			
Sample ID: HSH0123-04	**Solid/Soil**		Sampled: **08/18/09 00:00**			
8151 Herbicides	mg/kg	09/01/09	09/01/09 00:00	$195.00	0%	
Containers Supplied:						
Incremental Sub-sample (analyze entire content) (D)	"		"			
Sample ID: HSH0123-05	**Solid/Soil**		Sampled: **08/18/09 00:00**			
8151 Herbicides	mg/kg	09/01/09	09/01/09 00:00	$195.00	0%	
Containers Supplied:						
Incremental Sub-sample (analyze entire content) (D)	"		"			

Released By	Date/Time	Received By	Date/Time
[signature]	~~8/27/09~~ "	[signature]	8/28/09 0930
	8/27/09		
Released By	Date/Time	Received By	Date/Time

SUBCONTRACT ORDER

TestAmerica Honolulu

HSH0123

Analysis	Units	Due	Expires	Interlab Price	Surch	Comments
Sample ID: HSH0123-06	**Solid/Soil**		Sampled: **08/18/09 00:00**			
8151 Herbicides	mg/kg	09/01/09	09/01/09 00:00	$195.00	0%	
Containers Supplied:						
Incremental Sub-sample (analyze entire content) (D)	1		1			

Login Sample Receipt Check List

Client: TestAmerica Laboratories, Inc

Job Number: 580-15191-1

Login Number: 15191

List Source: TestAmerica Tacoma

Creator: Presley, Kim

List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified	N/A	

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

ORELAP#: OR100021

September 14, 2009

Marvin D. Heskett III
TestAmerica Honolulu
99-193 Aiea Heights Drive-Ste. 121
Aiea, HI 96701-3900

RE: Kohala Sugar

Enclosed are the results of analyses for samples received by the laboratory on 08/28/09 08:35. The following list is a summary of the Work Orders contained in this report, generated on 09/14/09 15:52.

If you have any questions concerning this report, please feel free to contact me.

Work Order	Project	ProjectNumber
PSH0869	Kohala Sugar	HSH0123

TestAmerica Portland

Christina Woodcock, Project Manager

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

TestAmerica Honolulu	Project Name:	**Kohala Sugar**	
99-193 Aiea Heights Drive-Ste. 121	Project Number:	HSH0123	Report Created:
Aiea, HI 96701-3900	Project Manager:	Marvin D. Heskett III	09/14/09 15:52

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
HSH0123-01 (KPMA-DU-1)	PSH0869-01	Solid/Soil	08/17/09 00:00	08/28/09 08:35
HSH0123-02 (KPMA-DU-2)	PSH0869-02	Solid/Soil	08/17/09 00:00	08/28/09 08:35
HSH0123-03 (KPMA-DU-3)	PSH0869-03	Solid/Soil	08/17/09 00:00	08/28/09 08:35
HSH0123-04 (KPMA-DU-4)	PSH0869-04	Solid/Soil	08/18/09 00:00	08/28/09 08:35
HSH0123-05 (KPMA-DU-5)	PSH0869-05	Solid/Soil	08/18/09 00:00	08/28/09 08:35
HSH0123-06 (KPMA-DU-6)	PSH0869-06	Solid/Soil	08/18/09 00:00	08/28/09 08:35

TestAmerica Portland

Christina Woodcock, Project Manager

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

TestAmerica Honolulu	Project Name:	**Kohala Sugar**	
99-193 Aiea Heights Drive-Ste. 121	Project Number:	HSH0123	Report Created:
Aiea, HI 96701-3900	Project Manager:	Marvin D. Heskett III	09/14/09 15:52

Organophosphorus Pesticides per EPA Method 8141A

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PSH0869-01 (HSH0123-01 (KPMA-DU-1))			**Solid/Soil**			**Sampled: 08/17/09 00:00**				**RL1**
Azinphos methyl	EPA 8141A	ND	-----	78.9	ug/kg wet	2x	9081026	08/31/09 16:45	09/12/09 01:51	
Bolstar	"	ND	-----	78.9	"	"	"	"	"	
Chlorpyrifos	"	ND	-----	78.9	"	"	"	"	"	
Coumaphos	"	ND	-----	78.9	"	"	"	"	"	
Demeton, Total (Qualitative Only)	"	ND	-----	78.9	"	"	"	"	"	
Diazinon	"	ND	-----	78.9	"	"	"	"	"	
Dichlorvos	"	ND	-----	78.9	"	"	"	"	"	
Dimethoate	"	ND	-----	78.9	"	"	"	"	"	
Disulfoton	"	ND	-----	78.9	"	"	"	"	"	
Ethoprop	"	ND	-----	78.9	"	"	"	"	"	
Fensulfothion	"	ND	-----	78.9	"	"	"	"	"	
EPN	"	ND	-----	78.9	"	"	"	"	"	
Fenthion	"	ND	-----	78.9	"	"	"	"	"	
Malathion	"	ND	-----	78.9	"	"	"	"	"	
Mevinphos	"	ND	-----	78.9	"	"	"	"	"	
Parathion-methyl	"	ND	-----	78.9	"	"	"	"	"	
Parathion-ethyl	"	ND	-----	78.9	"	"	"	"	"	
Phorate	"	ND	-----	78.9	"	"	"	"	"	
Ronnel	"	ND	-----	78.9	"	"	"	"	"	
Stirophos (Tetrachlorvinphos)	"	ND	-----	78.9	"	"	"	"	"	
Tokuthion (Prothiofos)	"	ND	-----	78.9	"	"	"	"	"	
Trichloronate	"	ND	-----	78.9	"	"	"	"	"	
Surrogate(s): TBP				*67.4%*		*40 - 140 %*			*"*	
TPP				*24.2%*		*35 - 145 %*			*"*	*Z*
PSH0869-02 (HSH0123-02 (KPMA-DU-2))			**Solid/Soil**			**Sampled: 08/17/09 00:00**				**RL1**
Azinphos methyl	EPA 8141A	ND	-----	79.3	ug/kg wet	2x	9081026	08/31/09 16:45	09/12/09 02:21	
Bolstar	"	ND	-----	79.3	"	"	"	"	"	
Chlorpyrifos	"	ND	-----	79.3	"	"	"	"	"	
Coumaphos	"	ND	-----	79.3	"	"	"	"	"	
Demeton, Total (Qualitative Only)	"	ND	-----	79.3	"	"	"	"	"	
Diazinon	"	ND	-----	79.3	"	"	"	"	"	
Dichlorvos	"	ND	-----	79.3	"	"	"	"	"	
Dimethoate	"	ND	-----	79.3	"	"	"	"	"	
Disulfoton	"	ND	-----	79.3	"	"	"	"	"	
Ethoprop	"	ND	-----	79.3	"	"	"	"	"	

TestAmerica Portland

Christina Woodcock, Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

TestAmerica Honolulu	Project Name:	**Kohala Sugar**	
99-193 Aiea Heights Drive-Ste. 121	Project Number:	HSH0123	Report Created:
Aiea, HI 96701-3900	Project Manager:	Marvin D. Heskett III	09/14/09 15:52

Organophosphorus Pesticides per EPA Method 8141A

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PSH0869-02 (HSH0123-02 (KPMA-DU-2))			**Solid/Soil**			**Sampled: 08/17/09 00:00**				**RL1**
Fensulfothion	EPA 8141A	ND	-----	79.3	ug/kg wet	2x	9081026	08/31/09 16:45	09/12/09 02:21	
EPN	"	ND	-----	79.3	"	"	"	"	"	
Fenthion	"	ND	-----	79.3	"	"	"	"	"	
Malathion	"	ND	-----	79.3	"	"	"	"	"	
Mevinphos	"	ND	-----	79.3	"	"	"	"	"	
Parathion-methyl	"	ND	-----	79.3	"	"	"	"	"	
Parathion-ethyl	"	ND	-----	79.3	"	"	"	"	"	
Phorate	"	ND	-----	79.3	"	"	"	"	"	
Ronnel	"	ND	-----	79.3	"	"	"	"	"	
Stirophos (Tetrachlorvinphos)	"	ND	-----	79.3	"	"	"	"	"	
Tokuthion (Prothiofos)	"	ND	-----	79.3	"	"	"	"	"	
Trichloronate	"	ND	-----	79.3	"	"	"	"	"	
Surrogate(s): TBP				*79.3%*		*40 - 140 %*				*"*
TPP				*43.7%*		*35 - 145 %*				*"*
PSH0869-03 (HSH0123-03 (KPMA-DU-3))			**Solid/Soil**			**Sampled: 08/17/09 00:00**				**RL1**
Azinphos methyl	EPA 8141A	ND	-----	79.6	ug/kg wet	2x	9081026	08/31/09 16:45	09/12/09 02:50	
Bolstar	"	ND	-----	79.6	"	"	"	"	"	
Chlorpyrifos	"	ND	-----	79.6	"	"	"	"	"	
Coumaphos	"	ND	-----	79.6	"	"	"	"	"	
Demeton, Total (Qualitative Only)	"	ND	-----	79.6	"	"	"	"	"	
Diazinon	"	ND	-----	79.6	"	"	"	"	"	
Dichlorvos	"	ND	-----	79.6	"	"	"	"	"	
Dimethoate	"	ND	-----	79.6	"	"	"	"	"	
Disulfoton	"	ND	-----	79.6	"	"	"	"	"	
Ethoprop	"	ND	-----	79.6	"	"	"	"	"	
Fensulfothion	"	ND	-----	79.6	"	"	"	"	"	
EPN	"	ND	-----	79.6	"	"	"	"	"	
Fenthion	"	ND	-----	79.6	"	"	"	"	"	
Malathion	"	ND	-----	79.6	"	"	"	"	"	
Mevinphos	"	ND	-----	79.6	"	"	"	"	"	
Parathion-methyl	"	ND	-----	79.6	"	"	"	"	"	
Parathion-ethyl	"	ND	-----	79.6	"	"	"	"	"	
Phorate	"	ND	-----	79.6	"	"	"	"	"	
Ronnel	"	ND	-----	79.6	"	"	"	"	"	
Stirophos (Tetrachlorvinphos)	"	ND	-----	79.6	"	"	"	"	"	

TestAmerica Portland

Christina Woodcock, Project Manager

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

TestAmerica Honolulu	Project Name:	**Kohala Sugar**	
99-193 Aiea Heights Drive-Ste. 121	Project Number:	HSH0123	Report Created:
Aiea, HI 96701-3900	Project Manager:	Marvin D. Heskett III	09/14/09 15:52

Organophosphorus Pesticides per EPA Method 8141A

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PSH0869-03 (HSH0123-03 (KPMA-DU-3))			**Solid/Soil**			**Sampled: 08/17/09 00:00**				**RL1**
Tokuthion (Prothiofos)	EPA 8141A	ND	-----	79.6	ug/kg wet	2x	9081026	08/31/09 16:45	09/12/09 02:50	
Trichloronate	"	ND	-----	79.6	"	"	"	"	"	
Surrogate(s): TBP				*76.5%*		*40 - 140 %*				"
TPP				*42.0%*		*35 - 145 %*				"
PSH0869-04 (HSH0123-04 (KPMA-DU-4))			**Solid/Soil**			**Sampled: 08/18/09 00:00**				**RL1**
Azinphos methyl	EPA 8141A	ND	-----	79.5	ug/kg wet	2x	9081026	08/31/09 16:45	09/12/09 03:20	
Bolstar	"	ND	-----	79.5	"	"	"	"	"	
Chlorpyrifos	"	ND	-----	79.5	"	"	"	"	"	
Coumaphos	"	ND	-----	79.5	"	"	"	"	"	
Demeton, Total (Qualitative Only)	"	ND	-----	79.5	"	"	"	"	"	
Diazinon	"	ND	-----	79.5	"	"	"	"	"	
Dichlorvos	"	ND	-----	79.5	"	"	"	"	"	
Dimethoate	"	ND	-----	79.5	"	"	"	"	"	
Disulfoton	"	ND	-----	79.5	"	"	"	"	"	
Ethoprop	"	ND	-----	79.5	"	"	"	"	"	
Fensulfothion	"	ND	-----	79.5	"	"	"	"	"	
EPN	"	ND	-----	79.5	"	"	"	"	"	
Fenthion	"	ND	-----	79.5	"	"	"	"	"	
Malathion	"	ND	-----	79.5	"	"	"	"	"	
Mevinphos	"	ND	-----	79.5	"	"	"	"	"	
Parathion-methyl	"	ND	-----	79.5	"	"	"	"	"	
Parathion-ethyl	"	ND	-----	79.5	"	"	"	"	"	
Phorate	"	ND	-----	79.5	"	"	"	"	"	
Ronnel	"	ND	-----	79.5	"	"	"	"	"	
Stirophos (Tetrachlorvinphos)	"	ND	-----	79.5	"	"	"	"	"	
Tokuthion (Prothiofos)	"	ND	-----	79.5	"	"	"	"	"	
Trichloronate	"	ND	-----	79.5	"	"	"	"	"	
Surrogate(s): TBP				*80.5%*		*40 - 140 %*				"
TPP				*56.9%*		*35 - 145 %*				"

TestAmerica Portland

Christina Woodcock, Project Manager

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
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TestAmerica Honolulu	Project Name:	**Kohala Sugar**	
99-193 Aiea Heights Drive-Ste. 121	Project Number:	HSH0123	Report Created:
Aiea, HI 96701-3900	Project Manager:	Marvin D. Heskett III	09/14/09 15:52

Organophosphorus Pesticides per EPA Method 8141A

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PSH0869-05 (HSH0123-05 (KPMA-DU-5))			**Solid/Soil**			**Sampled: 08/18/09 00:00**				**RL1**
Azinphos methyl	EPA 8141A	ND	-----	78.9	ug/kg wet	2x	9081026	08/31/09 16:45	09/12/09 03:50	
Bolstar	"	ND	-----	78.9	"	"	"	"	"	
Chlorpyrifos	"	ND	-----	78.9	"	"	"	"	"	
Coumaphos	"	ND	-----	78.9	"	"	"	"	"	
Demeton, Total (Qualitative Only)	"	ND	-----	78.9	"	"	"	"	"	
Diazinon	"	ND	-----	78.9	"	"	"	"	"	
Dichlorvos	"	ND	-----	78.9	"	"	"	"	"	
Dimethoate	"	ND	-----	78.9	"	"	"	"	"	
Disulfoton	"	ND	-----	78.9	"	"	"	"	"	
Ethoprop	"	ND	-----	78.9	"	"	"	"	"	
Fensulfothion	"	ND	-----	78.9	"	"	"	"	"	
EPN	"	ND	-----	78.9	"	"	"	"	"	
Fenthion	"	ND	-----	78.9	"	"	"	"	"	
Malathion	"	ND	-----	78.9	"	"	"	"	"	
Mevinphos	"	ND	-----	78.9	"	"	"	"	"	
Parathion-methyl	"	ND	-----	78.9	"	"	"	"	"	
Parathion-ethyl	"	ND	-----	78.9	"	"	"	"	"	
Phorate	"	ND	-----	78.9	"	"	"	"	"	
Ronnel	"	ND	-----	78.9	"	"	"	"	"	
Stirophos (Tetrachlorvinphos)	"	ND	-----	78.9	"	"	"	"	"	
Tokuthion (Prothiofos)	"	ND	-----	78.9	"	"	"	"	"	
Trichloronate	"	ND	-----	78.9	"	"	"	"	"	
Surrogate(s): TBP				*80.7%*		*40 - 140 %*				*"*
TPP				*55.6%*		*35 - 145 %*				*"*
PSH0869-06 (HSH0123-06 (KPMA-DU-6))			**Solid/Soil**			**Sampled: 08/18/09 00:00**				**RL1**
Azinphos methyl	EPA 8141A	ND	-----	159	ug/kg wet	4x	9081026	08/31/09 16:45	09/12/09 06:19	
Bolstar	"	ND	-----	159	"	"	"	"	"	
Chlorpyrifos	"	ND	-----	159	"	"	"	"	"	
Coumaphos	"	ND	-----	159	"	"	"	"	"	
Demeton, Total (Qualitative Only)	"	ND	-----	159	"	"	"	"	"	
Diazinon	"	ND	-----	159	"	"	"	"	"	
Dichlorvos	"	ND	-----	159	"	"	"	"	"	
Dimethoate	"	ND	-----	159	"	"	"	"	"	
Disulfoton	"	ND	-----	159	"	"	"	"	"	
Ethoprop	"	ND	-----	159	"	"	"	"	"	

TestAmerica Portland

Christina Woodcock, Project Manager

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
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TestAmerica Honolulu	Project Name:	**Kohala Sugar**	
99-193 Aiea Heights Drive-Ste. 121	Project Number:	HSH0123	Report Created:
Aiea, HI 96701-3900	Project Manager:	Marvin D. Heskett III	09/14/09 15:52

Organophosphorus Pesticides per EPA Method 8141A

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PSH0869-06 (HSH0123-06 (KPMA-DU-6))			**Solid/Soil**			**Sampled: 08/18/09 00:00**				**RL1**
Fensulfothion	EPA 8141A	ND	-----	159	ug/kg wet	4x	9081026	08/31/09 16:45	09/12/09 06:19	
EPN	"	ND	-----	159	"	"	"	"	"	
Fenthion	"	ND	-----	159	"	"	"	"	"	
Malathion	"	ND	-----	159	"	"	"	"	"	
Mevinphos	"	ND	-----	159	"	"	"	"	"	
Parathion-methyl	"	ND	-----	159	"	"	"	"	"	
Parathion-ethyl	"	ND	-----	159	"	"	"	"	"	
Phorate	"	ND	-----	159	"	"	"	"	"	
Ronnel	"	ND	-----	159	"	"	"	"	"	
Stirophos (Tetrachlorvinphos)	"	ND	-----	159	"	"	"	"	"	
Tokuthion (Prothiofos)	"	ND	-----	159	"	"	"	"	"	
Trichloronate	"	ND	-----	159	"	"	"	"	"	
Surrogate(s): TBP				*72.0%*		*40 - 140 %*				*" **Z3***
TPP				*37.4%*		*35 - 145 %*				*" **Z3***

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Christina Woodcock, Project Manager

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TestAmerica Honolulu	Project Name:	**Kohala Sugar**	
99-193 Aiea Heights Drive-Ste. 121	Project Number:	HSH0123	Report Created:
Aiea, HI 96701-3900	Project Manager:	Marvin D. Heskett III	09/14/09 15:52

Organophosphorus Pesticides per EPA Method 8141A - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 9081026 **Soil Preparation Method: EPA 3540**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9081026-BLK1)								Extracted: 08/31/09 16:45						
Azinphos methyl	EPA 8141A	ND	---	40.0	ug/kg wet	1x	--	--	--	--	--	--	09/11/09 21:24	
Bolstar	"	ND	---	40.0	"	"	--	--	--	--	--	--	"	
Chlorpyrifos	"	ND	---	40.0	"	"	--	--	--	--	--	--	"	
Coumaphos	"	ND	---	40.0	"	"	--	--	--	--	--	--	"	
Demeton, Total (Qualitative Only)	"	ND	---	40.0	"	"	--	--	--	--	--	--	"	
Diazinon	"	ND	---	40.0	"	"	--	--	--	--	--	--	"	
Dichlorvos	"	ND	---	40.0	"	"	--	--	--	--	--	--	"	
Dimethoate	"	ND	---	40.0	"	"	--	--	--	--	--	--	"	
Disulfoton	"	ND	---	40.0	"	"	--	--	--	--	--	--	"	
Ethoprop	"	ND	---	40.0	"	"	--	--	--	--	--	--	"	
Fensulfothion	"	ND	---	40.0	"	"	--	--	--	--	--	--	"	
EPN	"	ND	---	40.0	"	"	--	--	--	--	--	--	"	
Fenthion	"	ND	---	40.0	"	"	--	--	--	--	--	--	"	
Malathion	"	ND	---	40.0	"	"	--	--	--	--	--	--	"	
Mevinphos	"	ND	---	40.0	"	"	--	--	--	--	--	--	"	
Parathion-methyl	"	ND	---	40.0	"	"	--	--	--	--	--	--	"	
Parathion-ethyl	"	ND	---	40.0	"	"	--	--	--	--	--	--	"	
Phorate	"	ND	---	40.0	"	"	--	--	--	--	--	--	"	
Ronnel	"	ND	---	40.0	"	"	--	--	--	--	--	--	"	
Stirophos (Tetrachlorvinphos)	"	ND	---	40.0	"	"	--	--	--	--	--	--	"	
Tokuthion (Prothiofos)	"	ND	---	40.0	"	"	--	--	--	--	--	--	"	
Trichloronate	"	ND	---	40.0	"	"	--	--	--	--	--	--	"	
Surrogate(s): TBP		*Recovery: 80.8%*			*Limits: 40-140%*								*09/11/09 21:24*	
TPP		*72.5%*			*35-145%*								*"*	
LCS (9081026-BS1)								Extracted: 08/31/09 16:45						
Azinphos methyl	EPA 8141A	60.0	---	40.0	ug/kg wet	1x	--	66.7	89.9%	(35-135)	--	--	09/11/09 21:53	
Bolstar	"	50.5	---	40.0	"	"	--	"	75.8%	(45-125)	--	--	"	
Chlorpyrifos	"	50.5	---	40.0	"	"	--	"	75.8%	"	--	--	"	
Coumaphos	"	53.9	---	40.0	"	"	--	"	80.9%	(30-130)	--	--	"	
Demeton, Total (Qualitative Only)	"	87.8	---	40.0	"	"	--	133	65.9%	(30-150)	--	--	"	
Diazinon	"	51.4	---	40.0	"	"	--	66.7	77.2%	(50-110)	--	--	"	
Dichlorvos	"	81.6	---	40.0	"	"	--	"	122%	"	--	--	"	L
Dimethoate	"	79.4	---	40.0	"	"	--	"	119%	(55.5-102)	--	--	"	L
Disulfoton	"	47.9	---	40.0	"	"	--	"	71.8%	(49.3-102)	--	--	"	
Ethoprop	"	52.6	---	40.0	"	"	--	"	78.9%	(54.3-102)	--	--	"	
Fensulfothion	"	68.4	---	40.0	"	"	--	"	103%	(58.8-113)	--	--	"	
EPN	"	71.0	---	40.0	"	"	--	"	106%	(50.2-120)	--	--	"	
Fenthion	"	55.8	---	40.0	"	"	--	"	83.7%	(53.8-107)	--	--	"	

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Christina Woodcock, Project Manager

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TestAmerica Honolulu	Project Name:	**Kohala Sugar**	
99-193 Aiea Heights Drive-Ste. 121	Project Number:	HSH0123	Report Created:
Aiea, HI 96701-3900	Project Manager:	Marvin D. Heskett III	09/14/09 15:52

Organophosphorus Pesticides per EPA Method 8141A - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 9081026 **Soil Preparation Method: EPA 3540**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (9081026-BS1)								Extracted: 08/31/09 16:45						
Malathion	EPA 8141A	57.5	---	40.0	ug/kg wet	1x	--	66.7	86.3%	(50.2-104)	--	--	09/11/09 21:53	
Mevinphos	"	52.2	---	40.0	"	"	--	"	78.3%	(46.5-107)	--	--	"	
Parathion-methyl	"	51.0	---	40.0	"	"	--	"	76.5%	(35.6-102)	--	--	"	
Parathion-ethyl	"	63.4	---	40.0	"	"	--	"	95.1%	(50.9-117)	--	--	"	
Phorate	"	49.9	---	40.0	"	"	--	"	74.8%	(51.6-102)	--	--	"	
Ronnel	"	49.0	---	40.0	"	"	--	"	73.4%	(34.7-95.4	--	--	"	
Stirophos (Tetrachlorvinphos)	"	47.8	---	40.0	"	"	--	"	71.7%	(53.5-111)	--	--	"	
Tokuthion (Prothiofos)	"	51.6	---	40.0	"	"	--	"	77.5%	(54.7-115)	--	--	"	
Trichloronate	"	52.6	---	40.0	"	"	--	"	78.8%	(61.1-106)	--	--	"	
Surrogate(s): TBP		*Recovery: 88.2%*			*Limits: 40-140%*								*09/11/09 21:53*	
TPP		*74.1%*			*35-145%*								*"*	
Matrix Spike (9081026-MS1)					QC Source: PSH0869-01			Extracted: 08/31/09 16:45						M4
Azinphos methyl	EPA 8141A	14.9	---	158	ug/kg wet	4x	ND	65.7	22.7%	(30-150)	--	--	09/11/09 22:23	
Bolstar	"	39.4	---	158	"	"	ND	"	59.9%	"	--	--	"	
Chlorpyrifos	"	41.6	---	158	"	"	ND	"	63.3%	"	--	--	"	
Coumaphos	"	17.2	---	158	"	"	ND	"	26.2%	"	--	--	"	
Demeton, Total (Qualitative Only)	"	56.8	---	158	"	"	ND	131	43.2%	"	--	--	"	
Diazinon	"	48.6	---	158	"	"	ND	65.7	74.0%	"	--	--	"	
Dichlorvos	"	36.0	---	158	"	"	ND	"	54.9%	"	--	--	"	
Dimethoate	"	20.9	---	158	"	"	ND	"	31.8%	"	--	--	"	
Disulfoton	"	41.0	---	158	"	"	ND	"	62.4%	"	--	--	"	
Ethoprop	"	41.3	---	158	"	"	ND	"	62.9%	"	--	--	"	
Fensulfothion	"	43.1	---	158	"	"	ND	"	65.7%	"	--	--	"	
EPN	"	37.7	---	158	"	"	ND	"	57.4%	"	--	--	"	
Fenthion	"	33.8	---	158	"	"	ND	"	51.4%	"	--	--	"	
Malathion	"	27.5	---	158	"	"	ND	"	41.9%	"	--	--	"	
Mevinphos	"	18.5	---	158	"	"	ND	"	28.2%	"	--	--	"	
Parathion-methyl	"	17.1	---	158	"	"	ND	"	26.1%	"	--	--	"	
Parathion-ethyl	"	35.4	---	158	"	"	ND	"	53.8%	"	--	--	"	
Phorate	"	43.9	---	158	"	"	ND	"	66.9%	"	--	--	"	
Ronnel	"	37.0	---	158	"	"	ND	"	56.4%	"	--	--	"	
Stirophos (Tetrachlorvinphos)	"	24.0	---	158	"	"	ND	"	36.5%	"	--	--	"	
Tokuthion (Prothiofos)	"	45.2	---	158	"	"	ND	"	68.9%	"	--	--	"	
Trichloronate	"	47.2	---	158	"	"	ND	"	71.9%	"	--	--	"	
Surrogate(s): TBP		*Recovery: 74.9%*			*Limits: 40-140%*								*09/11/09 22:23*	*Z3*
TPP		*37.5%*			*35-145%*								*"*	*Z3*

TestAmerica Portland

Christina Woodcock, Project Manager

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TestAmerica Honolulu	Project Name:	**Kohala Sugar**	
99-193 Aiea Heights Drive-Ste. 121	Project Number:	HSH0123	Report Created:
Aiea, HI 96701-3900	Project Manager:	Marvin D. Heskett III	09/14/09 15:52

Organophosphorus Pesticides per EPA Method 8141A - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 9081026 **Soil Preparation Method: EPA 3540**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike (9081026-MS2)					QC Source: PSH0870-01				Extracted: 08/31/09 16:45					M4
Azinphos methyl	EPA 8141A	ND	---	159	ug/kg wet	4x	ND	66.2	NR	(30-150)	--	--	09/11/09 22:53	
Bolstar	"	21.5	---	159	"	"	ND	"	32.5%	"	--	--	"	
Chlorpyrifos	"	27.4	---	159	"	"	ND	"	41.5%	"	--	--	"	
Coumaphos	"	9.74	---	159	"	"	ND	"	14.7%	"	--	--	"	
Demeton, Total (Qualitative Only)	"	32.1	---	159	"	"	ND	132	24.2%	"	--	--	"	
Diazinon	"	32.4	---	159	"	"	ND	66.2	49.0%	"	--	--	"	
Dichlorvos	"	14.9	---	159	"	"	ND	"	22.5%	"	--	--	"	
Dimethoate	"	19.4	---	159	"	"	ND	"	29.4%	"	--	--	"	
Disulfoton	"	26.3	---	159	"	"	ND	"	39.8%	"	--	--	"	
Ethoprop	"	20.3	---	159	"	"	ND	"	30.6%	"	--	--	"	
Fensulfothion	"	31.3	---	159	"	"	ND	"	47.3%	"	--	--	"	
EPN	"	14.2	---	159	"	"	ND	"	21.5%	"	--	--	"	
Fenthion	"	17.4	---	159	"	"	ND	"	26.3%	"	--	--	"	
Malathion	"	13.6	---	159	"	"	ND	"	20.5%	"	--	--	"	
Mevinphos	"	7.00	---	159	"	"	ND	"	10.6%	"	--	--	"	
Parathion-methyl	"	9.21	---	159	"	"	ND	"	13.9%	"	--	--	"	
Parathion-ethyl	"	16.8	---	159	"	"	ND	"	25.4%	"	--	--	"	
Phorate	"	29.3	---	159	"	"	ND	"	44.3%	"	--	--	"	
Ronnel	"	22.4	---	159	"	"	ND	"	33.8%	"	--	--	"	
Stirophos (Tetrachlorvinphos)	"	11.0	---	159	"	"	ND	"	16.6%	"	--	--	"	
Tokuthion (Prothiofos)	"	32.5	---	159	"	"	ND	"	49.1%	"	--	--	"	
Trichloronate	"	37.1	---	159	"	"	ND	"	56.0%	"	--	--	"	
Surrogate(s): TBP		*Recovery: 47.7%*			*Limits: 40-140%*								*09/11/09 22:53*	*Z3*
TPP		*19.5%*			*35-145%*								*"*	*Z3*
Matrix Spike (9081026-MS3)					QC Source: PSH0871-01				Extracted: 08/31/09 16:45					M4
Azinphos methyl	EPA 8141A	ND	---	160	ug/kg wet	4x	ND	66.6	NR	(30-150)	--	--	09/11/09 23:22	
Bolstar	"	34.7	---	160	"	"	ND	"	52.0%	"	--	--	"	
Chlorpyrifos	"	42.5	---	160	"	"	ND	"	63.8%	"	--	--	"	
Coumaphos	"	ND	---	160	"	"	ND	"	NR	"	--	--	"	
Demeton, Total (Qualitative Only)	"	57.3	---	160	"	"	ND	133	43.0%	"	--	--	"	
Diazinon	"	45.1	---	160	"	"	ND	66.6	67.7%	"	--	--	"	
Dichlorvos	"	32.6	---	160	"	"	ND	"	49.0%	"	--	--	"	
Dimethoate	"	22.7	---	160	"	"	ND	"	34.1%	"	--	--	"	
Disulfoton	"	36.1	---	160	"	"	ND	"	54.2%	"	--	--	"	
Ethoprop	"	36.6	---	160	"	"	ND	"	54.9%	"	--	--	"	
Fensulfothion	"	37.0	---	160	"	"	ND	"	55.5%	"	--	--	"	
EPN	"	42.8	---	160	"	"	ND	"	64.3%	"	--	--	"	
Fenthion	"	29.9	---	160	"	"	ND	"	44.9%	"	--	--	"	

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TestAmerica Honolulu	Project Name:	**Kohala Sugar**	
99-193 Aiea Heights Drive-Ste. 121	Project Number:	HSH0123	Report Created:
Aiea, HI 96701-3900	Project Manager:	Marvin D. Heskett III	09/14/09 15:52

Organophosphorus Pesticides per EPA Method 8141A - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 9081026 **Soil Preparation Method: EPA 3540**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike (9081026-MS3)					QC Source: PSH0871-01				Extracted: 08/31/09 16:45					M4
Malathion	EPA 8141A	21.9	---	160	ug/kg wet	4x	ND	66.6	32.8%	(30-150)	--	--	09/11/09 23:22	
Mevinphos	"	13.9	---	160	"	"	ND	"	20.8%	"	--	--	"	
Parathion-methyl	"	16.8	---	160	"	"	ND	"	25.2%	"	--	--	"	
Parathion-ethyl	"	29.8	---	160	"	"	ND	"	44.7%	"	--	--	"	
Phorate	"	40.6	---	160	"	"	ND	"	61.0%	"	--	--	"	
Ronnel	"	34.9	---	160	"	"	ND	"	52.4%	"	--	--	"	
Stirophos (Tetrachlorvinphos)	"	17.4	---	160	"	"	ND	"	26.2%	"	--	--	"	
Tokuthion (Prothiofos)	"	45.3	---	160	"	"	ND	"	67.9%	"	--	--	"	
Trichloronate	"	47.4	---	160	"	"	ND	"	71.1%	"	--	--	"	
Surrogate(s): TBP		*Recovery: 70.0%*			*Limits: 40-140%*								*09/11/09 23:22*	
TPP		*221%*			*35-145%*								*"*	*ZX*
Matrix Spike Dup (9081026-MSD1)					QC Source: PSH0869-01				Extracted: 08/31/09 16:45					M4
Azinphos methyl	EPA 8141A	ND	---	158	ug/kg wet	4x	ND	65.7	NR	(30-150)		(40)	09/11/09 23:52	
Bolstar	"	35.2	---	158	"	"	ND	"	53.6%	"	11.1%	"	"	
Chlorpyrifos	"	37.0	---	158	"	"	ND	"	56.2%	"	11.8%	"	"	
Coumaphos	"	ND	---	158	"	"	ND	"	NR	"		"	"	
Demeton, Total (Qualitative Only)	"	42.4	---	158	"	"	ND	131	32.3%	"	28.9%	"	"	
Diazinon	"	37.9	---	158	"	"	ND	65.7	57.6%	"	24.9%	"	"	
Dichlorvos	"	27.5	---	158	"	"	ND	"	41.9%	"	26.7%	"	"	
Dimethoate	"	15.9	---	158	"	"	ND	"	24.2%	"	26.7%	"	"	
Disulfoton	"	32.4	---	158	"	"	ND	"	49.4%	"	23.2%	"	"	
Ethoprop	"	31.6	---	158	"	"	ND	"	48.1%	"	26.5%	"	"	
Fensulfothion	"	29.4	---	158	"	"	ND	"	44.7%	"	38.0%	"	"	
EPN	"	14.3	---	158	"	"	ND	"	21.7%	"	90.1%	"	"	
Fenthion	"	24.6	---	158	"	"	ND	"	37.4%	"	31.5%	"	"	
Malathion	"	20.2	---	158	"	"	ND	"	30.7%	"	30.7%	"	"	
Mevinphos	"	9.14	---	158	"	"	ND	"	13.9%	"	67.7%	"	"	
Parathion-methyl	"	11.3	---	158	"	"	ND	"	17.2%	"	41.2%	"	"	
Parathion-ethyl	"	21.3	---	158	"	"	ND	"	32.4%	"	49.6%	"	"	
Phorate	"	34.4	---	158	"	"	ND	"	52.3%	"	24.3%	"	"	
Ronnel	"	30.5	---	158	"	"	ND	"	46.4%	"	19.4%	"	"	
Stirophos (Tetrachlorvinphos)	"	12.2	---	158	"	"	ND	"	18.6%	"	64.9%	"	"	
Tokuthion (Prothiofos)	"	41.9	---	158	"	"	ND	"	63.8%	"	7.61%	"	"	
Trichloronate	"	43.1	---	158	"	"	ND	"	65.6%	"	9.08%	"	"	
Surrogate(s): TBP		*Recovery: 63.1%*			*Limits: 40-140%*								*09/11/09 23:52*	*Z3*
TPP		*24.9%*			*35-145%*								*"*	*Z3*

TestAmerica Portland

Christina Woodcock, Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

TestAmerica Honolulu	Project Name:	**Kohala Sugar**	
99-193 Aiea Heights Drive-Ste. 121	Project Number:	HSH0123	Report Created:
Aiea, HI 96701-3900	Project Manager:	Marvin D. Heskett III	09/14/09 15:52

Organophosphorus Pesticides per EPA Method 8141A - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 9081026 **Soil Preparation Method: EPA 3540**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike Dup (9081026-MSD2)					**QC Source: PSH0870-01**				**Extracted: 08/31/09 16:45**					M4
Azinphos methyl	EPA 8141A	39.3	---	159	ug/kg wet	4x	ND	66.2	59.4%	(30-150)		(40)	09/12/09 00:22	
Bolstar	"	44.5	---	159	"	"	ND	"	67.3%	"	69.6%	"	"	
Chlorpyrifos	"	41.5	---	159	"	"	ND	"	62.7%	"	40.7%	"	"	
Coumaphos	"	35.2	---	159	"	"	ND	"	53.2%	"	--	"	"	
Demeton, Total (Qualitative Only)	"	61.9	---	159	"	"	ND	132	46.7%	"	63.4%	"	"	
Diazinon	"	42.7	---	159	"	"	ND	66.2	64.5%	"	27.3%	"	"	
Dichlorvos	"	36.8	---	159	"	"	ND	"	55.6%	"	--	"	"	
Dimethoate	"	68.3	---	159	"	"	ND	"	103%	"	--	"	"	
Disulfoton	"	38.8	---	159	"	"	ND	"	58.6%	"	38.1%	"	"	
Ethoprop	"	44.7	---	159	"	"	ND	"	67.5%	"	75.1%	"	"	
Fensulfothion	"	71.8	---	159	"	"	ND	"	109%	"	78.5%	"	"	
EPN	"	47.0	---	159	"	"	ND	"	71.0%	"	--	"	"	
Fenthion	"	37.9	---	159	"	"	ND	"	57.3%	"	--	"	"	
Malathion	"	40.1	---	159	"	"	ND	"	60.7%	"	--	"	"	
Mevinphos	"	32.2	---	159	"	"	ND	"	48.6%	"	--	"	"	
Parathion-methyl	"	39.5	---	159	"	"	ND	"	59.6%	"	--	"	"	
Parathion-ethyl	"	47.0	---	159	"	"	ND	"	71.0%	"	--	"	"	
Phorate	"	39.2	---	159	"	"	ND	"	59.3%	"	28.9%	"	"	
Ronnel	"	37.0	---	159	"	"	ND	"	56.0%	"	49.3%	"	"	
Stirophos (Tetrachlorvinphos)	"	28.0	---	159	"	"	ND	"	42.4%	"	--	"	"	
Tokuthion (Prothiofos)	"	39.3	---	159	"	"	ND	"	59.4%	"	19.0%	"	"	
Trichloronate	"	44.4	---	159	"	"	ND	"	67.1%	"	17.9%	"	"	
Surrogate(s): TBP		*Recovery: 74.9%*			*Limits: 40-140%*								*09/12/09 00:22*	*Z3*
TPP		*52.6%*			*35-145%*								*"*	*Z3*
Matrix Spike Dup (9081026-MSD3)					**QC Source: PSH0871-01**				**Extracted: 08/31/09 16:45**					M4
Azinphos methyl	EPA 8141A	27.2	---	157	ug/kg wet	4x	ND	65.4	41.5%	(30-150)		(40)	09/12/09 00:51	
Bolstar	"	45.1	---	157	"	"	ND	"	68.9%	"	26.2%	"	"	
Chlorpyrifos	"	44.1	---	157	"	"	ND	"	67.5%	"	3.79%	"	"	
Coumaphos	"	24.6	---	157	"	"	ND	"	37.6%	"		"	"	
Demeton, Total (Qualitative Only)	"	72.7	---	157	"	"	ND	131	55.6%	"	23.6%	"	"	
Diazinon	"	49.6	---	157	"	"	ND	65.4	75.8%	"	9.44%	"	"	
Dichlorvos	"	44.9	---	157	"	"	ND	"	68.6%	"	31.6%	"	"	
Dimethoate	"	35.0	---	157	"	"	ND	"	53.5%	"	42.4%	"	"	
Disulfoton	"	44.6	---	157	"	"	ND	"	68.2%	"	21.1%	"	"	
Ethoprop	"	43.6	---	157	"	"	ND	"	66.6%	"	17.4%	"	"	
Fensulfothion	"	51.0	---	157	"	"	ND	"	78.0%	"	31.8%	"	"	
EPN	"	43.9	---	157	"	"	ND	"	67.2%	"	2.49%	"	"	
Fenthion	"	39.3	---	157	"	"	ND	"	60.1%	"	27.1%	"	"	

TestAmerica Portland

Christina Woodcock, Project Manager

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
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TestAmerica Honolulu	Project Name:	**Kohala Sugar**	
99-193 Aiea Heights Drive-Ste. 121	Project Number:	HSH0123	Report Created:
Aiea, HI 96701-3900	Project Manager:	Marvin D. Heskett III	09/14/09 15:52

Organophosphorus Pesticides per EPA Method 8141A - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 9081026 **Soil Preparation Method: EPA 3540**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike Dup (9081026-MSD3)					QC Source: PSH0871-01				Extracted: 08/31/09 16:45					M4
Malathion	EPA 8141A	35.4	---	157	ug/kg wet	4x	ND	65.4	54.1%	(30-150)	47.2%	(40)	09/12/09 00:51	
Mevinphos	"	24.3	---	157	"	"	ND	"	37.2%	"	--	"	"	
Parathion-methyl	"	26.2	---	157	"	"	ND	"	40.0%	"	--	"	"	
Parathion-ethyl	"	42.0	---	157	"	"	ND	"	64.2%	"	33.9%	"	"	
Phorate	"	45.1	---	157	"	"	ND	"	68.9%	"	10.4%	"	"	
Ronnel	"	40.8	---	157	"	"	ND	"	62.4%	"	15.7%	"	"	
Stirophos (Tetrachlorvinphos)	"	23.9	---	157	"	"	ND	"	36.5%	"	--	"	"	
Tokuthion (Prothiofos)	"	48.9	---	157	"	"	ND	"	74.7%	"	7.70%	"	"	
Trichloronate	"	49.3	---	157	"	"	ND	"	75.3%	"	3.90%	"	"	
Surrogate(s): TBP		*Recovery: 79.7%*			*Limits: 40-140%*								*09/12/09 00:51*	*Z3*
TPP		*341%*			*35-145%*								*"*	*Z3*

TestAmerica Portland

Christina Woodcock, Project Manager

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

TestAmerica Honolulu	Project Name:	**Kohala Sugar**	
99-193 Aiea Heights Drive-Ste. 121	Project Number:	HSH0123	Report Created:
Aiea, HI 96701-3900	Project Manager:	Marvin D. Heskett III	09/14/09 15:52

Notes and Definitions

Report Specific Notes:

L	-	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
M4	-	The sample required a dilution due to matrix interference. Because of this dilution, the matrix spike concentrations in the sample were reduced to a level where the recovery calculation does not provide useful information. See Blank Spike (LCS).
RL1	-	Reporting limit raised due to sample matrix effects.
Z	-	Due to sample matrix effects, the surrogate recovery was below the acceptance limits.
Z3	-	The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.
ZX	-	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

DET	-	Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
ND	-	Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
NR/NA	-	Not Reported / Not Available
dry	-	Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
wet	-	Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
RPD	-	RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
MRL	-	METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
MDL*	-	METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
Dil	-	Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
Reporting Limits	-	Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
Electronic Signature	-	Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy.* Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Portland

Christina M. Woodcock

Christina Woodcock, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

SUBCONTRACT ORDER

TestAmerica Honolulu

HSH0123

PSH0869

SENDING LABORATORY:

TestAmerica Honolulu
99-193 Aiea Heights Drive, Suite 121
Aiea, HI 96701
Phone: 808-486-5227
Fax: 808-486-2456
Project Manager: Marvin D. Heskett III
Client: Department of Health, HEER Office

RECEIVING LABORATORY:

TestAmerica Portland
9405 S.W. Nibus Avenue
Beaverton, OREGON 97008
Phone :(503) 906-9200
Fax: (503) 906-9220
Project Location: HI - HAWAII
Receipt Temperature: 3.0 °C Ice: (Y) / N

Analysis	Units	Due	Expires	Interlab Price	Surch	Comments
Sample ID: HSH0123-01	**Solid/Soil**		Sampled: **08/17/09 00:00**			
8141A Organophosphorus P	ug/kg	09/01/09	09/26/09 00:00	$180.00	0%	
Containers Supplied:						
Incremental Sub-sample (analyze entire content) (C)	3x 2oz jars					
Sample ID: HSH0123-02	**Solid/Soil**		Sampled: **08/17/09 00:00**			
8141A Organophosphorus P	ug/kg	09/01/09	09/26/09 00:00	$180.00	0%	
Containers Supplied:						
Incremental Sub-sample (analyze entire content) (C)	2x 2oz jars					
Sample ID: HSH0123-03	**Solid/Soil**		Sampled: **08/17/09 00:00**			
8141A Organophosphorus P	ug/kg	09/01/09	09/26/09 00:00	$180.00	0%	
Containers Supplied:						
Incremental Sub-sample (analyze entire content) (C)	"		"			
Sample ID: HSH0123-04	**Solid/Soil**		Sampled: **08/18/09 00:00**			
8141A Organophosphorus P	ug/kg	09/01/09	09/27/09 00:00	$180.00	0%	
Containers Supplied:						
Incremental Sub-sample (analyze entire content) (C)	"		"			
Sample ID: HSH0123-05	**Solid/Soil**		Sampled: **08/18/09 00:00**			
8141A Organophosphorus P	ug/kg	09/01/09	09/27/09 00:00	$180.00	0%	
Containers Supplied:						
Incremental Sub-sample (analyze entire content) (C)	"		"			

Released By	Date/Time	Received By	Date/Time
[signature]	8/27/09	[signature]	8/28/09 0835

SUBCONTRACT ORDER

TestAmerica Honolulu

HSH0123

PSH0869

Analysis	Units	Due	Expires	Interlab Price	Surch	Comments
Sample ID: HSH0123-06	**Solid/Soil**		Sampled: **08/18/09 00:00**			
8141A Organophosphorus P	ug/kg	09/01/09	09/27/09 00:00	$180.00	0%	
Containers Supplied:						
Incremental Sub-sample (analyze entire content) (C)	2x 2oz jars					

Do NOT dry weight correct. PS

TestAmerica Portland

Sample Receiving Checklist

Work Order #: PSH0869 Date/Time Received: 8/28/09 0835

Client Name and Project: TA - Honolulu HSH0123

Time Zone:

☐EDT/EST ☐CDT/CST ☐MDT/MST ☐PDT/PST ☐AK ☒OTHER HI

Unpacking Checks:

Cooler #(s): 1

Temperatures: 3.0

Digi #1 ☐ Digi #2 ☐ IR Gun ☒ (☐Plastic ☒Glass)

Temperature out of Range:

__Not enough or No Ice

__Ice Melted

__W/in 4 Hrs of collection

__Other:_____

Initials: K

N/A	Yes	No	
☒	☐	☐	1. If ESI client, were temp blanks received? If no, document on NOD.
☐	☐	☒	2. Cooler Seals intact? (N/A if hand delivered) if no, document on NOD. PS
	☒	☐	3. Chain of Custody present? If no, document on NOD.
	☒	☐	4. Bottles received intact? If no, document on NOD.
	☒	☐	5. Sample is not multiphasic? If no, document on NOD.
	☒	☐	6. Proper Container and preservatives used? If no, document on NOD.
☒	☐	☐	7. pH of all samples checked and meet requirements? If no, document on NOD.
☒	☐	☐	8. Cyanide samples checked for sulfides and meet requirements? If no, notify PM.
☒	☐	☐	9. HF Dilution required?
	☒	☐	10. Sufficient volume provided for all analysis? If no, document on NOD and consult PM before proceeding.
K	☒	☒	11. Did chain of custody agree with samples received? If no, document on NOD. ~~NO DATE & TIME ON SAMPLES~~ ~~# OF CONTAINERS NOTED~~ K
	☐	☒	12. Is the "Sampled by" section of the COC completed?
☒	☐	☐	13. Were VOA/Oil Syringe samples without headspace?
☒	☐	☐	14. Were VOA vials preserved? ☐HCl ☐Sodium Thiosulfate ☐Ascorbic Acid
	☐	☒	15. Did samples require preservation with sodium thiosulfate?
☒	☐	☐	16. If yes to #14, was the residual chlorine test negative? If no, document on NOD.
☒	☐	☐	17. Are dissolved/field filtered metals bottles sediment-free? If no, document on NOD.
☒	☐	☐	18. Is sufficient volume provided for client requested MS/MSD or matrix duplicates? If no, document on NOD and contact PM before proceeding.
☒	☐	☐	19. Are analyses with short holding times received in hold?
	☐	☒	20. Was Standard Turn Around (TAT) requested?
	☐	☒	21. Receipt date(s) < 48 hours past the collection date(s)? If no, notify PM. PS

TestAmerica Portland

Sample Receiving Checklist

Work Order #: PSH0869

Login Checks:

Initials: PS

N/A	Yes	No	
	☑	☐	22. Sufficient volume provided for all analysis? If no, document on NOD & contact PM.
☑	☐	☐	23. Sufficient volume provided for client requested MS/MSD or matrix duplicates? If no, document on NOD and contact PM.
	☑	☐	24. Did the chain of custody include "received by" and "relinquished by" signatures, dates and times?
☑	☐	☐	25. Were special log in instructions read and followed?
	☑	☐	26. Were tests logged checked against the COC?
☑	☐	☐	27. Were rush notices printed and delivered?
☑	☐	☐	28. Were short hold notices printed and delivered?
☑	☐	☐	29. Were subcontract COCs printed?
☑	☐	☐	30. Was HF dilution logged?

Labeling and Storage Checks:

Initials: [illegible]

N/A	Yes	No	
☒	☐	☐	31. Were the subcontracted samples/containers put in Sx fridge?
☒	☐	☐	32. Were sample bottles and COC double checked for dissolved/filtered metals?
	☒	☐	33. Did the sample ID, Date, and Time from label match what was logged?
☐	☑	☐	34. Were Foreign sample stickers affixed to each container and containers stored in foreign fridge?
☒	☐	☐	35. Were HF stickers affixed to each container, and containers stored in Sx fridge?
☐	☒	☐	36. Was an NOD for created for noted discrepancies and placed in folder?

Document any problems or discrepancies and the actions taken to resolve them on a Notice of Discrepancy form (NOD).

APPENDIX B

LABORATORY REPORT FOR DECEMBER 2010 WESTON SAMPLING EVENT

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Honolulu
99-193 Aiea Heights Drive, Suite 121
Aiea, HI 96701
Tel: 808-486-5227

TestAmerica Job ID: HTL0133
TestAmerica Sample Delivery Group: HTL0133
Client Project/Site: Kohala Sugar Company, 12767.063.594.1121
Client Project Description:
Brownfield Site Assessment - Kohala Sugar Company

For:
Weston Solutions, Inc.
Davies Pacific Center - 841 Bishop Street, Suite 2301
Honolulu, HI 96813

Attn: Ben Castellana

Authorized for release by:
2/28/2011 2:31 PM
Marvin D. Heskett III
Laboratory Director
marvin.heskett@testamericainc.com

Designee for

Margie Pascua
Analyst
margie.pascua@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

LINKS
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Qualifiers

GCMS Semivolatiles

Qualifier	Qualifier Description
A-01	Sample was spiked twice with IS. To account for this, the sample is listed as a 2x. The RLs and MDLs should be preserved at the same limits as a 1x.
H1	Sample analysis performed past the method-specified holding time per client's approval.
J	Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
R2	The RPD exceeded the acceptance limit.

GCMS-Semivolatiles

Qualifier	Qualifier Description
J	Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
M2	The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
RL1	Reporting limit raised due to sample matrix effects.
RL2	Reporting limit raised due to high concentrations of hydrocarbons.

Pesticides

Qualifier	Qualifier Description
C-1	Calibration Verification recovery was above the method control limit for this analyte, however the average % difference for all analytes met method criteria. See Calibration Summary form. 116
C-1a	Calibration Verification recovery was above the method control limit for this analyte, however the average % difference for all analytes met method criteria. See Calibration Summary form. 116, 135
C-1b	Calibration Verification recovery was above the method control limit for this analyte, however the average % difference for all analytes met method criteria. See Calibration Summary form. 117
C-1c	Calibration Verification recovery was above the method control limit for this analyte, however the average % difference for all analytes met method criteria. See Calibration Summary form. 118
C-1d	Calibration Verification recovery was above the method control limit for this analyte, however the average % difference for all analytes met method criteria. See Calibration Summary form. 121
C-1e	Calibration Verification recovery was above the method control limit for this analyte, however the average % difference for all analytes met method criteria. See Calibration Summary form. 136
C-2	Calibration Verification recovery was below the method control limit for this analyte, however the average % difference for all analytes met method criteria. See Calibration Summary form. 61
C-2a	Calibration Verification recovery was below the method control limit for this analyte, however the average % difference for all analytes met method criteria. See Calibration Summary form. 65
C-2b	Calibration Verification recovery was below the method control limit for this analyte, however the average % difference for all analytes met method criteria. See Calibration Summary form. 81
C-2c	Calibration Verification recovery was below the method control limit for this analyte, however the average % difference for all analytes met method criteria. See Calibration Summary form. 81
H-1	Sample analysis performed past the method-specified holding time per client's approval.
H3	Sample was received and analyzed past holding time.
J	Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
MNR	No results were reported for the MS/MSD. The sample used for the MS/MSD required dilution due to the sample matrix. Because of this, the spike compounds were diluted below the detection limit.
MNR1	There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
R-10	The RPD between the primary and confirmatory analysis exceeded 40%. Per method 8000B, the lower value was reported due to apparent chromatographic problems.
RL4	Reporting limit raised due to insufficient sample volume.

DIOXIN

Qualifier	Qualifier Description
a	Spiked analyte recovery is outside stated control limits.
CON	Confirmation analysis.
E	Estimated result. Result concentration exceeds the calibration range.
G	Elevated reporting limit. The reporting limit is elevated due to matrix interference.

Metals

Qualifier	Qualifier Description
J	Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
M1	The MS and/or MSD were outside the acceptance limits due to sample matrix interference. See Blank Spike (LCS).

Glossary

Glossary (Continued)

Glossary	Glossary Description
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis.

Job ID: HTL0133

Laboratory: TestAmerica Honolulu

Narrative

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory unless otherwise stated in the report. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. TestAmerica Analytical Testing Corporation certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

The Chain(s) of Custody are included and are an integral part of this report. This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(808)486-5227

LABORATORY REPORT

The Cooler temp was 2 C at receipt.

NELAC states that samples which require thermal preservation shall be considered acceptable if the arrival temperature is within 2 degrees C of the required temperature or the method specified range. For samples with a temperature requirement of 4 degrees C, an arrival temperature from 0 degrees C to 6 degrees C meets specifications. Samples that are delivered to the laboratory on the same day that they are collected may not meet these criteria. In these cases, the samples are considered acceptable if there is evidence that the chilling process has begun, such as arrival on ice.

The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

Samples were prepared in accordance with the State of Hawai'i Department of Health Office of Hazard Evaluation and Emergency Response's Technical Guidance Manual for the Implementation of the Hawai`i State Contingency Plan 2009 edition Laboratory Preparation of Multi-Increment Samples. Additionally Hg and 8270 PAHs were subsampled moist, before drying as per instructions provided by client. Samples wre dry weight corrected using a percent moisture taken from an Incremental sample.

Holding times were missed on several samples as incremental sub sampling was delayed by wet sub sampling protocols and sample moisture.

Holding times on method 8081 were missed on 8081 soil samples as samples wer not subcontracted by Testamerica Honolulu on time.

Pentachlorophenol by 8270 was added upon client request after the holding time was exceeded.

Sample HTL0133-14 was analyzed passed the EPA recommended holding time by Testamerica Irvine on 2/25/11 as the sample was overlooked in login.

Sample Summary

Client: Weston Solutions, Inc.
Project/Site: Kohala Sugar Company, 12767.063.594.1121

TestAmerica Job ID: HTL0133

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
HTL0133-01	DU-07	Solid/Soil	12/13/10 10:45	12/17/10 15:05
HTL0133-02	DU-8	Solid/Soil	12/13/10 16:45	12/17/10 15:05
HTL0133-03	DU-18	Solid/Soil	12/13/10 14:30	12/17/10 15:05
HTL0133-04	DU-19	Solid/Soil	12/13/10 17:55	12/17/10 15:05
HTL0133-05	EQ-1	Water - NonPotable	12/13/10 17:10	12/17/10 15:05
HTL0133-06	DU-10	Solid/Soil	12/14/10 10:20	12/17/10 15:05
HTL0133-07	DU-5-2	Solid/Soil	12/14/10 11:45	12/17/10 15:05
HTL0133-08	DU-6-2	Solid/Soil	12/14/10 13:50	12/17/10 15:05
HTL0133-09	DU-9-2	Solid/Soil	12/14/10 15:00	12/17/10 15:05
HTL0133-10	EQ-2	Water - NonPotable	12/14/10 15:10	12/17/10 15:05
HTL0133-11	DU-13-4	Solid/Soil	12/15/10 11:30	12/17/10 15:05
HTL0133-12	DU-12-4	Solid/Soil	12/15/10 11:50	12/17/10 15:05
HTL0133-13	EQ-3	Water - NonPotable	12/14/10 12:05	12/17/10 15:05
HTL0133-14	DU-11	Solid/Soil	12/15/10 15:05	12/17/10 15:05
HTL0133-15	DU-20	Solid/Soil	12/15/10 16:10	12/17/10 15:05
HTL0133-16	TS-1	Water - NonPotable	12/14/10 12:05	12/17/10 15:05

Detection Summary

Client: Weston Solutions, Inc.
Project/Site: Kohala Sugar Company, 12767.063.594.1121

TestAmerica Job ID: HTL0133
SDG: HTL0133

Client Sample ID: DU-07 — Lab Sample ID: HTL0133-01

Analyte		Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pentachlorophenol		0.309	H1 J	0.325	0.0824	mg/kg	1.00		EPA 8270	total
Acenaphthylene		10	J	44	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Acenaphthylene		10	J	44	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Anthracene		10	J	44	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Anthracene		10	J	44	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(a)anthracene		23	J	44	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(a)anthracene		23	J	44	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(a)pyrene		36	J	44	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(a)pyrene		36	J	44	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(b)fluoranthene		63	M2	44	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(b)fluoranthene		63	M2	44	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(g,h,i)perylene		32	J	44	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(g,h,i)perylene		32	J	44	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(k)fluoranthene		25	J	44	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(k)fluoranthene		25	J	44	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Chrysene		55	M2	44	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Chrysene		55	M2	44	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Dibenz(a,h)anthracene		7.7	J	44	3.6	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Dibenz(a,h)anthracene		7.7	J	44	3.6	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Fluoranthene		75	M2	44	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Fluoranthene		75	M2	44	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Fluorene		3.4	J	44	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Fluorene		3.4	J	44	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Indeno(1,2,3-cd)pyrene		34	J	44	3.6	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Indeno(1,2,3-cd)pyrene		34	J	44	3.6	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Phenanthrene		60	M2	44	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Phenanthrene		60	M2	44	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Pyrene		72		44	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Pyrene		72		44	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
2,3,7,8-TCDD	160		95	6.1	1	160 pg/g	95.2		8290	Total
Total TCDD	160		95	6.1		pg/g	95.2		8290	Total
1,2,3,4,7,8-HxCDD	620		480	12	0.1	62 pg/g	95.2		8290	Total
1,2,3,6,7,8-HxCDD	4000		480	11	0.1	400 pg/g	95.2		8290	Total
1,2,3,7,8,9-HxCDD	1500		480	11	0.1	150 pg/g	95.2		8290	Total
Total HxCDD	18000		480	11		pg/g	95.2		8290	Total
1,2,3,4,6,7,8-HpCDD	100000		480	180	0.01	1000 pg/g	95.2		8290	Total
Total HpCDD	200000		480	180		pg/g	95.2		8290	Total
OCDD	1100000	E	950	970	0.001	1100 pg/g	95.2		8290	Total
Total TCDF	280		95	0.48		pg/g	95.2		8290	Total
Total PeCDF	1100		480	8.7		pg/g	95.2		8290	Total
1,2,3,4,7,8-HxCDF	1000		480	25	0.1	100 pg/g	95.2		8290	Total
1,2,3,6,7,8-HxCDF	500		480	24	0.1	50 pg/g	95.2		8290	Total
Total HxCDF	37000		480	25		pg/g	95.2		8290	Total
1,2,3,4,6,7,8-HpCDF	40000		480	60	0.01	400 pg/g	95.2		8290	Total
1,2,3,4,7,8,9-HpCDF	2100		480	74	0.01	21 pg/g	95.2		8290	Total
Total HpCDF	170000		480	67		pg/g	95.2		8290	Total
OCDF	91000		950	94	0.001	91 pg/g	95.2		8290	Total
Arsenic Bio-accessible		8.56		1.00	0.0800	mg/kg	1.00		EPA 6010	total
Arsenic Total		88.2		1.00	0.0800	mg/kg	1.00		EPA 6010	total
Arsenic		66.9		9.36	0.0749	mg/kg	1.00		EPA 6010	total
Barium		123		18.7	0.0787	mg/kg	1.00		EPA 6010	total
Cadmium		0.211	J	3.75	0.0758	mg/kg	1.00		EPA 6010	total
Chromium		64.2		9.36	0.0684	mg/kg	1.00		EPA 6010	total
Lead		14.0	J	18.7	0.0655	mg/kg	1.00		EPA 6010	total

Client Sample ID: DU-07 (Continued) — Lab Sample ID: HTL0133-01

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	1.75	J	18.7	0.0843	mg/kg	1.00		EPA 6010	total
Silver	0.0899	J	9.36	0.00655	mg/kg	1.00		EPA 6010	total
Mercury	0.569		0.0368	0.000736	mg/kg dry	5.00	☼	EPA 7471	total
Arsenic Bio-accessible percent	9.70		0.200	0.100	% by Weight	1.00		SBRC Appendix C	total

Client Sample ID: DU-8 — Lab Sample ID: HTL0133-02

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pentachlorophenol	3.02	H1	0.329	0.0835	mg/kg	1.00		EPA 8270	total
Acenaphthylene	14	RL1 J	85	5.7	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Acenaphthylene	14	RL1 J	85	5.7	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Anthracene	26	RL1 J	85	5.7	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Anthracene	26	RL1 J	85	5.7	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(a)anthracene	41	RL1 J	85	5.7	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(a)anthracene	41	RL1 J	85	5.7	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(a)pyrene	41	RL1 J	85	5.7	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(a)pyrene	41	RL1 J	85	5.7	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(b)fluoranthene	95	RL1	85	5.7	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(b)fluoranthene	95	RL1	85	5.7	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(g,h,i)perylene	58	RL1 J	85	5.7	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(g,h,i)perylene	58	RL1 J	85	5.7	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(k)fluoranthene	28	RL1 J	85	5.7	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(k)fluoranthene	28	RL1 J	85	5.7	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Chrysene	69	RL1 J	85	5.7	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Chrysene	69	RL1 J	85	5.7	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Dibenz(a,h)anthracene	13	RL1 J	85	7.1	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Dibenz(a,h)anthracene	13	RL1 J	85	7.1	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Fluoranthene	62	RL1 J	85	5.7	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Fluoranthene	62	RL1 J	85	5.7	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Indeno(1,2,3-cd)pyrene	39	RL1 J	85	7.1	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Indeno(1,2,3-cd)pyrene	39	RL1 J	85	7.1	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Naphthalene	12	RL1 J	85	9.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Naphthalene	12	RL1 J	85	9.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Phenanthrene	39	RL1 J	85	5.7	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Phenanthrene	39	RL1 J	85	5.7	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Pyrene	76	RL1 J	85	5.7	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Pyrene	76	RL1 J	85	5.7	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
4,4'-DDE	7.5	H-1 R-10	7.5	2.2	ug/kg	1.0		EPA 8081A	total
4,4'-DDE	7.5	H-1 R-10	7.5	2.2	ug/kg	1.0		EPA 8081A	total
4,4'-DDT	78	H-1	7.5	2.2	ug/kg	1.0		EPA 8081A	total
4,4'-DDT	78	H-1	7.5	2.2	ug/kg	1.0		EPA 8081A	total
Endosulfan sulfate	8.3	H-1 J	15	3.0	ug/kg	1.0		EPA 8081A	total
Endosulfan sulfate	8.3	H-1 J	15	3.0	ug/kg	1.0		EPA 8081A	total
Endrin ketone	6.2	H-1 J	7.5	3.0	ug/kg	1.0		EPA 8081A	total
Endrin ketone	6.2	H-1 J	7.5	3.0	ug/kg	1.0		EPA 8081A	total
2,3,7,8-TCDD	610	190	12	1	610 pg/g	193.61		8290	Total
Total TCDD	610	190	12		pg/g	193.61		8290	Total
1,2,3,6,7,8-HxCDD	6200	970	29	0.1	620 pg/g	193.61		8290	Total
1,2,3,7,8,9-HxCDD	1600	970	29	0.1	160 pg/g	193.61		8290	Total
Total HxCDD	26000	970	30		pg/g	193.61		8290	Total
1,2,3,4,6,7,8-HpCDD	170000	970	310	0.01	1700 pg/g	193.61		8290	Total
Total HpCDD	370000	970	310		pg/g	193.61		8290	Total
OCDD	1600000 E	1900	1200	0.001	1600 pg/g	193.61		8290	Total
Total TCDF	1100	190	6.0		pg/g	193.61		8290	Total

Client Sample ID: DU-8 (Continued) — Lab Sample ID: HTL0133-02

Analyte	Result	Qualifier	RL	EDL	TEF	TEQ	Unit	Dil Fac	D	Method	Prep Type
Total PeCDF	2800		970	20			pg/g	193.61		8290	Total
1,2,3,4,7,8-HxCDF	1800		970	50	0.1	180	pg/g	193.61		8290	Total
Total HxCDF	61000		970	51			pg/g	193.61		8290	Total
1,2,3,4,6,7,8-HpCDF	58000		970	59	0.01	580	pg/g	193.61		8290	Total
1,2,3,4,7,8,9-HpCDF	4100		970	73	0.01	41	pg/g	193.61		8290	Total
Total HpCDF	270000		970	66			pg/g	193.61		8290	Total
OCDF	130000		1900	66	0.001	130	pg/g	193.61		8290	Total
Arsenic Bio-accessible	519			1.00	0.0800		mg/kg	1.00		EPA 6010	total
Arsenic Total	2660			48.1	3.85		mg/kg	50.0		EPA 6010	total
Arsenic	2030			97.9	0.784		mg/kg	10.0		EPA 6010	total
Barium	153			19.6	0.0823		mg/kg	1.00		EPA 6010	total
Cadmium	1.12	J		3.92	0.0793		mg/kg	1.00		EPA 6010	total
Chromium	89.1			9.79	0.0715		mg/kg	1.00		EPA 6010	total
Lead	89.8			19.6	0.0686		mg/kg	1.00		EPA 6010	total
Selenium	2.82	J		19.6	0.0881		mg/kg	1.00		EPA 6010	total
Mercury	6.92			0.373	0.00746		mg/kg dry	50.0	☼	EPA 7471	total
Arsenic Bio-accessible percent	19.5			0.200	0.100		% by Weight	1.00		SBRC Appendix C	total

Client Sample ID: DU-18 — Lab Sample ID: HTL0133-03

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pentachlorophenol	4.81	H1	1.49	0.379	mg/kg	5.00		EPA 8270	total
Acenaphthylene	11	RL1 J	83	5.5	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Acenaphthylene	11	RL1 J	83	5.5	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Anthracene	24	RL1 J	83	5.5	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Anthracene	24	RL1 J	83	5.5	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(a)anthracene	44	RL1 J	83	5.5	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(a)anthracene	44	RL1 J	83	5.5	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(a)pyrene	52	RL1 J	83	5.5	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(a)pyrene	52	RL1 J	83	5.5	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(b)fluoranthene	120	RL1	83	5.5	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(b)fluoranthene	120	RL1	83	5.5	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(g,h,i)perylene	63	RL1 J	83	5.5	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(g,h,i)perylene	63	RL1 J	83	5.5	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(k)fluoranthene	33	RL1 J	83	5.5	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(k)fluoranthene	33	RL1 J	83	5.5	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Chrysene	80	RL1 J	83	5.5	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Chrysene	80	RL1 J	83	5.5	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Dibenz(a,h)anthracene	16	RL1 J	83	6.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Dibenz(a,h)anthracene	16	RL1 J	83	6.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Fluoranthene	81	RL1 J	83	5.5	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Fluoranthene	81	RL1 J	83	5.5	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Indeno(1,2,3-cd)pyrene	46	RL1 J	83	6.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Indeno(1,2,3-cd)pyrene	46	RL1 J	83	6.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Naphthalene	12	RL1 J	83	9.6	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Naphthalene	12	RL1 J	83	9.6	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Phenanthrene	54	RL1 J	83	5.5	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Phenanthrene	54	RL1 J	83	5.5	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Pyrene	94	RL1	83	5.5	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Pyrene	94	RL1	83	5.5	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
4,4'-DDE	5.9	H-1 J	7.5	2.2	ug/kg	1.0		EPA 8081A	total
4,4'-DDE	5.9	H-1 J	7.5	2.2	ug/kg	1.0		EPA 8081A	total
4,4'-DDT	75	H-1	7.5	2.2	ug/kg	1.0		EPA 8081A	total
4,4'-DDT	75	H-1	7.5	2.2	ug/kg	1.0		EPA 8081A	total

Client Sample ID: DU-18 (Continued) — Lab Sample ID: HTL0133-03

Analyte			Result	Qualifier	RL	MDL	Unit		Dil Fac	D	Method	Prep Type
Endosulfan sulfate			8.3	H-1 J	15	3.0	ug/kg		1.0		EPA 8081A	total
Endosulfan sulfate			8.3	H-1 J	15	3.0	ug/kg		1.0		EPA 8081A	total
Endrin ketone			7.6	H-1	7.5	3.0	ug/kg		1.0		EPA 8081A	total
Endrin ketone			7.6	H-1	7.5	3.0	ug/kg		1.0		EPA 8081A	total
Methoxychlor			2.6	H-1 J	7.5	2.2	ug/kg		1.0		EPA 8081A	total
Methoxychlor			2.6	H-1 J	7.5	2.2	ug/kg		1.0		EPA 8081A	total
2,3,7,8-TCDD	710		190		12	1	710	pg/g	194.36		8290	Total
Total TCDD	710		190		12			pg/g	194.36		8290	Total
1,2,3,6,7,8-HxCDD	5500		970		40	0.1	550	pg/g	194.36		8290	Total
1,2,3,7,8,9-HxCDD	1300		970		40	0.1	130	pg/g	194.36		8290	Total
Total HxCDD	22000		970		42			pg/g	194.36		8290	Total
1,2,3,4,6,7,8-HpCDD	140000		970		190	0.01	1400	pg/g	194.36		8290	Total
Total HpCDD	290000		970		190			pg/g	194.36		8290	Total
OCDD	1400000	E	1900		1100	0.001	1400	pg/g	194.36		8290	Total
Total TCDF	1300		190		5.3			pg/g	194.36		8290	Total
Total PeCDF	3100		970		18			pg/g	194.36		8290	Total
1,2,3,4,7,8-HxCDF	1700		970		33	0.1	170	pg/g	194.36		8290	Total
Total HxCDF	58000		970		33			pg/g	194.36		8290	Total
1,2,3,4,6,7,8-HpCDF	54000		970		99	0.01	540	pg/g	194.36		8290	Total
1,2,3,4,7,8,9-HpCDF	3900		970		120	0.01	39	pg/g	194.36		8290	Total
Total HpCDF	240000		970		110			pg/g	194.36		8290	Total
OCDF	110000		1900		100	0.001	110	pg/g	194.36		8290	Total
Arsenic			1440		96.1	0.768	mg/kg		10.0		EPA 6010	total
Barium			144		19.2	0.0807	mg/kg		1.00		EPA 6010	total
Cadmium			0.825	J	3.84	0.0778	mg/kg		1.00		EPA 6010	total
Chromium			91.4		9.61	0.0701	mg/kg		1.00		EPA 6010	total
Lead			83.4		19.2	0.0672	mg/kg		1.00		EPA 6010	total
Selenium			2.61	J	19.2	0.0865	mg/kg		1.00		EPA 6010	total
Silver			0.0778	J	9.61	0.00672	mg/kg		1.00		EPA 6010	total
Mercury			2.96		0.141	0.00282	mg/kg dry		20.0	☼	EPA 7471	total

Client Sample ID: DU-19 — Lab Sample ID: HTL0133-04

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pentachlorophenol	1.87	H1	0.326	0.0827	mg/kg	1.00		EPA 8270	total
Acenaphthylene	26	RL1 J	84	5.6	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Acenaphthylene	26	RL1 J	84	5.6	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Anthracene	100	RL1	84	5.6	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Anthracene	100	RL1	84	5.6	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(a)anthracene	110	RL1	84	5.6	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(a)anthracene	110	RL1	84	5.6	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(a)pyrene	130	RL1	84	5.6	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(a)pyrene	130	RL1	84	5.6	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(b)fluoranthene	250	RL1	84	5.6	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(b)fluoranthene	250	RL1	84	5.6	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(g,h,i)perylene	150	RL1	84	5.6	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(g,h,i)perylene	150	RL1	84	5.6	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(k)fluoranthene	56	RL1 J	84	5.6	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(k)fluoranthene	56	RL1 J	84	5.6	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Chrysene	210	RL1	84	5.6	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Chrysene	210	RL1	84	5.6	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Dibenz(a,h)anthracene	37	RL1 J	84	7.0	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Dibenz(a,h)anthracene	37	RL1 J	84	7.0	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Fluoranthene	180	RL1	84	5.6	ug/kg dry	1.0	☼	EPA 8270C-SIM	total

Client Sample ID: DU-19 (Continued) — Lab Sample ID: HTL0133-04

Analyte			Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene			180	RL1	84	5.6	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Fluorene			12	RL1 J	84	5.6	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Fluorene			12	RL1 J	84	5.6	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Indeno(1,2,3-cd)pyrene			94	RL1	84	7.0	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Indeno(1,2,3-cd)pyrene			94	RL1	84	7.0	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Naphthalene			15	RL1 J	84	9.8	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Naphthalene			15	RL1 J	84	9.8	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Phenanthrene			97	RL1	84	5.6	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Phenanthrene			97	RL1	84	5.6	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Pyrene			210	RL1	84	5.6	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Pyrene			210	RL1	84	5.6	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
4,4'-DDE			4.0	H-1 J	7.5	2.2	ug/kg	1.0		EPA 8081A	total
4,4'-DDE			4.0	H-1 J	7.5	2.2	ug/kg	1.0		EPA 8081A	total
4,4'-DDT			54	H-1	7.5	2.2	ug/kg	1.0		EPA 8081A	total
4,4'-DDT			54	H-1	7.5	2.2	ug/kg	1.0		EPA 8081A	total
Endrin ketone			9.8	H-1	7.5	3.0	ug/kg	1.0		EPA 8081A	total
Endrin ketone			9.8	H-1	7.5	3.0	ug/kg	1.0		EPA 8081A	total
2,3,7,8-TCDD	710			240	15	1	710 pg/g	240.62		8290	Total
Total TCDD	710			240	15		pg/g	240.62		8290	Total
1,2,3,6,7,8-HxCDD	5500			1200	28	0.1	550 pg/g	240.62		8290	Total
1,2,3,7,8,9-HxCDD	1300			1200	27	0.1	130 pg/g	240.62		8290	Total
Total HxCDD	22000			1200	29		pg/g	240.62		8290	Total
1,2,3,4,6,7,8-HpCDD	140000			1200	200	0.01	1400 pg/g	240.62		8290	Total
Total HpCDD	280000			1200	200		pg/g	240.62		8290	Total
OCDD	1400000	E		2400	1400	0.001	1400 pg/g	240.62		8290	Total
Total TCDF	1400			240	4.2		pg/g	240.62		8290	Total
Total PeCDF	2000			1200	20		pg/g	240.62		8290	Total
1,2,3,4,7,8-HxCDF	1800			1200	44	0.1	180 pg/g	240.62		8290	Total
Total HxCDF	54000			1200	44		pg/g	240.62		8290	Total
1,2,3,4,6,7,8-HpCDF	50000			1200	110	0.01	500 pg/g	240.62		8290	Total
1,2,3,4,7,8,9-HpCDF	3300			1200	130	0.01	33 pg/g	240.62		8290	Total
Total HpCDF	220000			1200	120		pg/g	240.62		8290	Total
OCDF	120000			2400	160	0.001	120 pg/g	240.62		8290	Total
Arsenic Bio-accessible			660		1.00	0.0800	mg/kg	1.00		EPA 6010	total
Arsenic Total			3160		48.5	3.88	mg/kg	50.0		EPA 6010	total
Arsenic			2440		94.5	0.756	mg/kg	10.0		EPA 6010	total
Barium			147		18.9	0.0794	mg/kg	1.00		EPA 6010	total
Cadmium			0.811	J	3.78	0.0766	mg/kg	1.00		EPA 6010	total
Chromium			77.9		9.45	0.0690	mg/kg	1.00		EPA 6010	total
Lead			62.8		18.9	0.0662	mg/kg	1.00		EPA 6010	total
Selenium			2.26	J	18.9	0.0851	mg/kg	1.00		EPA 6010	total
Mercury			3.03		0.143	0.00286	mg/kg dry	20.0	☼	EPA 7471	total
Arsenic Bio-accessible percent			20.9		0.200	0.100	% by Weight	1.00		SBRC Appendix C	total

Client Sample ID: EQ-1 — Lab Sample ID: HTL0133-05

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	0.0625	H1, J	0.206	0.0351	ug/L	1.00		EPA 8270 SIM	total
Benzo (a) anthracene	0.0351	H1, J	0.206	0.0324	ug/L	1.00		EPA 8270 SIM	total
Fluoranthene	0.0611	H1, J	0.206	0.0349	ug/L	1.00		EPA 8270 SIM	total
Phenanthrene	0.0221	H1, J	0.206	0.0202	ug/L	1.00		EPA 8270 SIM	total

Client Sample ID: DU-10 — Lab Sample ID: HTL0133-06

Client Sample ID: DU-10 (Continued) — Lab Sample ID: HTL0133-06

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pentachlorophenol	0.567	H1	0.316	0.0803	mg/kg	1.00		EPA 8270	total
Acenaphthene	10	RL1 J	81	5.4	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Acenaphthene	10	RL1 J	81	5.4	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Acenaphthylene	5.8	RL1 J	81	5.4	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Acenaphthylene	5.8	RL1 J	81	5.4	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Anthracene	44	RL1 J	81	5.4	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Anthracene	44	RL1 J	81	5.4	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(a)anthracene	150	RL1	81	5.4	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(a)anthracene	150	RL1	81	5.4	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(a)pyrene	150	RL1	81	5.4	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(a)pyrene	150	RL1	81	5.4	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(b)fluoranthene	260	RL1	81	5.4	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(b)fluoranthene	260	RL1	81	5.4	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(g,h,i)perylene	120	RL1	81	5.4	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(g,h,i)perylene	120	RL1	81	5.4	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(k)fluoranthene	70	RL1 J	81	5.4	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(k)fluoranthene	70	RL1 J	81	5.4	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Chrysene	180	RL1	81	5.4	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Chrysene	180	RL1	81	5.4	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Dibenz(a,h)anthracene	27	RL1 J	81	6.8	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Dibenz(a,h)anthracene	27	RL1 J	81	6.8	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Fluoranthene	290	RL1	81	5.4	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Fluoranthene	290	RL1	81	5.4	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Fluorene	12	RL1 J	81	5.4	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Fluorene	12	RL1 J	81	5.4	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Indeno(1,2,3-cd)pyrene	93	RL1	81	6.8	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Indeno(1,2,3-cd)pyrene	93	RL1	81	6.8	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Naphthalene	14	RL1 J	81	9.5	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Naphthalene	14	RL1 J	81	9.5	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Phenanthrene	230	RL1	81	5.4	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Phenanthrene	230	RL1	81	5.4	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Pyrene	280	RL1	81	5.4	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Pyrene	280	RL1	81	5.4	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
4,4'-DDT	8.6	H-1	7.5	2.2	ug/kg	1.0		EPA 8081A	total
4,4'-DDT	8.6	H-1	7.5	2.2	ug/kg	1.0		EPA 8081A	total
alpha-BHC	3.7	H-1 J	7.5	2.2	ug/kg	1.0		EPA 8081A	total
alpha-BHC	3.7	H-1 J	7.5	2.2	ug/kg	1.0		EPA 8081A	total
delta-BHC	8.3	H-1 J	15	2.2	ug/kg	1.0		EPA 8081A	total
delta-BHC	8.3	H-1 J	15	2.2	ug/kg	1.0		EPA 8081A	total
Endosulfan sulfate	3.1	H-1 J	15	3.0	ug/kg	1.0		EPA 8081A	total
Endosulfan sulfate	3.1	H-1 J	15	3.0	ug/kg	1.0		EPA 8081A	total
Endrin ketone	3.6	H-1 J	7.5	3.0	ug/kg	1.0		EPA 8081A	total
Endrin ketone	3.6	H-1 J	7.5	3.0	ug/kg	1.0		EPA 8081A	total
Methoxychlor	2.3	H-1 J	7.5	2.2	ug/kg	1.0		EPA 8081A	total
Methoxychlor	2.3	H-1 J	7.5	2.2	ug/kg	1.0		EPA 8081A	total
2,3,7,8-TCDD	430	91	6.2	1	430 pg/g	90.9		8290	Total
Total TCDD	430	91	6.2		pg/g	90.9		8290	Total
1,2,3,6,7,8-HxCDD	1900	450	13	0.1	190 pg/g	90.9		8290	Total
1,2,3,7,8,9-HxCDD	470	450	13	0.1	47 pg/g	90.9		8290	Total
Total HxCDD	7600	450	13		pg/g	90.9		8290	Total
1,2,3,4,6,7,8-HpCDD	54000	450	74	0.01	540 pg/g	90.9		8290	Total
Total HpCDD	110000	450	74		pg/g	90.9		8290	Total
OCDD	630000 E	910	540	0.001	630 pg/g	90.9		8290	Total
Total TCDF	210	91	2.7		pg/g	90.9		8290	Total

Client Sample ID: DU-10 (Continued) — Lab Sample ID: HTL0133-06

Analyte	Result	Qualifier	RL	EDL	TEF	TEQ	Unit	Dil Fac	D	Method	Prep Type
Total PeCDF	490		450	7.2			pg/g	90.9		8290	Total
1,2,3,4,7,8-HxCDF	590		450	11	0.1	59	pg/g	90.9		8290	Total
Total HxCDF	18000		450	11			pg/g	90.9		8290	Total
1,2,3,4,6,7,8-HpCDF	18000		450	30	0.01	180	pg/g	90.9		8290	Total
1,2,3,4,7,8,9-HpCDF	1100		450	37	0.01	11	pg/g	90.9		8290	Total
Total HpCDF	80000		450	33			pg/g	90.9		8290	Total
OCDF	47000		910	23	0.001	47	pg/g	90.9		8290	Total
Arsenic Bio-accessible	176			1.00	0.0800		mg/kg	1.00		EPA 6010	total
Arsenic Total	905			9.71	0.777		mg/kg	10.0		EPA 6010	total
Arsenic	714			99.2	0.794		mg/kg	10.0		EPA 6010	total
Barium	117			19.8	0.0833		mg/kg	1.00		EPA 6010	total
Cadmium	0.302	J		3.97	0.0804		mg/kg	1.00		EPA 6010	total
Chromium	58.7			9.92	0.0724		mg/kg	1.00		EPA 6010	total
Lead	43.9			19.8	0.0694		mg/kg	1.00		EPA 6010	total
Selenium	2.42	J		19.8	0.0893		mg/kg	1.00		EPA 6010	total
Mercury	1.60			0.0672	0.00134		mg/kg dry	10.0	☼	EPA 7471	total
Arsenic Bio-accessible percent	19.5			0.200	0.100		% by Weight	1.00		SBRC Appendix C	total

Client Sample ID: DU-5-2 — Lab Sample ID: HTL0133-07

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pentachlorophenol	0.498	H1	0.333	0.0847	mg/kg	1.00		EPA 8270	total
Anthracene	4.7	J	43	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Anthracene	4.7	J	43	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(a)anthracene	3.5	J	43	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(a)anthracene	3.5	J	43	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(a)pyrene	4.6	J	43	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(a)pyrene	4.6	J	43	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(b)fluoranthene	8.3	J	43	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(b)fluoranthene	8.3	J	43	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(g,h,i)perylene	6.1	J	43	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(g,h,i)perylene	6.1	J	43	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(k)fluoranthene	3.1	J	43	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(k)fluoranthene	3.1	J	43	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Chrysene	6.8	J	43	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Chrysene	6.8	J	43	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Fluoranthene	6.8	J	43	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Fluoranthene	6.8	J	43	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Indeno(1,2,3-cd)pyrene	3.6	J	43	3.6	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Indeno(1,2,3-cd)pyrene	3.6	J	43	3.6	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Phenanthrene	14	J	43	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Phenanthrene	14	J	43	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Pyrene	7.5	J	43	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Pyrene	7.5	J	43	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
alpha-BHC	4.4	H-1, RL4 J	7.4	2.2	ug/kg	1.0		EPA 8081A	total
alpha-BHC	4.4	H-1, RL4 J	7.4	2.2	ug/kg	1.0		EPA 8081A	total
delta-BHC	2.2	H-1, RL4 J	15	2.2	ug/kg	1.0		EPA 8081A	total
delta-BHC	2.2	H-1, RL4 J	15	2.2	ug/kg	1.0		EPA 8081A	total
Endrin	2.9	H-1, RL4 J	7.4	2.2	ug/kg	1.0		EPA 8081A	total
Endrin	2.9	H-1, RL4 J	7.4	2.2	ug/kg	1.0		EPA 8081A	total
1,2,3,6,7,8-HxCDD	660		98	5.8	0.1	66	pg/g	19.6	8290	Total
1,2,3,7,8,9-HxCDD	180		98	5.7	0.1	18	pg/g	19.6	8290	Total
Total HxCDD	2500		98	6.0			pg/g	19.6	8290	Total
1,2,3,4,6,7,8-HpCDD	16000		98	34	0.01	160	pg/g	19.6	8290	Total

Client Sample ID: DU-5-2 (Continued) — Lab Sample ID: HTL0133-07

Analyte	Result	Qualifier	RL	EDL	TEF	TEQ	Unit	Dil Fac	D	Method	Prep Type
Total HpCDD	31000		98	34			pg/g	19.6		8290	Total
OCDD	190000	E	200	180	0.001	190	pg/g	19.6		8290	Total
Total TCDF	36		20	0.76			pg/g	19.6		8290	Total
Total PeCDF	200		98	2.7			pg/g	19.6		8290	Total
1,2,3,4,7,8-HxCDF	130		98	5.0	0.1	13	pg/g	19.6		8290	Total
Total HxCDF	6000		98	5.0			pg/g	19.6		8290	Total
1,2,3,4,6,7,8-HpCDF	5800		98	9.6	0.01	58	pg/g	19.6		8290	Total
1,2,3,4,7,8,9-HpCDF	320		98	12	0.01	3.2	pg/g	19.6		8290	Total
Total HpCDF	25000		98	11			pg/g	19.6		8290	Total
OCDF	11000		200	10	0.001	11	pg/g	19.6		8290	Total
Arsenic Bio-accessible	54.7			1.00	0.0800		mg/kg	1.00		EPA 6010	total
Arsenic Total	498			9.26	0.741		mg/kg	10.0		EPA 6010	total
Arsenic	306			9.86	0.0789		mg/kg	1.00		EPA 6010	total
Barium	83.8			19.7	0.0828		mg/kg	1.00		EPA 6010	total
Cadmium	0.369	J		3.94	0.0799		mg/kg	1.00		EPA 6010	total
Chromium	77.6			9.86	0.0720		mg/kg	1.00		EPA 6010	total
Lead	20.1			19.7	0.0690		mg/kg	1.00		EPA 6010	total
Selenium	2.74	J		19.7	0.0888		mg/kg	1.00		EPA 6010	total
Silver	0.341	J		9.86	0.00690		mg/kg	1.00		EPA 6010	total
Mercury	0.556			0.0651	0.00130		mg/kg dry	10.0	☼	EPA 7471	total
Arsenic Bio-accessible percent	11.0			0.200	0.100		% by Weight	1.00		SBRC Appendix C	total

Client Sample ID: DU-6-2 — Lab Sample ID: HTL0133-08

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pentachlorophenol	1.37	H1	0.319	0.0811	mg/kg	1.00		EPA 8270	total
Anthracene	23	RL2 J	320	21	ug/kg dry	4.0	☼	EPA 8270C-SIM	total
Anthracene	23	RL2 J	320	21	ug/kg dry	4.0	☼	EPA 8270C-SIM	total
Benzo(b)fluoranthene	23	RL2 J	320	21	ug/kg dry	4.0	☼	EPA 8270C-SIM	total
Benzo(b)fluoranthene	23	RL2 J	320	21	ug/kg dry	4.0	☼	EPA 8270C-SIM	total
Benzo(g,h,i)perylene	32	RL2 J	320	21	ug/kg dry	4.0	☼	EPA 8270C-SIM	total
Benzo(g,h,i)perylene	32	RL2 J	320	21	ug/kg dry	4.0	☼	EPA 8270C-SIM	total
4,4'-DDT	7.1	H-1, RL4 J	7.5	2.2	ug/kg	1.0		EPA 8081A	total
4,4'-DDT	7.1	H-1, RL4 J	7.5	2.2	ug/kg	1.0		EPA 8081A	total
delta-BHC	7.8	H-1, RL4 J	15	2.2	ug/kg	1.0		EPA 8081A	total
delta-BHC	7.8	H-1, RL4 J	15	2.2	ug/kg	1.0		EPA 8081A	total
1,2,3,6,7,8-HxCDD	1400		420	7.6	0.1	140	pg/g	83.33	8290	Total
Total HxCDD	5100		420	7.8			pg/g	83.33	8290	Total
1,2,3,4,6,7,8-HpCDD	43000		420	96	0.01	430	pg/g	83.33	8290	Total
Total HpCDD	96000		420	96			pg/g	83.33	8290	Total
OCDD	610000	E	830	520	0.001	610	pg/g	83.33	8290	Total
Total PeCDF	530		420	6.9			pg/g	83.33	8290	Total
Total HxCDF	13000		420	13			pg/g	83.33	8290	Total
1,2,3,4,6,7,8-HpCDF	14000		420	38	0.01	140	pg/g	83.33	8290	Total
1,2,3,4,7,8,9-HpCDF	830		420	47	0.01	8.3	pg/g	83.33	8290	Total
Total HpCDF	65000		420	42			pg/g	83.33	8290	Total
OCDF	37000		830	15	0.001	37	pg/g	83.33	8290	Total
Arsenic Bio-accessible	59.9			1.00	0.0800		mg/kg	1.00		EPA 6010	total
Arsenic Total	627			9.43	0.755		mg/kg	10.0		EPA 6010	total
Arsenic	368			9.31	0.0745		mg/kg	1.00		EPA 6010	total
Barium	73.2			18.6	0.0782		mg/kg	1.00		EPA 6010	total
Cadmium	2.39	J		3.72	0.0754		mg/kg	1.00		EPA 6010	total
Chromium	84.8			9.31	0.0680		mg/kg	1.00		EPA 6010	total
Lead	66.0			18.6	0.0652		mg/kg	1.00		EPA 6010	total

Client Sample ID: DU-6-2 (Continued) — Lab Sample ID: HTL0133-08

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	2.00	J	18.6	0.0838	mg/kg	1.00		EPA 6010	total
Mercury	1.21		0.0645	0.00129	mg/kg dry	10.0	☼	EPA 7471	total
Arsenic Bio-accessible percent	9.55		0.200	0.100	% by Weight	1.00		SBRC Appendix C	total

Client Sample ID: DU-9-2 — Lab Sample ID: HTL0133-09

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pentachlorophenol	0.785	H1 A-01	0.631	0.160	mg/kg	2.00		EPA 8270	total
Anthracene	4.3	J	42	2.8	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Anthracene	4.3	J	42	2.8	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(a)pyrene	3.1	J	42	2.8	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(a)pyrene	3.1	J	42	2.8	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(b)fluoranthene	7.3	J	42	2.8	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(b)fluoranthene	7.3	J	42	2.8	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(g,h,i)perylene	6.1	J	42	2.8	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(g,h,i)perylene	6.1	J	42	2.8	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Chrysene	5.7	J	42	2.8	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Chrysene	5.7	J	42	2.8	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Fluoranthene	4.5	J	42	2.8	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Fluoranthene	4.5	J	42	2.8	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Indeno(1,2,3-cd)pyrene	4.0	J	42	3.5	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Indeno(1,2,3-cd)pyrene	4.0	J	42	3.5	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Phenanthrene	4.8	J	42	2.8	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Phenanthrene	4.8	J	42	2.8	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Pyrene	5.7	J	42	2.8	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Pyrene	5.7	J	42	2.8	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
alpha-BHC	5.3	H-1, RL4 J	7.5	2.2	ug/kg	1.0		EPA 8081A	total
alpha-BHC	5.3	H-1, RL4 J	7.5	2.2	ug/kg	1.0		EPA 8081A	total
beta-BHC	4.2	H-1, RL4 J	7.5	2.2	ug/kg	1.0		EPA 8081A	total
beta-BHC	4.2	H-1, RL4 J	7.5	2.2	ug/kg	1.0		EPA 8081A	total
Total TCDD	470		50	3.9	pg/g	50		8290	Total
1,2,3,6,7,8-HxCDD	2400		250	12	0.1	240 pg/g	50	8290	Total
1,2,3,7,8,9-HxCDD	740		250	12	0.1	74 pg/g	50	8290	Total
Total HxCDD	14000		250	13	pg/g	50		8290	Total
1,2,3,4,6,7,8-HpCDD	66000		250	64	0.01	660 pg/g	50	8290	Total
Total HpCDD	140000		250	64	pg/g	50		8290	Total
OCDD	520000	E	500	480	0.001	520 pg/g	50	8290	Total
Total TCDF	1400		50	1.8	pg/g	50		8290	Total
Total PeCDF	790		250	5.0	pg/g	50		8290	Total
1,2,3,4,7,8-HxCDF	560		250	12	0.1	56 pg/g	50	8290	Total
Total HxCDF	17000		250	12	pg/g	50		8290	Total
1,2,3,4,6,7,8-HpCDF	14000		250	23	0.01	140 pg/g	50	8290	Total
1,2,3,4,7,8,9-HpCDF	1400		250	28	0.01	14 pg/g	50	8290	Total
Total HpCDF	74000		250	25	pg/g	50		8290	Total
OCDF	39000		500	49	0.001	39 pg/g	50	8290	Total
Arsenic Bio-accessible	98.9		1.00	0.0800	mg/kg	1.00		EPA 6010	total
Arsenic Total	675		9.35	0.748	mg/kg	10.0		EPA 6010	total
Arsenic	489		9.82	0.0786	mg/kg	1.00		EPA 6010	total
Barium	133		19.6	0.0825	mg/kg	1.00		EPA 6010	total
Chromium	37.3		9.82	0.0717	mg/kg	1.00		EPA 6010	total
Lead	12.4	J	19.6	0.0688	mg/kg	1.00		EPA 6010	total
Selenium	2.78	J	19.6	0.0884	mg/kg	1.00		EPA 6010	total
Silver	1.21	J	9.82	0.00688	mg/kg	1.00		EPA 6010	total
Mercury	0.525		0.0682	0.00136	mg/kg dry	10.0	☼	EPA 7471	total

Client Sample ID: DU-9-2 (Continued) — Lab Sample ID: HTL0133-09

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic Bio-accessible percent	14.7		0.200	0.100	% by Weight	1.00		SBRC Appendix C	total

Client Sample ID: EQ-2 — Lab Sample ID: HTL0133-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	0.0615	J	0.204	0.0347	ug/L	1.00		EPA 8270 SIM	total
Benzo (a) anthracene	0.0324	J	0.204	0.0320	ug/L	1.00		EPA 8270 SIM	total
Fluoranthene	0.0590	J	0.204	0.0346	ug/L	1.00		EPA 8270 SIM	total

Client Sample ID: DU-13-4 — Lab Sample ID: HTL0133-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pentachlorophenol	0.297	H1 J	0.314	0.0798	mg/kg	1.00		EPA 8270	total
Anthracene	11	J	43	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Anthracene	11	J	43	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(a)anthracene	6.5	J	43	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(a)anthracene	6.5	J	43	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(a)pyrene	6.6	J	43	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(a)pyrene	6.6	J	43	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(b)fluoranthene	13	J	43	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(b)fluoranthene	13	J	43	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(g,h,i)perylene	14	J	43	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(g,h,i)perylene	14	J	43	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Chrysene	12	J	43	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Chrysene	12	J	43	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Fluoranthene	6.5	J	43	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Fluoranthene	6.5	J	43	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Indeno(1,2,3-cd)pyrene	5.9	J	43	3.6	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Indeno(1,2,3-cd)pyrene	5.9	J	43	3.6	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Phenanthrene	6.9	J	43	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Phenanthrene	6.9	J	43	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Pyrene	9.3	J	43	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Pyrene	9.3	J	43	2.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
delta-BHC	2.7	H-1, RL4 J	15	2.2	ug/kg	1.0		EPA 8081A	total
delta-BHC	2.7	H-1, RL4 J	15	2.2	ug/kg	1.0		EPA 8081A	total
2,3,7,8-TCDD	5.0	5.0	0.45	1	5.0 pg/g	4.95		8290	Total
Total TCDD	5.0	5.0	0.45		pg/g	4.95		8290	Total
1,2,3,4,7,8-HxCDD	25	25	1.2	0.1	2.5 pg/g	4.95		8290	Total
1,2,3,6,7,8-HxCDD	220	25	1.1	0.1	22 pg/g	4.95		8290	Total
1,2,3,7,8,9-HxCDD	57	25	1.1	0.1	5.7 pg/g	4.95		8290	Total
Total HxCDD	820	25	1.1		pg/g	4.95		8290	Total
1,2,3,4,6,7,8-HpCDD	5600	25	8.9	0.01	56 pg/g	4.95		8290	Total
Total HpCDD	11000	25	8.9		pg/g	4.95		8290	Total
OCDD	65000 E	50	48	0.001	65 pg/g	4.95		8290	Total
Total TCDF	13	5.0	0.14		pg/g	4.95		8290	Total
Total PeCDF	70	25	0.49		pg/g	4.95		8290	Total
1,2,3,4,7,8-HxCDF	40	25	1.8	0.1	4.0 pg/g	4.95		8290	Total
Total HxCDF	1900	25	1.9		pg/g	4.95		8290	Total
1,2,3,4,6,7,8-HpCDF	1900	25	2.6	0.01	19 pg/g	4.95		8290	Total
1,2,3,4,7,8,9-HpCDF	100	25	3.1	0.01	1.0 pg/g	4.95		8290	Total
Total HpCDF	8300	25	2.8		pg/g	4.95		8290	Total
OCDF	4700	50	2.5	0.001	4.7 pg/g	4.95		8290	Total
Arsenic Bio-accessible	10.8		1.00	0.0800	mg/kg	1.00		EPA 6010	total
Arsenic Total	126		0.952	0.0762	mg/kg	1.00		EPA 6010	total

Client Sample ID: DU-13-4 (Continued) — Lab Sample ID: HTL0133-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	80.5		9.59	0.0767	mg/kg	1.00		EPA 6010	total
Barium	118		19.2	0.0805	mg/kg	1.00		EPA 6010	total
Cadmium	0.692	J	3.84	0.0777	mg/kg	1.00		EPA 6010	total
Chromium	56.5		9.59	0.0700	mg/kg	1.00		EPA 6010	total
Lead	9.69	J	19.2	0.0671	mg/kg	1.00		EPA 6010	total
Selenium	1.66	J	19.2	0.0863	mg/kg	1.00		EPA 6010	total
Mercury	0.847		0.0709	0.00142	mg/kg dry	10.0	☼	EPA 7471	total
Arsenic Bio-accessible percent	8.59		0.200	0.100	% by Weight	1.00		SBRC Appendix C	total

Client Sample ID: DU-12-4 — Lab Sample ID: HTL0133-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pentachlorophenol	4.45	H1	1.62	0.411	mg/kg	5.00		EPA 8270	total
Anthracene	21	RL1 J	82	5.5	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Anthracene	21	RL1 J	82	5.5	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(b)fluoranthene	7.6	RL1 J	82	5.5	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(b)fluoranthene	7.6	RL1 J	82	5.5	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(g,h,i)perylene	47	RL1 J	82	5.5	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(g,h,i)perylene	47	RL1 J	82	5.5	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Chrysene	7.0	RL1 J	82	5.5	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Chrysene	7.0	RL1 J	82	5.5	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Indeno(1,2,3-cd)pyrene	7.9	RL1 J	82	6.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Indeno(1,2,3-cd)pyrene	7.9	RL1 J	82	6.9	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Phenanthrene	6.4	RL1 J	82	5.5	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Phenanthrene	6.4	RL1 J	82	5.5	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Pyrene	6.6	RL1 J	82	5.5	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Pyrene	6.6	RL1 J	82	5.5	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
4,4'-DDT	3.3	H-1, RL4 J	7.5	2.2	ug/kg	1.0		EPA 8081A	total
4,4'-DDT	3.3	H-1, RL4 J	7.5	2.2	ug/kg	1.0		EPA 8081A	total
beta-BHC	7.2	H-1, RL4 J	7.5	2.2	ug/kg	1.0		EPA 8081A	total
beta-BHC	7.2	H-1, RL4 J	7.5	2.2	ug/kg	1.0		EPA 8081A	total
1,2,3,6,7,8-HxCDD	240	240	5.1	0.1	24 pg/g	47.61		8290	Total
Total HxCDD	1100	240	5.2		pg/g	47.61		8290	Total
1,2,3,4,6,7,8-HpCDD	7900	240	35	0.01	79 pg/g	47.61		8290	Total
Total HpCDD	19000	240	35		pg/g	47.61		8290	Total
OCDD	300000 E	480	290	0.001	300 pg/g	47.61		8290	Total
Total HxCDF	2500	240	4.4		pg/g	47.61		8290	Total
1,2,3,4,6,7,8-HpCDF	2100	240	9.8	0.01	21 pg/g	47.61		8290	Total
Total HpCDF	10000	240	11		pg/g	47.61		8290	Total
OCDF	5900	480	23	0.001	5.9 pg/g	47.61		8290	Total
Arsenic Bio-accessible	3.60		1.00	0.0800	mg/kg	1.00		EPA 6010	total
Arsenic Total	66.6		0.943	0.0755	mg/kg	1.00		EPA 6010	total
Arsenic	35.6		10.1	0.0805	mg/kg	1.00		EPA 6010	total
Barium	79.4		20.1	0.0845	mg/kg	1.00		EPA 6010	total
Cadmium	1.02	J	4.02	0.0815	mg/kg	1.00		EPA 6010	total
Chromium	69.9		10.1	0.0734	mg/kg	1.00		EPA 6010	total
Lead	11.5	J	20.1	0.0704	mg/kg	1.00		EPA 6010	total
Selenium	1.60	J	20.1	0.0905	mg/kg	1.00		EPA 6010	total
Mercury	0.783		0.0673	0.00135	mg/kg dry	10.0	☼	EPA 7471	total
Arsenic Bio-accessible percent	5.41		0.200	0.100	% by Weight	1.00		SBRC Appendix C	total

Client Sample ID: EQ-3 — Lab Sample ID: HTL0133-13

Client Sample ID: EQ-3 (Continued) — Lab Sample ID: HTL0133-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	0.0585	J	0.206	0.0351	ug/L	1.00		EPA 8270 SIM	total
Fluoranthene	0.0589	J	0.206	0.0349	ug/L	1.00		EPA 8270 SIM	total

Client Sample ID: DU-11 — Lab Sample ID: HTL0133-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pentachlorophenol	0.224	H1 J	0.306	0.0776	mg/kg	1.00		EPA 8270	total
Anthracene	4.7	J	43	2.8	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Anthracene	4.7	J	43	2.8	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(a)anthracene	13	J	43	2.8	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(a)anthracene	13	J	43	2.8	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(a)pyrene	15	J	43	2.8	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(a)pyrene	15	J	43	2.8	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(b)fluoranthene	27	J	43	2.8	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(b)fluoranthene	27	J	43	2.8	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(g,h,i)perylene	14	J	43	2.8	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(g,h,i)perylene	14	J	43	2.8	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(k)fluoranthene	9.6	J	43	2.8	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(k)fluoranthene	9.6	J	43	2.8	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Chrysene	20	J	43	2.8	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Chrysene	20	J	43	2.8	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Fluoranthene	31	J	43	2.8	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Fluoranthene	31	J	43	2.8	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Indeno(1,2,3-cd)pyrene	10	J	43	3.6	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Indeno(1,2,3-cd)pyrene	10	J	43	3.6	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Phenanthrene	24	J	43	2.8	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Phenanthrene	24	J	43	2.8	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Pyrene	30	J	43	2.8	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Pyrene	30	J	43	2.8	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
2,3,7,8-TCDD	5.5	2.0	0.23	1	5.5 pg/g	1.96		8290	Total
Total TCDD	17	2.0	0.23		pg/g	1.96		8290	Total
1,2,3,4,7,8-HxCDD	14	9.8	0.43	0.1	1.4 pg/g	1.96		8290	Total
1,2,3,6,7,8-HxCDD	67	9.8	0.38	0.1	6.7 pg/g	1.96		8290	Total
1,2,3,7,8,9-HxCDD	28	9.8	0.38	0.1	2.8 pg/g	1.96		8290	Total
Total HxCDD	360	9.8	0.40		pg/g	1.96		8290	Total
1,2,3,4,6,7,8-HpCDD	2500	9.8	3.1	0.01	25 pg/g	1.96		8290	Total
Total HpCDD	5600	9.8	3.1		pg/g	1.96		8290	Total
OCDD	27000 E G	24	24	0.001	27 pg/g	1.96		8290	Total
Total TCDF	5.8	2.0	0.19		pg/g	1.96		8290	Total
Total PeCDF	19	9.8	0.33		pg/g	1.96		8290	Total
1,2,3,4,7,8-HxCDF	15	9.8	0.42	0.1	1.5 pg/g	1.96		8290	Total
Total HxCDF	590	9.8	0.42		pg/g	1.96		8290	Total
1,2,3,4,6,7,8-HpCDF	690	9.8	1.4	0.01	6.9 pg/g	1.96		8290	Total
1,2,3,4,7,8,9-HpCDF	37	9.8	1.8	0.01	0.37 pg/g	1.96		8290	Total
Total HpCDF	2800	9.8	1.6		pg/g	1.96		8290	Total
OCDF	2000	20	1.4	0.001	2.0 pg/g	1.96		8290	Total
Arsenic	15.2		9.87	0.0790	mg/kg	1.00		EPA 6010	total
Barium	76.2		19.7	0.0829	mg/kg	1.00		EPA 6010	total
Cadmium	0.218	J	3.95	0.0800	mg/kg	1.00		EPA 6010	total
Chromium	72.5		9.87	0.0721	mg/kg	1.00		EPA 6010	total
Lead	18.4	J	19.7	0.0691	mg/kg	1.00		EPA 6010	total
Selenium	1.74	J	19.7	0.0888	mg/kg	1.00		EPA 6010	total
Mercury	0.419		0.0695	0.00139	mg/kg dry	10.0	☼	EPA 7471	total

Detection Summary

Client: Weston Solutions, Inc.
Project/Site: Kohala Sugar Company, 12767.063.594.1121

TestAmerica Job ID: HTL0133
SDG: HTL0133

Client Sample ID: DU-20 — Lab Sample ID: HTL0133-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pentachlorophenol	0.211	H1 J	0.297	0.0755	mg/kg	1.00		EPA 8270	total
Acenaphthylene	2.9	J	41	2.7	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Acenaphthylene	2.9	J	41	2.7	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Anthracene	2.8	J	41	2.7	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Anthracene	2.8	J	41	2.7	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(a)anthracene	9.2	J	41	2.7	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(a)anthracene	9.2	J	41	2.7	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(a)pyrene	10	J	41	2.7	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(a)pyrene	10	J	41	2.7	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(b)fluoranthene	25	J	41	2.7	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(b)fluoranthene	25	J	41	2.7	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(g,h,i)perylene	10	J	41	2.7	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(g,h,i)perylene	10	J	41	2.7	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(k)fluoranthene	6.1	J	41	2.7	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Benzo(k)fluoranthene	6.1	J	41	2.7	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Chrysene	17	J	41	2.7	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Chrysene	17	J	41	2.7	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Fluoranthene	17	J	41	2.7	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Fluoranthene	17	J	41	2.7	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Indeno(1,2,3-cd)pyrene	8.6	J	41	3.4	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Indeno(1,2,3-cd)pyrene	8.6	J	41	3.4	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Naphthalene	4.8	J	41	4.8	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Naphthalene	4.8	J	41	4.8	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Phenanthrene	10	J	41	2.7	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Phenanthrene	10	J	41	2.7	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Pyrene	20	J	41	2.7	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
Pyrene	20	J	41	2.7	ug/kg dry	1.0	☼	EPA 8270C-SIM	total
beta-BHC	5.0	H-1, RL4 J	7.5	2.2	ug/kg	1.0		EPA 8081A	total
beta-BHC	5.0	H-1, RL4 J	7.5	2.2	ug/kg	1.0		EPA 8081A	total
2,3,7,8-TCDD	18	0.99	0.14	1	18 pg/g	0.98		8290	Total
Total TCDD	35	0.99	0.14		pg/g	0.98		8290	Total
1,2,3,7,8-PeCDD	5.2	4.9	0.23	0.5	2.6 pg/g	0.98		8290	Total
Total PeCDD	16	4.9	0.23		pg/g	0.98		8290	Total
1,2,3,4,7,8-HxCDD	8.9	4.9	0.28	0.1	0.89 pg/g	0.98		8290	Total
1,2,3,6,7,8-HxCDD	42	4.9	0.25	0.1	4.2 pg/g	0.98		8290	Total
1,2,3,7,8,9-HxCDD	20	4.9	0.24	0.1	2.0 pg/g	0.98		8290	Total
Total HxCDD	230	4.9	0.26		pg/g	0.98		8290	Total
1,2,3,4,6,7,8-HpCDD	1300	4.9	1.8	0.01	13 pg/g	0.98		8290	Total
Total HpCDD	2800	4.9	1.8		pg/g	0.98		8290	Total
OCDD	14000	E G 17	17	0.001	14 pg/g	0.98		8290	Total
2,3,7,8-TCDF	1.5	CON 0.99	0.18	0.1	0.15 pg/g	0.98		8290	Total
Total TCDF	17	0.99	0.10		pg/g	0.98		8290	Total
Total PeCDF	18	4.9	0.15		pg/g	0.98		8290	Total
1,2,3,4,7,8-HxCDF	10	4.9	0.30	0.1	1.0 pg/g	0.98		8290	Total
1,2,3,6,7,8-HxCDF	5.8	4.9	0.29	0.1	0.58 pg/g	0.98		8290	Total
2,3,4,6,7,8-HxCDF	5.5	4.9	0.30	0.1	0.55 pg/g	0.98		8290	Total
Total HxCDF	370	4.9	0.30		pg/g	0.98		8290	Total
1,2,3,4,6,7,8-HpCDF	420	4.9	0.71	0.01	4.2 pg/g	0.98		8290	Total
1,2,3,4,7,8,9-HpCDF	23	4.9	0.87	0.01	0.23 pg/g	0.98		8290	Total
Total HpCDF	1600	4.9	0.78		pg/g	0.98		8290	Total
OCDF	1200	9.9	1.7	0.001	1.2 pg/g	0.98		8290	Total
Arsenic	8.57	J	9.84	0.0787	mg/kg	1.00		EPA 6010	total
Barium	99.8		19.7	0.0827	mg/kg	1.00		EPA 6010	total
Cadmium	0.221	J	3.94	0.0797	mg/kg	1.00		EPA 6010	total

Client Sample ID: DU-20 (Continued) — Lab Sample ID: HTL0133-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	66.5		9.84	0.0719	mg/kg	1.00		EPA 6010	total
Lead	12.9	J	19.7	0.0689	mg/kg	1.00		EPA 6010	total
Selenium	2.07	J	19.7	0.0886	mg/kg	1.00		EPA 6010	total
Silver	0.296	J	9.84	0.00689	mg/kg	1.00		EPA 6010	total
Mercury	0.432		0.0698	0.00140	mg/kg dry	10.0	☼	EPA 7471	total

Client Sample ID: TS-1 — Lab Sample ID: HTL0133-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	0.217		0.213	0.0362	ug/L	1.00		EPA 8270 SIM	total
2-Methylnaphthalene	0.206	J	0.213	0.0745	ug/L	1.00		EPA 8270 SIM	total
Acenaphthene	0.371		0.213	0.0263	ug/L	1.00		EPA 8270 SIM	total
Anthracene	12.0		0.213	0.0291	ug/L	1.00		EPA 8270 SIM	total
Benzo (a) anthracene	4.47		0.213	0.0334	ug/L	1.00		EPA 8270 SIM	total
Benzo (a) pyrene	4.41		0.106	0.0422	ug/L	1.00		EPA 8270 SIM	total
Benzo (b) fluoranthene	7.75		0.213	0.0328	ug/L	1.00		EPA 8270 SIM	total
Benzo (g,h,i) perylene	3.17		0.213	0.0573	ug/L	1.00		EPA 8270 SIM	total
Benzo (k) fluoranthene	2.62		0.213	0.0820	ug/L	1.00		EPA 8270 SIM	total
Chrysene	8.22		0.213	0.0361	ug/L	1.00		EPA 8270 SIM	total
Dibenzo (a,h) anthracene	0.883		0.213	0.0902	ug/L	1.00		EPA 8270 SIM	total
Fluoranthene	16.5		1.06	0.180	ug/L	5.00		EPA 8270 SIM	total
Fluorene	0.211	J	0.213	0.0239	ug/L	1.00		EPA 8270 SIM	total
Indeno (1,2,3-cd) pyrene	2.97		0.213	0.0524	ug/L	1.00		EPA 8270 SIM	total
Naphthalene	4.85		0.213	0.0434	ug/L	1.00		EPA 8270 SIM	total
Phenanthrene	11.5		0.213	0.0209	ug/L	1.00		EPA 8270 SIM	total
Pyrene	14.4		0.213	0.0379	ug/L	1.00		EPA 8270 SIM	total

Client Sample ID: DU-07

Date Collected: 12/13/10 10:45
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-01

Matrix: Solid/Soil
Percent Solids: 69

Method: EPA 8270 - Semivolatile Organics Compounds by EPA 8270

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	**0.309**	**H1 J**	0.325	0.0824	mg/kg		02/07/11 08:40	02/07/11 21:33	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*76*	*H1*	*40 - 120*	*02/07/11 08:40*	*02/07/11 21:33*	*1.00*

Method: EPA 8270C-SIM - POLYNUCLEAR AROMATIC HYDROCARBONS BY GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		44	2.9	ug/kg dry	☼	12/27/10 06:25	12/27/10 13:01	1.0
Acenaphthene	ND		44	2.9	ug/kg dry	☼	12/27/10 08:25	12/27/10 15:01	1.0
Acenaphthylene	**10**	**J**	44	2.9	ug/kg dry	☼	12/27/10 06:25	12/27/10 13:01	1.0
Acenaphthylene	**10**	**J**	44	2.9	ug/kg dry	☼	12/27/10 08:25	12/27/10 15:01	1.0
Anthracene	**10**	**J**	44	2.9	ug/kg dry	☼	12/27/10 06:25	12/27/10 13:01	1.0
Anthracene	**10**	**J**	44	2.9	ug/kg dry	☼	12/27/10 08:25	12/27/10 15:01	1.0
Benzo(a)anthracene	**23**	**J**	44	2.9	ug/kg dry	☼	12/27/10 06:25	12/27/10 13:01	1.0
Benzo(a)anthracene	**23**	**J**	44	2.9	ug/kg dry	☼	12/27/10 08:25	12/27/10 15:01	1.0
Benzo(a)pyrene	**36**	**J**	44	2.9	ug/kg dry	☼	12/27/10 06:25	12/27/10 13:01	1.0
Benzo(a)pyrene	**36**	**J**	44	2.9	ug/kg dry	☼	12/27/10 08:25	12/27/10 15:01	1.0
Benzo(b)fluoranthene	**63**	**M2**	44	2.9	ug/kg dry	☼	12/27/10 06:25	12/27/10 13:01	1.0
Benzo(b)fluoranthene	**63**	**M2**	44	2.9	ug/kg dry	☼	12/27/10 08:25	12/27/10 15:01	1.0
Benzo(g,h,i)perylene	**32**	**J**	44	2.9	ug/kg dry	☼	12/27/10 06:25	12/27/10 13:01	1.0
Benzo(g,h,i)perylene	**32**	**J**	44	2.9	ug/kg dry	☼	12/27/10 08:25	12/27/10 15:01	1.0
Benzo(k)fluoranthene	**25**	**J**	44	2.9	ug/kg dry	☼	12/27/10 06:25	12/27/10 13:01	1.0
Benzo(k)fluoranthene	**25**	**J**	44	2.9	ug/kg dry	☼	12/27/10 08:25	12/27/10 15:01	1.0
Chrysene	**55**	**M2**	44	2.9	ug/kg dry	☼	12/27/10 06:25	12/27/10 13:01	1.0
Chrysene	**55**	**M2**	44	2.9	ug/kg dry	☼	12/27/10 08:25	12/27/10 15:01	1.0
Dibenz(a,h)anthracene	**7.7**	**J**	44	3.6	ug/kg dry	☼	12/27/10 06:25	12/27/10 13:01	1.0
Dibenz(a,h)anthracene	**7.7**	**J**	44	3.6	ug/kg dry	☼	12/27/10 08:25	12/27/10 15:01	1.0
Fluoranthene	**75**	**M2**	44	2.9	ug/kg dry	☼	12/27/10 06:25	12/27/10 13:01	1.0
Fluoranthene	**75**	**M2**	44	2.9	ug/kg dry	☼	12/27/10 08:25	12/27/10 15:01	1.0
Fluorene	**3.4**	**J**	44	2.9	ug/kg dry	☼	12/27/10 06:25	12/27/10 13:01	1.0
Fluorene	**3.4**	**J**	44	2.9	ug/kg dry	☼	12/27/10 08:25	12/27/10 15:01	1.0
Indeno(1,2,3-cd)pyrene	**34**	**J**	44	3.6	ug/kg dry	☼	12/27/10 06:25	12/27/10 13:01	1.0
Indeno(1,2,3-cd)pyrene	**34**	**J**	44	3.6	ug/kg dry	☼	12/27/10 08:25	12/27/10 15:01	1.0
Naphthalene	ND		44	5.1	ug/kg dry	☼	12/27/10 06:25	12/27/10 13:01	1.0
Naphthalene	ND		44	5.1	ug/kg dry	☼	12/27/10 08:25	12/27/10 15:01	1.0
Phenanthrene	**60**	**M2**	44	2.9	ug/kg dry	☼	12/27/10 06:25	12/27/10 13:01	1.0
Phenanthrene	**60**	**M2**	44	2.9	ug/kg dry	☼	12/27/10 08:25	12/27/10 15:01	1.0
Pyrene	**72**		44	2.9	ug/kg dry	☼	12/27/10 06:25	12/27/10 13:01	1.0
Pyrene	**72**		44	2.9	ug/kg dry	☼	12/27/10 08:25	12/27/10 15:01	1.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*76*		*35 - 120*	*12/27/10 06:25*	*12/27/10 13:01*	*1.0*
2-Fluorobiphenyl	*76*		*35 - 120*	*12/27/10 08:25*	*12/27/10 15:01*	*1.0*
Nitrobenzene-d5	*82*		*30 - 120*	*12/27/10 06:25*	*12/27/10 13:01*	*1.0*
Nitrobenzene-d5	*82*		*30 - 120*	*12/27/10 08:25*	*12/27/10 15:01*	*1.0*
Terphenyl-d14	*89*		*40 - 135*	*12/27/10 06:25*	*12/27/10 13:01*	*1.0*
Terphenyl-d14	*89*		*40 - 135*	*12/27/10 08:25*	*12/27/10 15:01*	*1.0*

Method: EPA 8081A - ORGANOCHLORINE PESTICIDES (EPA 3546/8081A)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 15:31	1.0
4,4'-DDD	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 17:31	1.0

Client Sample ID: DU-07

Date Collected: 12/13/10 10:45
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-01

Matrix: Solid/Soil
Percent Solids: 68.8

Method: EPA 8081A - ORGANOCHLORINE PESTICIDES (EPA 3546/8081A) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDE	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 15:31	1.0
4,4'-DDE	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 17:31	1.0
4,4'-DDT	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 15:31	1.0
4,4'-DDT	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 17:31	1.0
Aldrin	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 15:31	1.0
Aldrin	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 17:31	1.0
alpha-BHC	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 15:31	1.0
alpha-BHC	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 17:31	1.0
beta-BHC	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 15:31	1.0
beta-BHC	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 17:31	1.0
delta-BHC	ND	H-1, RL4	15	2.2	ug/kg		02/04/11 07:50	02/07/11 15:31	1.0
delta-BHC	ND	H-1, RL4	15	2.2	ug/kg		02/04/11 09:50	02/07/11 17:31	1.0
Dieldrin	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 15:31	1.0
Dieldrin	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 17:31	1.0
Endosulfan I	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 15:31	1.0
Endosulfan I	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 17:31	1.0
Endosulfan II	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 15:31	1.0
Endosulfan II	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 17:31	1.0
Endosulfan sulfate	ND	H-1, RL4	15	3.0	ug/kg		02/04/11 07:50	02/07/11 15:31	1.0
Endosulfan sulfate	ND	H-1, RL4	15	3.0	ug/kg		02/04/11 09:50	02/07/11 17:31	1.0
Endrin	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 15:31	1.0
Endrin	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 17:31	1.0
Endrin aldehyde	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 15:31	1.0
Endrin aldehyde	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 17:31	1.0
Endrin ketone	ND	H-1, RL4	7.5	3.0	ug/kg		02/04/11 07:50	02/07/11 15:31	1.0
Endrin ketone	ND	H-1, RL4	7.5	3.0	ug/kg		02/04/11 09:50	02/07/11 17:31	1.0
gamma-BHC (Lindane)	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 15:31	1.0
gamma-BHC (Lindane)	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 17:31	1.0
Heptachlor	ND	H-1, RL4	7.5	3.0	ug/kg		02/04/11 07:50	02/07/11 15:31	1.0
Heptachlor	ND	H-1, RL4	7.5	3.0	ug/kg		02/04/11 09:50	02/07/11 17:31	1.0
Heptachlor epoxide	ND	H-1, RL4	7.5	3.0	ug/kg		02/04/11 07:50	02/07/11 15:31	1.0
Heptachlor epoxide	ND	H-1, RL4	7.5	3.0	ug/kg		02/04/11 09:50	02/07/11 17:31	1.0
Methoxychlor	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 15:31	1.0
Methoxychlor	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 17:31	1.0
Chlordane	ND	H-1, RL4	75	15	ug/kg		02/04/11 07:50	02/07/11 15:31	1.0
Chlordane	ND	H-1, RL4	75	15	ug/kg		02/04/11 09:50	02/07/11 17:31	1.0
Toxaphene	ND	H-1, RL4	300	75	ug/kg		02/04/11 07:50	02/07/11 15:31	1.0
Toxaphene	ND	H-1, RL4	300	75	ug/kg		02/04/11 09:50	02/07/11 17:31	1.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*64*	*H-1, RL4*	*45 - 120*	*02/04/11 07:50*	*02/07/11 15:31*	*1.0*
Decachlorobiphenyl	*64*	*H-1, RL4*	*45 - 120*	*02/04/11 09:50*	*02/07/11 17:31*	*1.0*
Tetrachloro-m-xylene	*75*	*H-1, RL4*	*35 - 115*	*02/04/11 07:50*	*02/07/11 15:31*	*1.0*
Tetrachloro-m-xylene	*75*	*H-1, RL4*	*35 - 115*	*02/04/11 09:50*	*02/07/11 17:31*	*1.0*

Method: 8290 - Dioxins/Furans, HRGC/HRMS (8290)

Analyte	Result	Qualifier	RL	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	**160**		95	6.1	1	160	pg/g		01/05/11 18:00	01/10/11 19:01	95.2
Total TCDD	**160**		95	6.1			pg/g		01/05/11 18:00	01/10/11 19:01	95.2
1,2,3,7,8-PeCDD	ND		480	440	0.5		pg/g		01/05/11 18:00	01/10/11 19:01	95.2
Total PeCDD	ND		480	440			pg/g		01/05/11 18:00	01/10/11 19:01	95.2

Client Sample ID: DU-07

Date Collected: 12/13/10 10:45
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-01

Matrix: Solid/Soil

Method: 8290 - Dioxins/Furans, HRGC/HRMS (8290) (Continued)

Analyte	Result	Qualifier	RL	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,7,8-HxCDD	620		480	12	0.1	62	pg/g		01/05/11 18:00	01/10/11 19:01	95.2
1,2,3,6,7,8-HxCDD	4000		480	11	0.1	400	pg/g		01/05/11 18:00	01/10/11 19:01	95.2
1,2,3,7,8,9-HxCDD	1500		480	11	0.1	150	pg/g		01/05/11 18:00	01/10/11 19:01	95.2
Total HxCDD	18000		480	11			pg/g		01/05/11 18:00	01/10/11 19:01	95.2
1,2,3,4,6,7,8-HpCDD	100000		480	180	0.01	1000	pg/g		01/05/11 18:00	01/10/11 19:01	95.2
Total HpCDD	200000		480	180			pg/g		01/05/11 18:00	01/10/11 19:01	95.2
OCDD	1100000	E	950	970	0.001	1100	pg/g		01/05/11 18:00	01/10/11 19:01	95.2
2,3,7,8-TCDF	ND		95	36	0.1		pg/g		01/05/11 18:00	01/10/11 19:01	95.2
Total TCDF	280		95	0.48			pg/g		01/05/11 18:00	01/10/11 19:01	95.2
1,2,3,7,8-PeCDF	ND		480	52	0.05		pg/g		01/05/11 18:00	01/10/11 19:01	95.2
2,3,4,7,8-PeCDF	ND		480	67	0.5		pg/g		01/05/11 18:00	01/10/11 19:01	95.2
Total PeCDF	1100		480	8.7			pg/g		01/05/11 18:00	01/10/11 19:01	95.2
1,2,3,4,7,8-HxCDF	1000		480	25	0.1	100	pg/g		01/05/11 18:00	01/10/11 19:01	95.2
1,2,3,6,7,8-HxCDF	500		480	24	0.1	50	pg/g		01/05/11 18:00	01/10/11 19:01	95.2
2,3,4,6,7,8-HxCDF	ND		480	340	0.1		pg/g		01/05/11 18:00	01/10/11 19:01	95.2
1,2,3,7,8,9-HxCDF	ND		480	28	0.1		pg/g		01/05/11 18:00	01/10/11 19:01	95.2
Total HxCDF	37000		480	25			pg/g		01/05/11 18:00	01/10/11 19:01	95.2
1,2,3,4,6,7,8-HpCDF	40000		480	60	0.01	400	pg/g		01/05/11 18:00	01/10/11 19:01	95.2
1,2,3,4,7,8,9-HpCDF	2100		480	74	0.01	21	pg/g		01/05/11 18:00	01/10/11 19:01	95.2
Total HpCDF	170000		480	67			pg/g		01/05/11 18:00	01/10/11 19:01	95.2
OCDF	91000		950	94	0.001	91	pg/g		01/05/11 18:00	01/10/11 19:01	95.2
Total TEQ						**3500**					

Internal Standard	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*105*		*40 - 135*	*01/05/11 18:00*	*01/10/11 19:01*	*95.2*
13C-1,2,3,7,8-PeCDD	*116*		*40 - 135*	*01/05/11 18:00*	*01/10/11 19:01*	*95.2*
13C-1,2,3,6,7,8-HxCDD	*114*		*40 - 135*	*01/05/11 18:00*	*01/10/11 19:01*	*95.2*
13C-1,2,3,4,6,7,8-HpCDD	*116*		*40 - 135*	*01/05/11 18:00*	*01/10/11 19:01*	*95.2*
13C-OCDD	*130*		*40 - 135*	*01/05/11 18:00*	*01/10/11 19:01*	*95.2*
13C-2,3,7,8-TCDF	*99*		*40 - 135*	*01/05/11 18:00*	*01/10/11 19:01*	*95.2*
13C-1,2,3,7,8-PeCDF	*117*		*40 - 135*	*01/05/11 18:00*	*01/10/11 19:01*	*95.2*
13C-1,2,3,4,7,8-HxCDF	*93*		*40 - 135*	*01/05/11 18:00*	*01/10/11 19:01*	*95.2*
13C-1,2,3,4,6,7,8-HpCDF	*102*		*40 - 135*	*01/05/11 18:00*	*01/10/11 19:01*	*95.2*

Method: EPA 6010 - Bio-available Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic Bio-accessible	8.56		1.00	0.0800	mg/kg		02/04/11 17:36	02/11/11 18:47	1.00
Arsenic Total	88.2		1.00	0.0800	mg/kg		02/04/11 10:30	02/04/11 14:56	1.00

Method: EPA 6010 - Total Metals by EPA Method 6010/7471

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	66.9		9.36	0.0749	mg/kg		01/12/11 14:20	01/14/11 15:19	1.00
Barium	123		18.7	0.0787	mg/kg		01/12/11 14:20	01/14/11 15:19	1.00
Cadmium	0.211	J	3.75	0.0758	mg/kg		01/12/11 14:20	01/14/11 15:19	1.00
Chromium	64.2		9.36	0.0684	mg/kg		01/12/11 14:20	01/14/11 15:19	1.00
Lead	14.0	J	18.7	0.0655	mg/kg		01/12/11 14:20	01/14/11 15:19	1.00
Selenium	1.75	J	18.7	0.0843	mg/kg		01/12/11 14:20	01/14/11 15:19	1.00
Silver	0.0899	J	9.36	0.00655	mg/kg		01/12/11 14:20	01/14/11 15:19	1.00

Client Sample ID: DU-07

Date Collected: 12/13/10 10:45
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-01
Matrix: Solid/Soil
Percent Solids: 69

Method: EPA 7471 - Total Metals by EPA Method 6010/7471

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.569		0.0368	0.000736	mg/kg dry	☼	01/04/11 10:23	01/04/11 16:04	5.00

Method: SBRC Appendix C Rev. #8 - Bio-available Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic Bio-accessible percent	9.70		0.200	0.100	% by Weight		02/04/11 17:36	02/11/11 18:47	1.00

Client Sample ID: DU-8

Date Collected: 12/13/10 16:45
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-02
Matrix: Solid/Soil
Percent Solids: 71

Method: EPA 8270 - Semivolatile Organics Compounds by EPA 8270

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	3.02	H1	0.329	0.0835	mg/kg		02/07/11 08:40	02/07/11 22:12	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*85*	*H1*	*40 - 120*	*02/07/11 08:40*	*02/07/11 22:12*	*1.00*

Method: EPA 8270C-SIM - POLYNUCLEAR AROMATIC HYDROCARBONS BY GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	RL1	85	5.7	ug/kg dry	☼	12/27/10 06:25	12/31/10 15:38	1.0
Acenaphthene	ND	RL1	85	5.7	ug/kg dry	☼	12/27/10 08:25	12/31/10 17:38	1.0
Acenaphthylene	14	RL1 J	85	5.7	ug/kg dry	☼	12/27/10 06:25	12/31/10 15:38	1.0
Acenaphthylene	14	RL1 J	85	5.7	ug/kg dry	☼	12/27/10 08:25	12/31/10 17:38	1.0
Anthracene	26	RL1 J	85	5.7	ug/kg dry	☼	12/27/10 06:25	12/31/10 15:38	1.0
Anthracene	26	RL1 J	85	5.7	ug/kg dry	☼	12/27/10 08:25	12/31/10 17:38	1.0
Benzo(a)anthracene	41	RL1 J	85	5.7	ug/kg dry	☼	12/27/10 06:25	12/31/10 15:38	1.0
Benzo(a)anthracene	41	RL1 J	85	5.7	ug/kg dry	☼	12/27/10 08:25	12/31/10 17:38	1.0
Benzo(a)pyrene	41	RL1 J	85	5.7	ug/kg dry	☼	12/27/10 06:25	12/31/10 15:38	1.0
Benzo(a)pyrene	41	RL1 J	85	5.7	ug/kg dry	☼	12/27/10 08:25	12/31/10 17:38	1.0
Benzo(b)fluoranthene	95	RL1	85	5.7	ug/kg dry	☼	12/27/10 06:25	12/31/10 15:38	1.0
Benzo(b)fluoranthene	95	RL1	85	5.7	ug/kg dry	☼	12/27/10 08:25	12/31/10 17:38	1.0
Benzo(g,h,i)perylene	58	RL1 J	85	5.7	ug/kg dry	☼	12/27/10 06:25	12/31/10 15:38	1.0
Benzo(g,h,i)perylene	58	RL1 J	85	5.7	ug/kg dry	☼	12/27/10 08:25	12/31/10 17:38	1.0
Benzo(k)fluoranthene	28	RL1 J	85	5.7	ug/kg dry	☼	12/27/10 06:25	12/31/10 15:38	1.0
Benzo(k)fluoranthene	28	RL1 J	85	5.7	ug/kg dry	☼	12/27/10 08:25	12/31/10 17:38	1.0
Chrysene	69	RL1 J	85	5.7	ug/kg dry	☼	12/27/10 06:25	12/31/10 15:38	1.0
Chrysene	69	RL1 J	85	5.7	ug/kg dry	☼	12/27/10 08:25	12/31/10 17:38	1.0
Dibenz(a,h)anthracene	13	RL1 J	85	7.1	ug/kg dry	☼	12/27/10 06:25	12/31/10 15:38	1.0
Dibenz(a,h)anthracene	13	RL1 J	85	7.1	ug/kg dry	☼	12/27/10 08:25	12/31/10 17:38	1.0
Fluoranthene	62	RL1 J	85	5.7	ug/kg dry	☼	12/27/10 06:25	12/31/10 15:38	1.0
Fluoranthene	62	RL1 J	85	5.7	ug/kg dry	☼	12/27/10 08:25	12/31/10 17:38	1.0
Fluorene	ND	RL1	85	5.7	ug/kg dry	☼	12/27/10 06:25	12/31/10 15:38	1.0
Fluorene	ND	RL1	85	5.7	ug/kg dry	☼	12/27/10 08:25	12/31/10 17:38	1.0
Indeno(1,2,3-cd)pyrene	39	RL1 J	85	7.1	ug/kg dry	☼	12/27/10 06:25	12/31/10 15:38	1.0
Indeno(1,2,3-cd)pyrene	39	RL1 J	85	7.1	ug/kg dry	☼	12/27/10 08:25	12/31/10 17:38	1.0
Naphthalene	12	RL1 J	85	9.9	ug/kg dry	☼	12/27/10 06:25	12/31/10 15:38	1.0
Naphthalene	12	RL1 J	85	9.9	ug/kg dry	☼	12/27/10 08:25	12/31/10 17:38	1.0
Phenanthrene	39	RL1 J	85	5.7	ug/kg dry	☼	12/27/10 06:25	12/31/10 15:38	1.0
Phenanthrene	39	RL1 J	85	5.7	ug/kg dry	☼	12/27/10 08:25	12/31/10 17:38	1.0
Pyrene	76	RL1 J	85	5.7	ug/kg dry	☼	12/27/10 06:25	12/31/10 15:38	1.0
Pyrene	76	RL1 J	85	5.7	ug/kg dry	☼	12/27/10 08:25	12/31/10 17:38	1.0

Client Sample ID: DU-8

Date Collected: 12/13/10 16:45
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-02

Matrix: Solid/Soil
Percent Solids: 70.6

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	84	RL1	35 - 120	12/27/10 06:25	12/31/10 15:38	1.0
2-Fluorobiphenyl	84	RL1	35 - 120	12/27/10 08:25	12/31/10 17:38	1.0
Nitrobenzene-d5	76	RL1	30 - 120	12/27/10 06:25	12/31/10 15:38	1.0
Nitrobenzene-d5	76	RL1	30 - 120	12/27/10 08:25	12/31/10 17:38	1.0
Terphenyl-d14	98	RL1	40 - 135	12/27/10 06:25	12/31/10 15:38	1.0
Terphenyl-d14	98	RL1	40 - 135	12/27/10 08:25	12/31/10 17:38	1.0

Method: EPA 8081A - ORGANOCHLORINE PESTICIDES (EPA 3546/8081A)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	H-1	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 15:46	1.0
4,4'-DDD	ND	H-1	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 17:46	1.0
4,4'-DDE	**7.5**	**H-1 R-10**	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 15:46	1.0
4,4'-DDE	**7.5**	**H-1 R-10**	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 17:46	1.0
4,4'-DDT	**78**	**H-1**	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 15:46	1.0
4,4'-DDT	**78**	**H-1**	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 17:46	1.0
Aldrin	ND	H-1	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 15:46	1.0
Aldrin	ND	H-1	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 17:46	1.0
alpha-BHC	ND	H-1	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 15:46	1.0
alpha-BHC	ND	H-1	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 17:46	1.0
beta-BHC	ND	H-1	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 15:46	1.0
beta-BHC	ND	H-1	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 17:46	1.0
delta-BHC	ND	H-1	15	2.2	ug/kg		02/04/11 07:50	02/07/11 15:46	1.0
delta-BHC	ND	H-1	15	2.2	ug/kg		02/04/11 09:50	02/07/11 17:46	1.0
Dieldrin	ND	H-1	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 15:46	1.0
Dieldrin	ND	H-1	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 17:46	1.0
Endosulfan I	ND	H-1	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 15:46	1.0
Endosulfan I	ND	H-1	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 17:46	1.0
Endosulfan II	ND	H-1	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 15:46	1.0
Endosulfan II	ND	H-1	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 17:46	1.0
Endosulfan sulfate	**8.3**	**H-1 J**	15	3.0	ug/kg		02/04/11 07:50	02/07/11 15:46	1.0
Endosulfan sulfate	**8.3**	**H-1 J**	15	3.0	ug/kg		02/04/11 09:50	02/07/11 17:46	1.0
Endrin	ND	H-1	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 15:46	1.0
Endrin	ND	H-1	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 17:46	1.0
Endrin aldehyde	ND	H-1	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 15:46	1.0
Endrin aldehyde	ND	H-1	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 17:46	1.0
Endrin ketone	**6.2**	**H-1 J**	7.5	3.0	ug/kg		02/04/11 07:50	02/07/11 15:46	1.0
Endrin ketone	**6.2**	**H-1 J**	7.5	3.0	ug/kg		02/04/11 09:50	02/07/11 17:46	1.0
gamma-BHC (Lindane)	ND	H-1	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 15:46	1.0
gamma-BHC (Lindane)	ND	H-1	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 17:46	1.0
Heptachlor	ND	H-1	7.5	3.0	ug/kg		02/04/11 07:50	02/07/11 15:46	1.0
Heptachlor	ND	H-1	7.5	3.0	ug/kg		02/04/11 09:50	02/07/11 17:46	1.0
Heptachlor epoxide	ND	H-1	7.5	3.0	ug/kg		02/04/11 07:50	02/07/11 15:46	1.0
Heptachlor epoxide	ND	H-1	7.5	3.0	ug/kg		02/04/11 09:50	02/07/11 17:46	1.0
Methoxychlor	ND	H-1	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 15:46	1.0
Methoxychlor	ND	H-1	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 17:46	1.0
Chlordane	ND	H-1	75	15	ug/kg		02/04/11 07:50	02/07/11 15:46	1.0
Chlordane	ND	H-1	75	15	ug/kg		02/04/11 09:50	02/07/11 17:46	1.0
Toxaphene	ND	H-1	300	75	ug/kg		02/04/11 07:50	02/07/11 15:46	1.0
Toxaphene	ND	H-1	300	75	ug/kg		02/04/11 09:50	02/07/11 17:46	1.0

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Decachlorobiphenyl	58	H-1	45 - 120	02/04/11 07:50	02/07/11 15:46	1.0

Client Sample ID: DU-8

Date Collected: 12/13/10 16:45
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-02

Matrix: Solid/Soil
Percent Solids: 70.6

Method: EPA 8081A - ORGANOCHLORINE PESTICIDES (EPA 3546/8081A) (Continued)

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*58*	*H-1*	*45 - 120*	*02/04/11 09:50*	*02/07/11 17:46*	*1.0*
Tetrachloro-m-xylene	*65*	*H-1*	*35 - 115*	*02/04/11 07:50*	*02/07/11 15:46*	*1.0*
Tetrachloro-m-xylene	*65*	*H-1*	*35 - 115*	*02/04/11 09:50*	*02/07/11 17:46*	*1.0*

Method: 8290 - Dioxins/Furans, HRGC/HRMS (8290)

Analyte	Result	Qualifier	RL	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	**610**		190	12	1	610	pg/g		01/05/11 18:00	01/10/11 19:46	193.61
Total TCDD	**610**		190	12			pg/g		01/05/11 18:00	01/10/11 19:46	193.61
1,2,3,7,8-PeCDD	ND		970	300	0.5		pg/g		01/05/11 18:00	01/10/11 19:46	193.61
Total PeCDD	ND		970	300			pg/g		01/05/11 18:00	01/10/11 19:46	193.61
1,2,3,4,7,8-HxCDD	ND		970	670	0.1		pg/g		01/05/11 18:00	01/10/11 19:46	193.61
1,2,3,6,7,8-HxCDD	**6200**		970	29	0.1	620	pg/g		01/05/11 18:00	01/10/11 19:46	193.61
1,2,3,7,8,9-HxCDD	**1600**		970	29	0.1	160	pg/g		01/05/11 18:00	01/10/11 19:46	193.61
Total HxCDD	**26000**		970	30			pg/g		01/05/11 18:00	01/10/11 19:46	193.61
1,2,3,4,6,7,8-HpCDD	**170000**		970	310	0.01	1700	pg/g		01/05/11 18:00	01/10/11 19:46	193.61
Total HpCDD	**370000**		970	310			pg/g		01/05/11 18:00	01/10/11 19:46	193.61
OCDD	**1600000**	**E**	1900	1200	0.001	1600	pg/g		01/05/11 18:00	01/10/11 19:46	193.61
2,3,7,8-TCDF	ND		190	37	0.1		pg/g		01/05/11 18:00	01/10/11 19:46	193.61
Total TCDF	**1100**		190	6.0			pg/g		01/05/11 18:00	01/10/11 19:46	193.61
1,2,3,7,8-PeCDF	ND		970	40	0.05		pg/g		01/05/11 18:00	01/10/11 19:46	193.61
2,3,4,7,8-PeCDF	ND		970	110	0.5		pg/g		01/05/11 18:00	01/10/11 19:46	193.61
Total PeCDF	**2800**		970	20			pg/g		01/05/11 18:00	01/10/11 19:46	193.61
1,2,3,4,7,8-HxCDF	**1800**		970	50	0.1	180	pg/g		01/05/11 18:00	01/10/11 19:46	193.61
1,2,3,6,7,8-HxCDF	ND		970	620	0.1		pg/g		01/05/11 18:00	01/10/11 19:46	193.61
2,3,4,6,7,8-HxCDF	ND		970	490	0.1		pg/g		01/05/11 18:00	01/10/11 19:46	193.61
1,2,3,7,8,9-HxCDF	ND		970	56	0.1		pg/g		01/05/11 18:00	01/10/11 19:46	193.61
Total HxCDF	**61000**		970	51			pg/g		01/05/11 18:00	01/10/11 19:46	193.61
1,2,3,4,6,7,8-HpCDF	**58000**		970	59	0.01	580	pg/g		01/05/11 18:00	01/10/11 19:46	193.61
1,2,3,4,7,8,9-HpCDF	**4100**		970	73	0.01	41	pg/g		01/05/11 18:00	01/10/11 19:46	193.61
Total HpCDF	**270000**		970	66			pg/g		01/05/11 18:00	01/10/11 19:46	193.61
OCDF	**130000**		1900	66	0.001	130	pg/g		01/05/11 18:00	01/10/11 19:46	193.61
Total TEQ						**5600**					

Internal Standard	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*93*		*40 - 135*	*01/05/11 18:00*	*01/10/11 19:46*	*193.61*
13C-1,2,3,7,8-PeCDD	*103*		*40 - 135*	*01/05/11 18:00*	*01/10/11 19:46*	*193.61*
13C-1,2,3,6,7,8-HxCDD	*99*		*40 - 135*	*01/05/11 18:00*	*01/10/11 19:46*	*193.61*
13C-1,2,3,4,6,7,8-HpCDD	*103*		*40 - 135*	*01/05/11 18:00*	*01/10/11 19:46*	*193.61*
13C-OCDD	*110*		*40 - 135*	*01/05/11 18:00*	*01/10/11 19:46*	*193.61*
13C-2,3,7,8-TCDF	*88*		*40 - 135*	*01/05/11 18:00*	*01/10/11 19:46*	*193.61*
13C-1,2,3,7,8-PeCDF	*101*		*40 - 135*	*01/05/11 18:00*	*01/10/11 19:46*	*193.61*
13C-1,2,3,4,7,8-HxCDF	*79*		*40 - 135*	*01/05/11 18:00*	*01/10/11 19:46*	*193.61*
13C-1,2,3,4,6,7,8-HpCDF	*89*		*40 - 135*	*01/05/11 18:00*	*01/10/11 19:46*	*193.61*

Method: EPA 6010 - Bio-available Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic Bio-accessible	**519**		1.00	0.0800	mg/kg		02/04/11 17:36	02/11/11 18:47	1.00
Arsenic Total	**2660**		48.1	3.85	mg/kg		02/04/11 10:30	02/08/11 18:34	50.0

Client Sample ID: DU-8

Lab Sample ID: HTL0133-02
Date Collected: 12/13/10 16:45
Matrix: Solid/Soil
Date Received: 12/17/10 15:05
Percent Solids: 71

Method: EPA 6010 - Total Metals by EPA Method 6010/7471

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2030**		97.9	0.784	mg/kg		01/12/11 14:20	01/14/11 17:22	10.0
Barium	**153**		19.6	0.0823	mg/kg		01/12/11 14:20	01/14/11 15:23	1.00
Cadmium	**1.12**	**J**	3.92	0.0793	mg/kg		01/12/11 14:20	01/14/11 15:23	1.00
Chromium	**89.1**		9.79	0.0715	mg/kg		01/12/11 14:20	01/14/11 15:23	1.00
Lead	**89.8**		19.6	0.0686	mg/kg		01/12/11 14:20	01/14/11 15:23	1.00
Selenium	**2.82**	**J**	19.6	0.0881	mg/kg		01/12/11 14:20	01/14/11 15:23	1.00
Silver	ND		9.79	0.00686	mg/kg		01/12/11 14:20	01/14/11 15:23	1.00

Method: EPA 7471 - Total Metals by EPA Method 6010/7471

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**6.92**		0.373	0.00746	mg/kg dry	☼	01/04/11 10:23	01/04/11 18:26	50.0

Method: SBRC Appendix C Rev. #8 - Bio-available Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic Bio-accessible percent	**19.5**		0.200	0.100	% by Weight		02/04/11 17:36	02/11/11 18:47	1.00

Client Sample ID: DU-18

Lab Sample ID: HTL0133-03
Date Collected: 12/13/10 14:30
Matrix: Solid/Soil
Date Received: 12/17/10 15:05
Percent Solids: 73

Method: EPA 8270 - Semivolatile Organics Compounds by EPA 8270

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	**4.81**	**H1**	1.49	0.379	mg/kg		02/07/11 08:40	02/08/11 15:46	5.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*73*	*H1*	*40 - 120*	*02/07/11 08:40*	*02/08/11 15:46*	*5.00*

Method: EPA 8270C-SIM - POLYNUCLEAR AROMATIC HYDROCARBONS BY GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	RL1	83	5.5	ug/kg dry	☼	12/27/10 06:25	12/31/10 16:03	1.0
Acenaphthene	ND	RL1	83	5.5	ug/kg dry	☼	12/27/10 08:25	12/31/10 18:03	1.0
Acenaphthylene	**11**	**RL1 J**	83	5.5	ug/kg dry	☼	12/27/10 06:25	12/31/10 16:03	1.0
Acenaphthylene	**11**	**RL1 J**	83	5.5	ug/kg dry	☼	12/27/10 08:25	12/31/10 18:03	1.0
Anthracene	**24**	**RL1 J**	83	5.5	ug/kg dry	☼	12/27/10 06:25	12/31/10 16:03	1.0
Anthracene	**24**	**RL1 J**	83	5.5	ug/kg dry	☼	12/27/10 08:25	12/31/10 18:03	1.0
Benzo(a)anthracene	**44**	**RL1 J**	83	5.5	ug/kg dry	☼	12/27/10 06:25	12/31/10 16:03	1.0
Benzo(a)anthracene	**44**	**RL1 J**	83	5.5	ug/kg dry	☼	12/27/10 08:25	12/31/10 18:03	1.0
Benzo(a)pyrene	**52**	**RL1 J**	83	5.5	ug/kg dry	☼	12/27/10 06:25	12/31/10 16:03	1.0
Benzo(a)pyrene	**52**	**RL1 J**	83	5.5	ug/kg dry	☼	12/27/10 08:25	12/31/10 18:03	1.0
Benzo(b)fluoranthene	**120**	**RL1**	83	5.5	ug/kg dry	☼	12/27/10 06:25	12/31/10 16:03	1.0
Benzo(b)fluoranthene	**120**	**RL1**	83	5.5	ug/kg dry	☼	12/27/10 08:25	12/31/10 18:03	1.0
Benzo(g,h,i)perylene	**63**	**RL1 J**	83	5.5	ug/kg dry	☼	12/27/10 06:25	12/31/10 16:03	1.0
Benzo(g,h,i)perylene	**63**	**RL1 J**	83	5.5	ug/kg dry	☼	12/27/10 08:25	12/31/10 18:03	1.0
Benzo(k)fluoranthene	**33**	**RL1 J**	83	5.5	ug/kg dry	☼	12/27/10 06:25	12/31/10 16:03	1.0
Benzo(k)fluoranthene	**33**	**RL1 J**	83	5.5	ug/kg dry	☼	12/27/10 08:25	12/31/10 18:03	1.0
Chrysene	**80**	**RL1 J**	83	5.5	ug/kg dry	☼	12/27/10 06:25	12/31/10 16:03	1.0
Chrysene	**80**	**RL1 J**	83	5.5	ug/kg dry	☼	12/27/10 08:25	12/31/10 18:03	1.0
Dibenz(a,h)anthracene	**16**	**RL1 J**	83	6.9	ug/kg dry	☼	12/27/10 06:25	12/31/10 16:03	1.0
Dibenz(a,h)anthracene	**16**	**RL1 J**	83	6.9	ug/kg dry	☼	12/27/10 08:25	12/31/10 18:03	1.0
Fluoranthene	**81**	**RL1 J**	83	5.5	ug/kg dry	☼	12/27/10 06:25	12/31/10 16:03	1.0
Fluoranthene	**81**	**RL1 J**	83	5.5	ug/kg dry	☼	12/27/10 08:25	12/31/10 18:03	1.0
Fluorene	ND	RL1	83	5.5	ug/kg dry	☼	12/27/10 06:25	12/31/10 16:03	1.0

Client Sample ID: DU-18

Date Collected: 12/13/10 14:30
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-03

Matrix: Solid/Soil
Percent Solids: 72.6

Method: EPA 8270C-SIM - POLYNUCLEAR AROMATIC HYDROCARBONS BY GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	ND	RL1	83	5.5	ug/kg dry	☼	12/27/10 08:25	12/31/10 18:03	1.0
Indeno(1,2,3-cd)pyrene	**46**	**RL1 J**	83	6.9	ug/kg dry	☼	12/27/10 06:25	12/31/10 16:03	1.0
Indeno(1,2,3-cd)pyrene	**46**	**RL1 J**	83	6.9	ug/kg dry	☼	12/27/10 08:25	12/31/10 18:03	1.0
Naphthalene	**12**	**RL1 J**	83	9.6	ug/kg dry	☼	12/27/10 06:25	12/31/10 16:03	1.0
Naphthalene	**12**	**RL1 J**	83	9.6	ug/kg dry	☼	12/27/10 08:25	12/31/10 18:03	1.0
Phenanthrene	**54**	**RL1 J**	83	5.5	ug/kg dry	☼	12/27/10 06:25	12/31/10 16:03	1.0
Phenanthrene	**54**	**RL1 J**	83	5.5	ug/kg dry	☼	12/27/10 08:25	12/31/10 18:03	1.0
Pyrene	**94**	**RL1**	83	5.5	ug/kg dry	☼	12/27/10 06:25	12/31/10 16:03	1.0
Pyrene	**94**	**RL1**	83	5.5	ug/kg dry	☼	12/27/10 08:25	12/31/10 18:03	1.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*85*	*RL1*	*35 - 120*	*12/27/10 06:25*	*12/31/10 16:03*	*1.0*
2-Fluorobiphenyl	*85*	*RL1*	*35 - 120*	*12/27/10 08:25*	*12/31/10 18:03*	*1.0*
Nitrobenzene-d5	*80*	*RL1*	*30 - 120*	*12/27/10 06:25*	*12/31/10 16:03*	*1.0*
Nitrobenzene-d5	*80*	*RL1*	*30 - 120*	*12/27/10 08:25*	*12/31/10 18:03*	*1.0*
Terphenyl-d14	*100*	*RL1*	*40 - 135*	*12/27/10 06:25*	*12/31/10 16:03*	*1.0*
Terphenyl-d14	*100*	*RL1*	*40 - 135*	*12/27/10 08:25*	*12/31/10 18:03*	*1.0*

Method: EPA 8081A - ORGANOCHLORINE PESTICIDES (EPA 3546/8081A)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	H-1	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:00	1.0
4,4'-DDD	ND	H-1	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:00	1.0
4,4'-DDE	**5.9**	**H-1 J**	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:00	1.0
4,4'-DDE	**5.9**	**H-1 J**	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:00	1.0
4,4'-DDT	**75**	**H-1**	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:00	1.0
4,4'-DDT	**75**	**H-1**	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:00	1.0
Aldrin	ND	H-1	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:00	1.0
Aldrin	ND	H-1	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:00	1.0
alpha-BHC	ND	H-1	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:00	1.0
alpha-BHC	ND	H-1	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:00	1.0
beta-BHC	ND	H-1	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:00	1.0
beta-BHC	ND	H-1	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:00	1.0
delta-BHC	ND	H-1	15	2.2	ug/kg		02/04/11 07:50	02/07/11 16:00	1.0
delta-BHC	ND	H-1	15	2.2	ug/kg		02/04/11 09:50	02/07/11 18:00	1.0
Dieldrin	ND	H-1	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:00	1.0
Dieldrin	ND	H-1	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:00	1.0
Endosulfan I	ND	H-1	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:00	1.0
Endosulfan I	ND	H-1	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:00	1.0
Endosulfan II	ND	H-1	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:00	1.0
Endosulfan II	ND	H-1	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:00	1.0
Endosulfan sulfate	**8.3**	**H-1 J**	15	3.0	ug/kg		02/04/11 07:50	02/07/11 16:00	1.0
Endosulfan sulfate	**8.3**	**H-1 J**	15	3.0	ug/kg		02/04/11 09:50	02/07/11 18:00	1.0
Endrin	ND	H-1	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:00	1.0
Endrin	ND	H-1	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:00	1.0
Endrin aldehyde	ND	H-1	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:00	1.0
Endrin aldehyde	ND	H-1	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:00	1.0
Endrin ketone	**7.6**	**H-1**	7.5	3.0	ug/kg		02/04/11 07:50	02/07/11 16:00	1.0
Endrin ketone	**7.6**	**H-1**	7.5	3.0	ug/kg		02/04/11 09:50	02/07/11 18:00	1.0
gamma-BHC (Lindane)	ND	H-1	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:00	1.0
gamma-BHC (Lindane)	ND	H-1	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:00	1.0
Heptachlor	ND	H-1	7.5	3.0	ug/kg		02/04/11 07:50	02/07/11 16:00	1.0

Client Sample ID: DU-18

Date Collected: 12/13/10 14:30
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-03

Matrix: Solid/Soil
Percent Solids: 72.6

Method: EPA 8081A - ORGANOCHLORINE PESTICIDES (EPA 3546/8081A) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND	H-1	7.5	3.0	ug/kg		02/04/11 09:50	02/07/11 18:00	1.0
Heptachlor epoxide	ND	H-1	7.5	3.0	ug/kg		02/04/11 07:50	02/07/11 16:00	1.0
Heptachlor epoxide	ND	H-1	7.5	3.0	ug/kg		02/04/11 09:50	02/07/11 18:00	1.0
Methoxychlor	**2.6**	**H-1 J**	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:00	1.0
Methoxychlor	**2.6**	**H-1 J**	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:00	1.0
Chlordane	ND	H-1	75	15	ug/kg		02/04/11 07:50	02/07/11 16:00	1.0
Chlordane	ND	H-1	75	15	ug/kg		02/04/11 09:50	02/07/11 18:00	1.0
Toxaphene	ND	H-1	300	75	ug/kg		02/04/11 07:50	02/07/11 16:00	1.0
Toxaphene	ND	H-1	300	75	ug/kg		02/04/11 09:50	02/07/11 18:00	1.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*69*	*H-1*	*45 - 120*	*02/04/11 07:50*	*02/07/11 16:00*	*1.0*
Decachlorobiphenyl	*69*	*H-1*	*45 - 120*	*02/04/11 09:50*	*02/07/11 18:00*	*1.0*
Tetrachloro-m-xylene	*67*	*H-1*	*35 - 115*	*02/04/11 07:50*	*02/07/11 16:00*	*1.0*
Tetrachloro-m-xylene	*67*	*H-1*	*35 - 115*	*02/04/11 09:50*	*02/07/11 18:00*	*1.0*

Method: 8290 - Dioxins/Furans, HRGC/HRMS (8290)

Analyte	Result	Qualifier	RL	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	**710**		190	12	1	710	pg/g		01/05/11 18:00	01/10/11 20:30	194.36
Total TCDD	**710**		190	12			pg/g		01/05/11 18:00	01/10/11 20:30	194.36
1,2,3,7,8-PeCDD	ND		970	230	0.5		pg/g		01/05/11 18:00	01/10/11 20:30	194.36
Total PeCDD	ND		970	230			pg/g		01/05/11 18:00	01/10/11 20:30	194.36
1,2,3,4,7,8-HxCDD	ND		970	500	0.1		pg/g		01/05/11 18:00	01/10/11 20:30	194.36
1,2,3,6,7,8-HxCDD	**5500**		970	40	0.1	550	pg/g		01/05/11 18:00	01/10/11 20:30	194.36
1,2,3,7,8,9-HxCDD	**1300**		970	40	0.1	130	pg/g		01/05/11 18:00	01/10/11 20:30	194.36
Total HxCDD	**22000**		970	42			pg/g		01/05/11 18:00	01/10/11 20:30	194.36
1,2,3,4,6,7,8-HpCDD	**140000**		970	190	0.01	1400	pg/g		01/05/11 18:00	01/10/11 20:30	194.36
Total HpCDD	**290000**		970	190			pg/g		01/05/11 18:00	01/10/11 20:30	194.36
OCDD	**1400000**	**E**	1900	1100	0.001	1400	pg/g		01/05/11 18:00	01/10/11 20:30	194.36
2,3,7,8-TCDF	ND		190	170	0.1		pg/g		01/05/11 18:00	01/10/11 20:30	194.36
Total TCDF	**1300**		190	5.3			pg/g		01/05/11 18:00	01/10/11 20:30	194.36
1,2,3,7,8-PeCDF	ND		970	62	0.05		pg/g		01/05/11 18:00	01/10/11 20:30	194.36
2,3,4,7,8-PeCDF	ND		970	110	0.5		pg/g		01/05/11 18:00	01/10/11 20:30	194.36
Total PeCDF	**3100**		970	18			pg/g		01/05/11 18:00	01/10/11 20:30	194.36
1,2,3,4,7,8-HxCDF	**1700**		970	33	0.1	170	pg/g		01/05/11 18:00	01/10/11 20:30	194.36
1,2,3,6,7,8-HxCDF	ND		970	460	0.1		pg/g		01/05/11 18:00	01/10/11 20:30	194.36
2,3,4,6,7,8-HxCDF	ND		970	480	0.1		pg/g		01/05/11 18:00	01/10/11 20:30	194.36
1,2,3,7,8,9-HxCDF	ND		970	37	0.1		pg/g		01/05/11 18:00	01/10/11 20:30	194.36
Total HxCDF	**58000**		970	33			pg/g		01/05/11 18:00	01/10/11 20:30	194.36
1,2,3,4,6,7,8-HpCDF	**54000**		970	99	0.01	540	pg/g		01/05/11 18:00	01/10/11 20:30	194.36
1,2,3,4,7,8,9-HpCDF	**3900**		970	120	0.01	39	pg/g		01/05/11 18:00	01/10/11 20:30	194.36
Total HpCDF	**240000**		970	110			pg/g		01/05/11 18:00	01/10/11 20:30	194.36
OCDF	**110000**		1900	100	0.001	110	pg/g		01/05/11 18:00	01/10/11 20:30	194.36
Total TEQ						**5000**					

Internal Standard	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*91*		*40 - 135*	*01/05/11 18:00*	*01/10/11 20:30*	*194.36*
13C-1,2,3,7,8-PeCDD	*96*		*40 - 135*	*01/05/11 18:00*	*01/10/11 20:30*	*194.36*
13C-1,2,3,6,7,8-HxCDD	*103*		*40 - 135*	*01/05/11 18:00*	*01/10/11 20:30*	*194.36*
13C-1,2,3,4,6,7,8-HpCDD	*105*		*40 - 135*	*01/05/11 18:00*	*01/10/11 20:30*	*194.36*
13C-OCDD	*110*		*40 - 135*	*01/05/11 18:00*	*01/10/11 20:30*	*194.36*

Client Sample ID: DU-18

Date Collected: 12/13/10 14:30
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-03
Matrix: Solid/Soil

Method: 8290 - Dioxins/Furans, HRGC/HRMS (8290) (Continued)

Internal Standard	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDF	*86*		*40 - 135*	*01/05/11 18:00*	*01/10/11 20:30*	*194.36*
13C-1,2,3,7,8-PeCDF	*100*		*40 - 135*	*01/05/11 18:00*	*01/10/11 20:30*	*194.36*
13C-1,2,3,4,7,8-HxCDF	*83*		*40 - 135*	*01/05/11 18:00*	*01/10/11 20:30*	*194.36*
13C-1,2,3,4,6,7,8-HpCDF	*88*		*40 - 135*	*01/05/11 18:00*	*01/10/11 20:30*	*194.36*

Method: EPA 6010 - Total Metals by EPA Method 6010/7471

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**1440**		96.1	0.768	mg/kg		01/12/11 14:20	01/14/11 17:27	10.0
Barium	**144**		19.2	0.0807	mg/kg		01/12/11 14:20	01/14/11 15:28	1.00
Cadmium	**0.825**	**J**	3.84	0.0778	mg/kg		01/12/11 14:20	01/14/11 15:28	1.00
Chromium	**91.4**		9.61	0.0701	mg/kg		01/12/11 14:20	01/14/11 15:28	1.00
Lead	**83.4**		19.2	0.0672	mg/kg		01/12/11 14:20	01/14/11 15:28	1.00
Selenium	**2.61**	**J**	19.2	0.0865	mg/kg		01/12/11 14:20	01/14/11 15:28	1.00
Silver	**0.0778**	**J**	9.61	0.00672	mg/kg		01/12/11 14:20	01/14/11 15:28	1.00

Method: EPA 7471 - Total Metals by EPA Method 6010/7471

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**2.96**		0.141	0.00282	mg/kg dry	☼	01/04/11 10:23	01/04/11 18:27	20.0

Client Sample ID: DU-19

Date Collected: 12/13/10 17:55
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-04
Matrix: Solid/Soil
Percent Solids: 72

Method: EPA 8270 - Semivolatile Organics Compounds by EPA 8270

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	**1.87**	**H1**	0.326	0.0827	mg/kg		02/07/11 08:40	02/07/11 23:29	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*99*	*H1*	*40 - 120*	*02/07/11 08:40*	*02/07/11 23:29*	*1.00*

Method: EPA 8270C-SIM - POLYNUCLEAR AROMATIC HYDROCARBONS BY GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	RL1	84	5.6	ug/kg dry	☼	12/27/10 06:25	12/31/10 16:27	1.0
Acenaphthene	ND	RL1	84	5.6	ug/kg dry	☼	12/27/10 08:25	12/31/10 18:27	1.0
Acenaphthylene	**26**	**RL1 J**	84	5.6	ug/kg dry	☼	12/27/10 06:25	12/31/10 16:27	1.0
Acenaphthylene	**26**	**RL1 J**	84	5.6	ug/kg dry	☼	12/27/10 08:25	12/31/10 18:27	1.0
Anthracene	**100**	**RL1**	84	5.6	ug/kg dry	☼	12/27/10 06:25	12/31/10 16:27	1.0
Anthracene	**100**	**RL1**	84	5.6	ug/kg dry	☼	12/27/10 08:25	12/31/10 18:27	1.0
Benzo(a)anthracene	**110**	**RL1**	84	5.6	ug/kg dry	☼	12/27/10 06:25	12/31/10 16:27	1.0
Benzo(a)anthracene	**110**	**RL1**	84	5.6	ug/kg dry	☼	12/27/10 08:25	12/31/10 18:27	1.0
Benzo(a)pyrene	**130**	**RL1**	84	5.6	ug/kg dry	☼	12/27/10 06:25	12/31/10 16:27	1.0
Benzo(a)pyrene	**130**	**RL1**	84	5.6	ug/kg dry	☼	12/27/10 08:25	12/31/10 18:27	1.0
Benzo(b)fluoranthene	**250**	**RL1**	84	5.6	ug/kg dry	☼	12/27/10 06:25	12/31/10 16:27	1.0
Benzo(b)fluoranthene	**250**	**RL1**	84	5.6	ug/kg dry	☼	12/27/10 08:25	12/31/10 18:27	1.0
Benzo(g,h,i)perylene	**150**	**RL1**	84	5.6	ug/kg dry	☼	12/27/10 06:25	12/31/10 16:27	1.0
Benzo(g,h,i)perylene	**150**	**RL1**	84	5.6	ug/kg dry	☼	12/27/10 08:25	12/31/10 18:27	1.0
Benzo(k)fluoranthene	**56**	**RL1 J**	84	5.6	ug/kg dry	☼	12/27/10 06:25	12/31/10 16:27	1.0
Benzo(k)fluoranthene	**56**	**RL1 J**	84	5.6	ug/kg dry	☼	12/27/10 08:25	12/31/10 18:27	1.0
Chrysene	**210**	**RL1**	84	5.6	ug/kg dry	☼	12/27/10 06:25	12/31/10 16:27	1.0
Chrysene	**210**	**RL1**	84	5.6	ug/kg dry	☼	12/27/10 08:25	12/31/10 18:27	1.0
Dibenz(a,h)anthracene	**37**	**RL1 J**	84	7.0	ug/kg dry	☼	12/27/10 06:25	12/31/10 16:27	1.0

Client Sample ID: DU-19

Date Collected: 12/13/10 17:55
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-04

Matrix: Solid/Soil
Percent Solids: 71.5

Method: EPA 8270C-SIM - POLYNUCLEAR AROMATIC HYDROCARBONS BY GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	**37**	**RL1 J**	84	7.0	ug/kg dry	☼	12/27/10 08:25	12/31/10 18:27	1.0
Fluoranthene	**180**	**RL1**	84	5.6	ug/kg dry	☼	12/27/10 06:25	12/31/10 16:27	1.0
Fluoranthene	**180**	**RL1**	84	5.6	ug/kg dry	☼	12/27/10 08:25	12/31/10 18:27	1.0
Fluorene	**12**	**RL1 J**	84	5.6	ug/kg dry	☼	12/27/10 06:25	12/31/10 16:27	1.0
Fluorene	**12**	**RL1 J**	84	5.6	ug/kg dry	☼	12/27/10 08:25	12/31/10 18:27	1.0
Indeno(1,2,3-cd)pyrene	**94**	**RL1**	84	7.0	ug/kg dry	☼	12/27/10 06:25	12/31/10 16:27	1.0
Indeno(1,2,3-cd)pyrene	**94**	**RL1**	84	7.0	ug/kg dry	☼	12/27/10 08:25	12/31/10 18:27	1.0
Naphthalene	**15**	**RL1 J**	84	9.8	ug/kg dry	☼	12/27/10 06:25	12/31/10 16:27	1.0
Naphthalene	**15**	**RL1 J**	84	9.8	ug/kg dry	☼	12/27/10 08:25	12/31/10 18:27	1.0
Phenanthrene	**97**	**RL1**	84	5.6	ug/kg dry	☼	12/27/10 06:25	12/31/10 16:27	1.0
Phenanthrene	**97**	**RL1**	84	5.6	ug/kg dry	☼	12/27/10 08:25	12/31/10 18:27	1.0
Pyrene	**210**	**RL1**	84	5.6	ug/kg dry	☼	12/27/10 06:25	12/31/10 16:27	1.0
Pyrene	**210**	**RL1**	84	5.6	ug/kg dry	☼	12/27/10 08:25	12/31/10 18:27	1.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*86*	*RL1*	*35 - 120*	*12/27/10 06:25*	*12/31/10 16:27*	*1.0*
2-Fluorobiphenyl	*86*	*RL1*	*35 - 120*	*12/27/10 08:25*	*12/31/10 18:27*	*1.0*
Nitrobenzene-d5	*81*	*RL1*	*30 - 120*	*12/27/10 06:25*	*12/31/10 16:27*	*1.0*
Nitrobenzene-d5	*81*	*RL1*	*30 - 120*	*12/27/10 08:25*	*12/31/10 18:27*	*1.0*
Terphenyl-d14	*100*	*RL1*	*40 - 135*	*12/27/10 06:25*	*12/31/10 16:27*	*1.0*
Terphenyl-d14	*100*	*RL1*	*40 - 135*	*12/27/10 08:25*	*12/31/10 18:27*	*1.0*

Method: EPA 8081A - ORGANOCHLORINE PESTICIDES (EPA 3546/8081A)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	H-1	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:14	1.0
4,4'-DDD	ND	H-1	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:14	1.0
4,4'-DDE	**4.0**	**H-1 J**	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:14	1.0
4,4'-DDE	**4.0**	**H-1 J**	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:14	1.0
4,4'-DDT	**54**	**H-1**	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:14	1.0
4,4'-DDT	**54**	**H-1**	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:14	1.0
Aldrin	ND	H-1	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:14	1.0
Aldrin	ND	H-1	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:14	1.0
alpha-BHC	ND	H-1	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:14	1.0
alpha-BHC	ND	H-1	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:14	1.0
beta-BHC	ND	H-1	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:14	1.0
beta-BHC	ND	H-1	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:14	1.0
delta-BHC	ND	H-1	15	2.2	ug/kg		02/04/11 07:50	02/07/11 16:14	1.0
delta-BHC	ND	H-1	15	2.2	ug/kg		02/04/11 09:50	02/07/11 18:14	1.0
Dieldrin	ND	H-1	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:14	1.0
Dieldrin	ND	H-1	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:14	1.0
Endosulfan I	ND	H-1	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:14	1.0
Endosulfan I	ND	H-1	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:14	1.0
Endosulfan II	ND	H-1	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:14	1.0
Endosulfan II	ND	H-1	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:14	1.0
Endosulfan sulfate	ND	H-1	15	3.0	ug/kg		02/04/11 07:50	02/07/11 16:14	1.0
Endosulfan sulfate	ND	H-1	15	3.0	ug/kg		02/04/11 09:50	02/07/11 18:14	1.0
Endrin	ND	H-1	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:14	1.0
Endrin	ND	H-1	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:14	1.0
Endrin aldehyde	ND	H-1	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:14	1.0
Endrin aldehyde	ND	H-1	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:14	1.0
Endrin ketone	**9.8**	**H-1**	7.5	3.0	ug/kg		02/04/11 07:50	02/07/11 16:14	1.0

Client Sample ID: DU-19

Date Collected: 12/13/10 17:55
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-04

Matrix: Solid/Soil
Percent Solids: 71.5

Method: EPA 8081A - ORGANOCHLORINE PESTICIDES (EPA 3546/8081A) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin ketone	**9.8**	**H-1**	7.5	3.0	ug/kg		02/04/11 09:50	02/07/11 18:14	1.0
gamma-BHC (Lindane)	ND	H-1	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:14	1.0
gamma-BHC (Lindane)	ND	H-1	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:14	1.0
Heptachlor	ND	H-1	7.5	3.0	ug/kg		02/04/11 07:50	02/07/11 16:14	1.0
Heptachlor	ND	H-1	7.5	3.0	ug/kg		02/04/11 09:50	02/07/11 18:14	1.0
Heptachlor epoxide	ND	H-1	7.5	3.0	ug/kg		02/04/11 07:50	02/07/11 16:14	1.0
Heptachlor epoxide	ND	H-1	7.5	3.0	ug/kg		02/04/11 09:50	02/07/11 18:14	1.0
Methoxychlor	ND	H-1	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:14	1.0
Methoxychlor	ND	H-1	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:14	1.0
Chlordane	ND	H-1	75	15	ug/kg		02/04/11 07:50	02/07/11 16:14	1.0
Chlordane	ND	H-1	75	15	ug/kg		02/04/11 09:50	02/07/11 18:14	1.0
Toxaphene	ND	H-1	300	75	ug/kg		02/04/11 07:50	02/07/11 16:14	1.0
Toxaphene	ND	H-1	300	75	ug/kg		02/04/11 09:50	02/07/11 18:14	1.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*67*	*H-1*	*45 - 120*	*02/04/11 07:50*	*02/07/11 16:14*	*1.0*
Decachlorobiphenyl	*67*	*H-1*	*45 - 120*	*02/04/11 09:50*	*02/07/11 18:14*	*1.0*
Tetrachloro-m-xylene	*68*	*H-1*	*35 - 115*	*02/04/11 07:50*	*02/07/11 16:14*	*1.0*
Tetrachloro-m-xylene	*68*	*H-1*	*35 - 115*	*02/04/11 09:50*	*02/07/11 18:14*	*1.0*

Method: 8290 - Dioxins/Furans, HRGC/HRMS (8290)

Analyte	Result	Qualifier	RL	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	**710**		240	15	1	710	pg/g		01/05/11 18:00	01/11/11 00:13	240.62
Total TCDD	**710**		240	15			pg/g		01/05/11 18:00	01/11/11 00:13	240.62
1,2,3,7,8-PeCDD	ND		1200	310	0.5		pg/g		01/05/11 18:00	01/11/11 00:13	240.62
Total PeCDD	ND		1200	310			pg/g		01/05/11 18:00	01/11/11 00:13	240.62
1,2,3,4,7,8-HxCDD	ND		1200	540	0.1		pg/g		01/05/11 18:00	01/11/11 00:13	240.62
1,2,3,6,7,8-HxCDD	**5500**		1200	28	0.1	550	pg/g		01/05/11 18:00	01/11/11 00:13	240.62
1,2,3,7,8,9-HxCDD	**1300**		1200	27	0.1	130	pg/g		01/05/11 18:00	01/11/11 00:13	240.62
Total HxCDD	**22000**		1200	29			pg/g		01/05/11 18:00	01/11/11 00:13	240.62
1,2,3,4,6,7,8-HpCDD	**140000**		1200	200	0.01	1400	pg/g		01/05/11 18:00	01/11/11 00:13	240.62
Total HpCDD	**280000**		1200	200			pg/g		01/05/11 18:00	01/11/11 00:13	240.62
OCDD	**1400000**	**E**	2400	1400	0.001	1400	pg/g		01/05/11 18:00	01/11/11 00:13	240.62
2,3,7,8-TCDF	ND		240	110	0.1		pg/g		01/05/11 18:00	01/11/11 00:13	240.62
Total TCDF	**1400**		240	4.2			pg/g		01/05/11 18:00	01/11/11 00:13	240.62
1,2,3,7,8-PeCDF	ND		1200	20	0.05		pg/g		01/05/11 18:00	01/11/11 00:13	240.62
2,3,4,7,8-PeCDF	ND		1200	150	0.5		pg/g		01/05/11 18:00	01/11/11 00:13	240.62
Total PeCDF	**2000**		1200	20			pg/g		01/05/11 18:00	01/11/11 00:13	240.62
1,2,3,4,7,8-HxCDF	**1800**		1200	44	0.1	180	pg/g		01/05/11 18:00	01/11/11 00:13	240.62
1,2,3,6,7,8-HxCDF	ND		1200	530	0.1		pg/g		01/05/11 18:00	01/11/11 00:13	240.62
2,3,4,6,7,8-HxCDF	ND		1200	480	0.1		pg/g		01/05/11 18:00	01/11/11 00:13	240.62
1,2,3,7,8,9-HxCDF	ND		1200	49	0.1		pg/g		01/05/11 18:00	01/11/11 00:13	240.62
Total HxCDF	**54000**		1200	44			pg/g		01/05/11 18:00	01/11/11 00:13	240.62
1,2,3,4,6,7,8-HpCDF	**50000**		1200	110	0.01	500	pg/g		01/05/11 18:00	01/11/11 00:13	240.62
1,2,3,4,7,8,9-HpCDF	**3300**		1200	130	0.01	33	pg/g		01/05/11 18:00	01/11/11 00:13	240.62
Total HpCDF	**220000**		1200	120			pg/g		01/05/11 18:00	01/11/11 00:13	240.62
OCDF	**120000**		2400	160	0.001	120	pg/g		01/05/11 18:00	01/11/11 00:13	240.62
Total TEQ						**5000**					

Internal Standard	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*93*		*40 - 135*	*01/05/11 18:00*	*01/11/11 00:13*	*240.62*

Client Sample ID: DU-19

Date Collected: 12/13/10 17:55
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-04

Matrix: Solid/Soil

Method: 8290 - Dioxins/Furans, HRGC/HRMS (8290) (Continued)

Internal Standard	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,7,8-PeCDD	*89*		*40 - 135*	*01/05/11 18:00*	*01/11/11 00:13*	*240.62*
13C-1,2,3,6,7,8-HxCDD	*102*		*40 - 135*	*01/05/11 18:00*	*01/11/11 00:13*	*240.62*
13C-1,2,3,4,6,7,8-HpCDD	*98*		*40 - 135*	*01/05/11 18:00*	*01/11/11 00:13*	*240.62*
13C-OCDD	*99*		*40 - 135*	*01/05/11 18:00*	*01/11/11 00:13*	*240.62*
13C-2,3,7,8-TCDF	*94*		*40 - 135*	*01/05/11 18:00*	*01/11/11 00:13*	*240.62*
13C-1,2,3,7,8-PeCDF	*101*		*40 - 135*	*01/05/11 18:00*	*01/11/11 00:13*	*240.62*
13C-1,2,3,4,7,8-HxCDF	*89*		*40 - 135*	*01/05/11 18:00*	*01/11/11 00:13*	*240.62*
13C-1,2,3,4,6,7,8-HpCDF	*90*		*40 - 135*	*01/05/11 18:00*	*01/11/11 00:13*	*240.62*

Method: EPA 6010 - Bio-available Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic Bio-accessible	**660**		1.00	0.0800	mg/kg		02/04/11 17:36	02/11/11 18:47	1.00
Arsenic Total	**3160**		48.5	3.88	mg/kg		02/04/11 10:30	02/08/11 18:39	50.0

Method: EPA 6010 - Total Metals by EPA Method 6010/7471

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2440**		94.5	0.756	mg/kg		01/12/11 14:20	01/14/11 17:32	10.0
Barium	**147**		18.9	0.0794	mg/kg		01/12/11 14:20	01/14/11 15:33	1.00
Cadmium	**0.811**	**J**	3.78	0.0766	mg/kg		01/12/11 14:20	01/14/11 15:33	1.00
Chromium	**77.9**		9.45	0.0690	mg/kg		01/12/11 14:20	01/14/11 15:33	1.00
Lead	**62.8**		18.9	0.0662	mg/kg		01/12/11 14:20	01/14/11 15:33	1.00
Selenium	**2.26**	**J**	18.9	0.0851	mg/kg		01/12/11 14:20	01/14/11 15:33	1.00
Silver	ND		9.45	0.00662	mg/kg		01/12/11 14:20	01/14/11 15:33	1.00

Method: EPA 7471 - Total Metals by EPA Method 6010/7471

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**3.03**		0.143	0.00286	mg/kg dry	☼	01/04/11 10:23	01/04/11 18:28	20.0

Method: SBRC Appendix C Rev. #8 - Bio-available Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic Bio-accessible percent	**20.9**		0.200	0.100	% by Weight		02/04/11 17:36	02/11/11 18:47	1.00

Client Sample ID: EQ-1

Date Collected: 12/13/10 17:10
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-05

Matrix: Water - NonPotable

Method: EPA 8270 SIM - PAH Compounds by EPA Method 8270 SIM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	**0.0625**	**H1, J**	0.206	0.0351	ug/L		12/21/10 10:45	01/05/11 23:41	1.00
2-Methylnaphthalene	ND	H1	0.206	0.0722	ug/L		12/21/10 10:45	01/05/11 23:41	1.00
Acenaphthene	ND	H1	0.206	0.0255	ug/L		12/21/10 10:45	01/05/11 23:41	1.00
Acenaphthylene	ND	H1	0.206	0.0224	ug/L		12/21/10 10:45	01/05/11 23:41	1.00
Anthracene	ND	H1	0.206	0.0282	ug/L		12/21/10 10:45	01/05/11 23:41	1.00
Benzo (a) anthracene	**0.0351**	**H1, J**	0.206	0.0324	ug/L		12/21/10 10:45	01/05/11 23:41	1.00
Benzo (a) pyrene	ND	H1	0.103	0.0409	ug/L		12/21/10 10:45	01/05/11 23:41	1.00
Benzo (b) fluoranthene	ND	H1	0.206	0.0317	ug/L		12/21/10 10:45	01/05/11 23:41	1.00
Benzo (g,h,i) perylene	ND	H1	0.206	0.0556	ug/L		12/21/10 10:45	01/05/11 23:41	1.00
Benzo (k) fluoranthene	ND	H1	0.206	0.0795	ug/L		12/21/10 10:45	01/05/11 23:41	1.00
Chrysene	ND	H1	0.206	0.0350	ug/L		12/21/10 10:45	01/05/11 23:41	1.00
Dibenzo (a,h) anthracene	ND	H1	0.206	0.0874	ug/L		12/21/10 10:45	01/05/11 23:41	1.00
Fluoranthene	**0.0611**	**H1, J**	0.206	0.0349	ug/L		12/21/10 10:45	01/05/11 23:41	1.00

Client Sample ID: EQ-1
Date Collected: 12/13/10 17:10
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-05
Matrix: Water - NonPotable

Method: EPA 8270 SIM - PAH Compounds by EPA Method 8270 SIM (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	ND	H1	0.206	0.0231	ug/L		12/21/10 10:45	01/05/11 23:41	1.00
Indeno (1,2,3-cd) pyrene	ND	H1	0.206	0.0507	ug/L		12/21/10 10:45	01/05/11 23:41	1.00
Naphthalene	ND	H1	0.206	0.0420	ug/L		12/21/10 10:45	01/05/11 23:41	1.00
Phenanthrene	**0.0221**	**H1, J**	0.206	0.0202	ug/L		12/21/10 10:45	01/05/11 23:41	1.00
Pyrene	ND	H1	0.206	0.0367	ug/L		12/21/10 10:45	01/05/11 23:41	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*91*	*H1*	*50 - 120*	*12/21/10 10:45*	*01/05/11 23:41*	*1.00*
Nitrobenzene-d5	*106*	*H1*	*50 - 120*	*12/21/10 10:45*	*01/05/11 23:41*	*1.00*
Terphenyl-d14	*107*	*H1*	*50 - 120*	*12/21/10 10:45*	*01/05/11 23:41*	*1.00*

Method: EPA 8081A - ORGANOCHLORINE PESTICIDES (EPA 3510C/8081A)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	H3 C-1	0.10	0.030	ug/l		12/29/10 05:34	12/29/10 18:48	1.0
4,4'-DDD	ND	H3 C-1	0.10	0.030	ug/l		12/29/10 07:34	12/29/10 20:48	1.0
4,4'-DDE	ND	H3	0.10	0.030	ug/l		12/29/10 05:34	12/29/10 18:48	1.0
4,4'-DDE	ND	H3	0.10	0.030	ug/l		12/29/10 07:34	12/29/10 20:48	1.0
4,4'-DDT	ND	H3	0.10	0.030	ug/l		12/29/10 05:34	12/29/10 18:48	1.0
4,4'-DDT	ND	H3	0.10	0.030	ug/l		12/29/10 07:34	12/29/10 20:48	1.0
Aldrin	ND	H3	0.10	0.030	ug/l		12/29/10 05:34	12/29/10 18:48	1.0
Aldrin	ND	H3	0.10	0.030	ug/l		12/29/10 07:34	12/29/10 20:48	1.0
alpha-BHC	ND	H3	0.10	0.020	ug/l		12/29/10 05:34	12/29/10 18:48	1.0
alpha-BHC	ND	H3	0.10	0.020	ug/l		12/29/10 07:34	12/29/10 20:48	1.0
beta-BHC	ND	H3	0.10	0.040	ug/l		12/29/10 05:34	12/29/10 18:48	1.0
beta-BHC	ND	H3	0.10	0.040	ug/l		12/29/10 07:34	12/29/10 20:48	1.0
delta-BHC	ND	H3 C-1d	0.20	0.020	ug/l		12/29/10 05:34	12/29/10 18:48	1.0
delta-BHC	ND	H3 C-1d	0.20	0.020	ug/l		12/29/10 07:34	12/29/10 20:48	1.0
Dieldrin	ND	H3	0.10	0.030	ug/l		12/29/10 05:34	12/29/10 18:48	1.0
Dieldrin	ND	H3	0.10	0.030	ug/l		12/29/10 07:34	12/29/10 20:48	1.0
Endosulfan I	ND	H3	0.10	0.030	ug/l		12/29/10 05:34	12/29/10 18:48	1.0
Endosulfan I	ND	H3	0.10	0.030	ug/l		12/29/10 07:34	12/29/10 20:48	1.0
Endosulfan II	ND	H3	0.10	0.040	ug/l		12/29/10 05:34	12/29/10 18:48	1.0
Endosulfan II	ND	H3	0.10	0.040	ug/l		12/29/10 07:34	12/29/10 20:48	1.0
Endosulfan sulfate	ND	H3	0.20	0.050	ug/l		12/29/10 05:34	12/29/10 18:48	1.0
Endosulfan sulfate	ND	H3	0.20	0.050	ug/l		12/29/10 07:34	12/29/10 20:48	1.0
Endrin	ND	H3	0.10	0.030	ug/l		12/29/10 05:34	12/29/10 18:48	1.0
Endrin	ND	H3	0.10	0.030	ug/l		12/29/10 07:34	12/29/10 20:48	1.0
Endrin aldehyde	ND	H3	0.10	0.050	ug/l		12/29/10 05:34	12/29/10 18:48	1.0
Endrin aldehyde	ND	H3	0.10	0.050	ug/l		12/29/10 07:34	12/29/10 20:48	1.0
Endrin ketone	ND	H3	0.10	0.040	ug/l		12/29/10 05:34	12/29/10 18:48	1.0
Endrin ketone	ND	H3	0.10	0.040	ug/l		12/29/10 07:34	12/29/10 20:48	1.0
gamma-BHC (Lindane)	ND	H3 C-1b	0.10	0.030	ug/l		12/29/10 05:34	12/29/10 18:48	1.0
gamma-BHC (Lindane)	ND	H3 C-1b	0.10	0.030	ug/l		12/29/10 07:34	12/29/10 20:48	1.0
Heptachlor	ND	H3 C-1c	0.10	0.030	ug/l		12/29/10 05:34	12/29/10 18:48	1.0
Heptachlor	ND	H3 C-1c	0.10	0.030	ug/l		12/29/10 07:34	12/29/10 20:48	1.0
Heptachlor epoxide	ND	H3	0.10	0.030	ug/l		12/29/10 05:34	12/29/10 18:48	1.0
Heptachlor epoxide	ND	H3	0.10	0.030	ug/l		12/29/10 07:34	12/29/10 20:48	1.0
Methoxychlor	ND	H3 C-1c	0.10	0.040	ug/l		12/29/10 05:34	12/29/10 18:48	1.0
Methoxychlor	ND	H3 C-1c	0.10	0.040	ug/l		12/29/10 07:34	12/29/10 20:48	1.0
Chlordane	ND	H3	1.0	0.30	ug/l		12/29/10 05:34	12/29/10 18:48	1.0
Chlordane	ND	H3	1.0	0.30	ug/l		12/29/10 07:34	12/29/10 20:48	1.0

Client Sample ID: EQ-1

Date Collected: 12/13/10 17:10
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-05

Matrix: Water - NonPotable

Method: EPA 8081A - ORGANOCHLORINE PESTICIDES (EPA 3510C/8081A) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	ND	H3	5.0	0.80	ug/l		12/29/10 05:34	12/29/10 18:48	1.0
Toxaphene	ND	H3	5.0	0.80	ug/l		12/29/10 07:34	12/29/10 20:48	1.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*95*	*H3*	*45 - 120*	*12/29/10 05:34*	*12/29/10 18:48*	*1.0*
Decachlorobiphenyl	*95*	*H3*	*45 - 120*	*12/29/10 07:34*	*12/29/10 20:48*	*1.0*
Tetrachloro-m-xylene	*79*	*H3*	*35 - 115*	*12/29/10 05:34*	*12/29/10 18:48*	*1.0*
Tetrachloro-m-xylene	*79*	*H3*	*35 - 115*	*12/29/10 07:34*	*12/29/10 20:48*	*1.0*

Method: 8290 - Dioxins/Furans, HRGC/HRMS (8290)

Analyte	Result	Qualifier	RL	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		11	0.95	1		pg/L		01/07/11 09:00	01/11/11 07:38	1.12
Total TCDD	ND		11	0.95			pg/L		01/07/11 09:00	01/11/11 07:38	1.12
1,2,3,7,8-PeCDD	ND		56	1.0	0.5		pg/L		01/07/11 09:00	01/11/11 07:38	1.12
Total PeCDD	ND		56	1.0			pg/L		01/07/11 09:00	01/11/11 07:38	1.12
1,2,3,4,7,8-HxCDD	ND		56	0.74	0.1		pg/L		01/07/11 09:00	01/11/11 07:38	1.12
1,2,3,6,7,8-HxCDD	ND		56	0.66	0.1		pg/L		01/07/11 09:00	01/11/11 07:38	1.12
1,2,3,7,8,9-HxCDD	ND		56	0.65	0.1		pg/L		01/07/11 09:00	01/11/11 07:38	1.12
Total HxCDD	ND		56	0.68			pg/L		01/07/11 09:00	01/11/11 07:38	1.12
1,2,3,4,6,7,8-HpCDD	ND		56	2.4	0.01		pg/L		01/07/11 09:00	01/11/11 07:38	1.12
Total HpCDD	ND		56	2.4			pg/L		01/07/11 09:00	01/11/11 07:38	1.12
OCDD	ND		110	4.1	0.001		pg/L		01/07/11 09:00	01/11/11 07:38	1.12
2,3,7,8-TCDF	ND		11	0.16	0.1		pg/L		01/07/11 09:00	01/11/11 07:38	1.12
Total TCDF	ND		11	0.16			pg/L		01/07/11 09:00	01/11/11 07:38	1.12
1,2,3,7,8-PeCDF	ND		56	0.54	0.05		pg/L		01/07/11 09:00	01/11/11 07:38	1.12
2,3,4,7,8-PeCDF	ND		56	0.56	0.5		pg/L		01/07/11 09:00	01/11/11 07:38	1.12
Total PeCDF	ND		56	0.55			pg/L		01/07/11 09:00	01/11/11 07:38	1.12
1,2,3,4,7,8-HxCDF	ND		56	0.76	0.1		pg/L		01/07/11 09:00	01/11/11 07:38	1.12
1,2,3,6,7,8-HxCDF	ND		56	0.72	0.1		pg/L		01/07/11 09:00	01/11/11 07:38	1.12
2,3,4,6,7,8-HxCDF	ND		56	0.75	0.1		pg/L		01/07/11 09:00	01/11/11 07:38	1.12
1,2,3,7,8,9-HxCDF	ND		56	0.84	0.1		pg/L		01/07/11 09:00	01/11/11 07:38	1.12
Total HxCDF	ND		56	0.76			pg/L		01/07/11 09:00	01/11/11 07:38	1.12
1,2,3,4,6,7,8-HpCDF	ND		56	1.6	0.01		pg/L		01/07/11 09:00	01/11/11 07:38	1.12
1,2,3,4,7,8,9-HpCDF	ND		56	2.0	0.01		pg/L		01/07/11 09:00	01/11/11 07:38	1.12
Total HpCDF	ND		56	1.8			pg/L		01/07/11 09:00	01/11/11 07:38	1.12
OCDF	ND		110	1.3	0.001		pg/L		01/07/11 09:00	01/11/11 07:38	1.12
Total TEQ						**0.00**					

Internal Standard	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*75*		*40 - 135*	*01/07/11 09:00*	*01/11/11 07:38*	*1.12*
13C-1,2,3,7,8-PeCDD	*77*		*40 - 135*	*01/07/11 09:00*	*01/11/11 07:38*	*1.12*
13C-1,2,3,6,7,8-HxCDD	*84*		*40 - 135*	*01/07/11 09:00*	*01/11/11 07:38*	*1.12*
13C-1,2,3,4,6,7,8-HpCDD	*84*		*40 - 135*	*01/07/11 09:00*	*01/11/11 07:38*	*1.12*
13C-OCDD	*76*		*40 - 135*	*01/07/11 09:00*	*01/11/11 07:38*	*1.12*
13C-2,3,7,8-TCDF	*74*		*40 - 135*	*01/07/11 09:00*	*01/11/11 07:38*	*1.12*
13C-1,2,3,7,8-PeCDF	*83*		*40 - 135*	*01/07/11 09:00*	*01/11/11 07:38*	*1.12*
13C-1,2,3,4,7,8-HxCDF	*75*		*40 - 135*	*01/07/11 09:00*	*01/11/11 07:38*	*1.12*
13C-1,2,3,4,6,7,8-HpCDF	*79*		*40 - 135*	*01/07/11 09:00*	*01/11/11 07:38*	*1.12*

Client Sample ID: EQ-1

Date Collected: 12/13/10 17:10
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-05
Matrix: Water - NonPotable

Method: EPA 6010B - METALS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10	7.0	ug/l		12/29/10 06:55	01/05/11 06:37	1.0
Arsenic	ND		10	7.0	ug/l		12/29/10 08:55	01/05/11 08:37	1.0
Barium	ND		10	6.0	ug/l		12/29/10 06:55	01/05/11 06:37	1.0
Barium	ND		10	6.0	ug/l		12/29/10 08:55	01/05/11 08:37	1.0
Cadmium	ND		5.0	2.0	ug/l		12/29/10 06:55	01/05/11 06:37	1.0
Cadmium	ND		5.0	2.0	ug/l		12/29/10 08:55	01/05/11 08:37	1.0
Chromium	ND		5.0	2.0	ug/l		12/29/10 06:55	01/05/11 06:37	1.0
Chromium	ND		5.0	2.0	ug/l		12/29/10 08:55	01/05/11 08:37	1.0
Lead	ND		5.0	4.0	ug/l		12/29/10 06:55	01/05/11 06:37	1.0
Lead	ND		5.0	4.0	ug/l		12/29/10 08:55	01/05/11 08:37	1.0
Selenium	ND		10	8.0	ug/l		12/29/10 06:55	01/05/11 06:37	1.0
Selenium	ND		10	8.0	ug/l		12/29/10 08:55	01/05/11 08:37	1.0
Silver	ND		10	6.0	ug/l		12/29/10 06:55	01/05/11 06:37	1.0
Silver	ND		10	6.0	ug/l		12/29/10 08:55	01/05/11 08:37	1.0

Method: EPA 7470A - METALS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/l		12/30/10 10:44	12/30/10 16:29	1.0
Mercury	ND		0.20	0.10	ug/l		12/30/10 12:44	12/30/10 18:29	1.0

Client Sample ID: DU-10

Date Collected: 12/14/10 10:20
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-06
Matrix: Solid/Soil
Percent Solids: 74

Method: EPA 8270 - Semivolatile Organics Compounds by EPA 8270

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	0.567	H1	0.316	0.0803	mg/kg		02/07/11 08:40	02/08/11 00:08	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*94*	*H1*	*40 - 120*	*02/07/11 08:40*	*02/08/11 00:08*	*1.00*

Method: EPA 8270C-SIM - POLYNUCLEAR AROMATIC HYDROCARBONS BY GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	10	RL1 J	81	5.4	ug/kg dry	☼	12/27/10 06:25	12/31/10 16:52	1.0
Acenaphthene	10	RL1 J	81	5.4	ug/kg dry	☼	12/27/10 08:25	12/31/10 18:52	1.0
Acenaphthylene	5.8	RL1 J	81	5.4	ug/kg dry	☼	12/27/10 06:25	12/31/10 16:52	1.0
Acenaphthylene	5.8	RL1 J	81	5.4	ug/kg dry	☼	12/27/10 08:25	12/31/10 18:52	1.0
Anthracene	44	RL1 J	81	5.4	ug/kg dry	☼	12/27/10 06:25	12/31/10 16:52	1.0
Anthracene	44	RL1 J	81	5.4	ug/kg dry	☼	12/27/10 08:25	12/31/10 18:52	1.0
Benzo(a)anthracene	150	RL1	81	5.4	ug/kg dry	☼	12/27/10 06:25	12/31/10 16:52	1.0
Benzo(a)anthracene	150	RL1	81	5.4	ug/kg dry	☼	12/27/10 08:25	12/31/10 18:52	1.0
Benzo(a)pyrene	150	RL1	81	5.4	ug/kg dry	☼	12/27/10 06:25	12/31/10 16:52	1.0
Benzo(a)pyrene	150	RL1	81	5.4	ug/kg dry	☼	12/27/10 08:25	12/31/10 18:52	1.0
Benzo(b)fluoranthene	260	RL1	81	5.4	ug/kg dry	☼	12/27/10 06:25	12/31/10 16:52	1.0
Benzo(b)fluoranthene	260	RL1	81	5.4	ug/kg dry	☼	12/27/10 08:25	12/31/10 18:52	1.0
Benzo(g,h,i)perylene	120	RL1	81	5.4	ug/kg dry	☼	12/27/10 06:25	12/31/10 16:52	1.0
Benzo(g,h,i)perylene	120	RL1	81	5.4	ug/kg dry	☼	12/27/10 08:25	12/31/10 18:52	1.0
Benzo(k)fluoranthene	70	RL1 J	81	5.4	ug/kg dry	☼	12/27/10 06:25	12/31/10 16:52	1.0
Benzo(k)fluoranthene	70	RL1 J	81	5.4	ug/kg dry	☼	12/27/10 08:25	12/31/10 18:52	1.0
Chrysene	180	RL1	81	5.4	ug/kg dry	☼	12/27/10 06:25	12/31/10 16:52	1.0
Chrysene	180	RL1	81	5.4	ug/kg dry	☼	12/27/10 08:25	12/31/10 18:52	1.0

Client Sample ID: DU-10
Date Collected: 12/14/10 10:20
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-06
Matrix: Solid/Soil
Percent Solids: 73.8

Method: EPA 8270C-SIM - POLYNUCLEAR AROMATIC HYDROCARBONS BY GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	**27**	**RL1 J**	81	6.8	ug/kg dry	☼	12/27/10 06:25	12/31/10 16:52	1.0
Dibenz(a,h)anthracene	**27**	**RL1 J**	81	6.8	ug/kg dry	☼	12/27/10 08:25	12/31/10 18:52	1.0
Fluoranthene	**290**	**RL1**	81	5.4	ug/kg dry	☼	12/27/10 06:25	12/31/10 16:52	1.0
Fluoranthene	**290**	**RL1**	81	5.4	ug/kg dry	☼	12/27/10 08:25	12/31/10 18:52	1.0
Fluorene	**12**	**RL1 J**	81	5.4	ug/kg dry	☼	12/27/10 06:25	12/31/10 16:52	1.0
Fluorene	**12**	**RL1 J**	81	5.4	ug/kg dry	☼	12/27/10 08:25	12/31/10 18:52	1.0
Indeno(1,2,3-cd)pyrene	**93**	**RL1**	81	6.8	ug/kg dry	☼	12/27/10 06:25	12/31/10 16:52	1.0
Indeno(1,2,3-cd)pyrene	**93**	**RL1**	81	6.8	ug/kg dry	☼	12/27/10 08:25	12/31/10 18:52	1.0
Naphthalene	**14**	**RL1 J**	81	9.5	ug/kg dry	☼	12/27/10 06:25	12/31/10 16:52	1.0
Naphthalene	**14**	**RL1 J**	81	9.5	ug/kg dry	☼	12/27/10 08:25	12/31/10 18:52	1.0
Phenanthrene	**230**	**RL1**	81	5.4	ug/kg dry	☼	12/27/10 06:25	12/31/10 16:52	1.0
Phenanthrene	**230**	**RL1**	81	5.4	ug/kg dry	☼	12/27/10 08:25	12/31/10 18:52	1.0
Pyrene	**280**	**RL1**	81	5.4	ug/kg dry	☼	12/27/10 06:25	12/31/10 16:52	1.0
Pyrene	**280**	**RL1**	81	5.4	ug/kg dry	☼	12/27/10 08:25	12/31/10 18:52	1.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*81*	*RL1*	*35 - 120*	*12/27/10 06:25*	*12/31/10 16:52*	*1.0*
2-Fluorobiphenyl	*81*	*RL1*	*35 - 120*	*12/27/10 08:25*	*12/31/10 18:52*	*1.0*
Nitrobenzene-d5	*78*	*RL1*	*30 - 120*	*12/27/10 06:25*	*12/31/10 16:52*	*1.0*
Nitrobenzene-d5	*78*	*RL1*	*30 - 120*	*12/27/10 08:25*	*12/31/10 18:52*	*1.0*
Terphenyl-d14	*100*	*RL1*	*40 - 135*	*12/27/10 06:25*	*12/31/10 16:52*	*1.0*
Terphenyl-d14	*100*	*RL1*	*40 - 135*	*12/27/10 08:25*	*12/31/10 18:52*	*1.0*

Method: EPA 8081A - ORGANOCHLORINE PESTICIDES (EPA 3546/8081A)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	H-1	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:29	1.0
4,4'-DDD	ND	H-1	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:29	1.0
4,4'-DDE	ND	H-1	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:29	1.0
4,4'-DDE	ND	H-1	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:29	1.0
4,4'-DDT	**8.6**	**H-1**	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:29	1.0
4,4'-DDT	**8.6**	**H-1**	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:29	1.0
Aldrin	ND	H-1	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:29	1.0
Aldrin	ND	H-1	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:29	1.0
alpha-BHC	**3.7**	**H-1 J**	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:29	1.0
alpha-BHC	**3.7**	**H-1 J**	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:29	1.0
beta-BHC	ND	H-1	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:29	1.0
beta-BHC	ND	H-1	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:29	1.0
delta-BHC	**8.3**	**H-1 J**	15	2.2	ug/kg		02/04/11 07:50	02/07/11 16:29	1.0
delta-BHC	**8.3**	**H-1 J**	15	2.2	ug/kg		02/04/11 09:50	02/07/11 18:29	1.0
Dieldrin	ND	H-1	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:29	1.0
Dieldrin	ND	H-1	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:29	1.0
Endosulfan I	ND	H-1	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:29	1.0
Endosulfan I	ND	H-1	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:29	1.0
Endosulfan II	ND	H-1	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:29	1.0
Endosulfan II	ND	H-1	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:29	1.0
Endosulfan sulfate	**3.1**	**H-1 J**	15	3.0	ug/kg		02/04/11 07:50	02/07/11 16:29	1.0
Endosulfan sulfate	**3.1**	**H-1 J**	15	3.0	ug/kg		02/04/11 09:50	02/07/11 18:29	1.0
Endrin	ND	H-1	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:29	1.0
Endrin	ND	H-1	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:29	1.0
Endrin aldehyde	ND	H-1	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:29	1.0
Endrin aldehyde	ND	H-1	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:29	1.0

Client Sample ID: DU-10

Date Collected: 12/14/10 10:20
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-06

Matrix: Solid/Soil
Percent Solids: 73.8

Method: EPA 8081A - ORGANOCHLORINE PESTICIDES (EPA 3546/8081A) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin ketone	**3.6**	**H-1 J**	7.5	3.0	ug/kg		02/04/11 07:50	02/07/11 16:29	1.0
Endrin ketone	**3.6**	**H-1 J**	7.5	3.0	ug/kg		02/04/11 09:50	02/07/11 18:29	1.0
gamma-BHC (Lindane)	ND	H-1	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:29	1.0
gamma-BHC (Lindane)	ND	H-1	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:29	1.0
Heptachlor	ND	H-1	7.5	3.0	ug/kg		02/04/11 07:50	02/07/11 16:29	1.0
Heptachlor	ND	H-1	7.5	3.0	ug/kg		02/04/11 09:50	02/07/11 18:29	1.0
Heptachlor epoxide	ND	H-1	7.5	3.0	ug/kg		02/04/11 07:50	02/07/11 16:29	1.0
Heptachlor epoxide	ND	H-1	7.5	3.0	ug/kg		02/04/11 09:50	02/07/11 18:29	1.0
Methoxychlor	**2.3**	**H-1 J**	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:29	1.0
Methoxychlor	**2.3**	**H-1 J**	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:29	1.0
Chlordane	ND	H-1	75	15	ug/kg		02/04/11 07:50	02/07/11 16:29	1.0
Chlordane	ND	H-1	75	15	ug/kg		02/04/11 09:50	02/07/11 18:29	1.0
Toxaphene	ND	H-1	300	75	ug/kg		02/04/11 07:50	02/07/11 16:29	1.0
Toxaphene	ND	H-1	300	75	ug/kg		02/04/11 09:50	02/07/11 18:29	1.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*54*	*H-1*	*45 - 120*	*02/04/11 07:50*	*02/07/11 16:29*	*1.0*
Decachlorobiphenyl	*54*	*H-1*	*45 - 120*	*02/04/11 09:50*	*02/07/11 18:29*	*1.0*
Tetrachloro-m-xylene	*64*	*H-1*	*35 - 115*	*02/04/11 07:50*	*02/07/11 16:29*	*1.0*
Tetrachloro-m-xylene	*64*	*H-1*	*35 - 115*	*02/04/11 09:50*	*02/07/11 18:29*	*1.0*

Method: 8290 - Dioxins/Furans, HRGC/HRMS (8290)

Analyte	Result	Qualifier	RL	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	**430**		91	6.2	1	430	pg/g		01/05/11 18:00	01/11/11 00:58	90.9
Total TCDD	**430**		91	6.2			pg/g		01/05/11 18:00	01/11/11 00:58	90.9
1,2,3,7,8-PeCDD	ND		450	110	0.5		pg/g		01/05/11 18:00	01/11/11 00:58	90.9
Total PeCDD	ND		450	110			pg/g		01/05/11 18:00	01/11/11 00:58	90.9
1,2,3,4,7,8-HxCDD	ND		450	190	0.1		pg/g		01/05/11 18:00	01/11/11 00:58	90.9
1,2,3,6,7,8-HxCDD	**1900**		450	13	0.1	190	pg/g		01/05/11 18:00	01/11/11 00:58	90.9
1,2,3,7,8,9-HxCDD	**470**		450	13	0.1	47	pg/g		01/05/11 18:00	01/11/11 00:58	90.9
Total HxCDD	**7600**		450	13			pg/g		01/05/11 18:00	01/11/11 00:58	90.9
1,2,3,4,6,7,8-HpCDD	**54000**		450	74	0.01	540	pg/g		01/05/11 18:00	01/11/11 00:58	90.9
Total HpCDD	**110000**		450	74			pg/g		01/05/11 18:00	01/11/11 00:58	90.9
OCDD	**630000**	**E**	910	540	0.001	630	pg/g		01/05/11 18:00	01/11/11 00:58	90.9
2,3,7,8-TCDF	ND		91	37	0.1		pg/g		01/05/11 18:00	01/11/11 00:58	90.9
Total TCDF	**210**		91	2.7			pg/g		01/05/11 18:00	01/11/11 00:58	90.9
1,2,3,7,8-PeCDF	ND		450	15	0.05		pg/g		01/05/11 18:00	01/11/11 00:58	90.9
2,3,4,7,8-PeCDF	ND		450	40	0.5		pg/g		01/05/11 18:00	01/11/11 00:58	90.9
Total PeCDF	**490**		450	7.2			pg/g		01/05/11 18:00	01/11/11 00:58	90.9
1,2,3,4,7,8-HxCDF	**590**		450	11	0.1	59	pg/g		01/05/11 18:00	01/11/11 00:58	90.9
1,2,3,6,7,8-HxCDF	ND		450	220	0.1		pg/g		01/05/11 18:00	01/11/11 00:58	90.9
2,3,4,6,7,8-HxCDF	ND		450	190	0.1		pg/g		01/05/11 18:00	01/11/11 00:58	90.9
1,2,3,7,8,9-HxCDF	ND		450	12	0.1		pg/g		01/05/11 18:00	01/11/11 00:58	90.9
Total HxCDF	**18000**		450	11			pg/g		01/05/11 18:00	01/11/11 00:58	90.9
1,2,3,4,6,7,8-HpCDF	**18000**		450	30	0.01	180	pg/g		01/05/11 18:00	01/11/11 00:58	90.9
1,2,3,4,7,8,9-HpCDF	**1100**		450	37	0.01	11	pg/g		01/05/11 18:00	01/11/11 00:58	90.9
Total HpCDF	**80000**		450	33			pg/g		01/05/11 18:00	01/11/11 00:58	90.9
OCDF	**47000**		910	23	0.001	47	pg/g		01/05/11 18:00	01/11/11 00:58	90.9
Total TEQ						**2100**					

Client Sample ID: DU-10

Date Collected: 12/14/10 10:20
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-06
Matrix: Solid/Soil

Internal Standard	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*97*		*40 - 135*	*01/05/11 18:00*	*01/11/11 00:58*	*90.9*
13C-1,2,3,7,8-PeCDD	*97*		*40 - 135*	*01/05/11 18:00*	*01/11/11 00:58*	*90.9*
13C-1,2,3,6,7,8-HxCDD	*111*		*40 - 135*	*01/05/11 18:00*	*01/11/11 00:58*	*90.9*
13C-1,2,3,4,6,7,8-HpCDD	*105*		*40 - 135*	*01/05/11 18:00*	*01/11/11 00:58*	*90.9*
13C-OCDD	*104*		*40 - 135*	*01/05/11 18:00*	*01/11/11 00:58*	*90.9*
13C-2,3,7,8-TCDF	*99*		*40 - 135*	*01/05/11 18:00*	*01/11/11 00:58*	*90.9*
13C-1,2,3,7,8-PeCDF	*106*		*40 - 135*	*01/05/11 18:00*	*01/11/11 00:58*	*90.9*
13C-1,2,3,4,7,8-HxCDF	*92*		*40 - 135*	*01/05/11 18:00*	*01/11/11 00:58*	*90.9*
13C-1,2,3,4,6,7,8-HpCDF	*95*		*40 - 135*	*01/05/11 18:00*	*01/11/11 00:58*	*90.9*

Method: EPA 6010 - Bio-available Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic Bio-accessible	**176**		1.00	0.0800	mg/kg		02/04/11 17:36	02/11/11 18:47	1.00
Arsenic Total	**905**		9.71	0.777	mg/kg		02/04/11 10:30	02/08/11 18:44	10.0

Method: EPA 6010 - Total Metals by EPA Method 6010/7471

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**714**		99.2	0.794	mg/kg		01/12/11 14:20	01/14/11 17:37	10.0
Barium	**117**		19.8	0.0833	mg/kg		01/12/11 14:20	01/14/11 15:38	1.00
Cadmium	**0.302**	**J**	3.97	0.0804	mg/kg		01/12/11 14:20	01/14/11 15:38	1.00
Chromium	**58.7**		9.92	0.0724	mg/kg		01/12/11 14:20	01/14/11 15:38	1.00
Lead	**43.9**		19.8	0.0694	mg/kg		01/12/11 14:20	01/14/11 15:38	1.00
Selenium	**2.42**	**J**	19.8	0.0893	mg/kg		01/12/11 14:20	01/14/11 15:38	1.00
Silver	ND		9.92	0.00694	mg/kg		01/12/11 14:20	01/14/11 15:38	1.00

Method: EPA 7471 - Total Metals by EPA Method 6010/7471

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**1.60**		0.0672	0.00134	mg/kg dry	☼	01/04/11 10:23	01/04/11 18:00	10.0

Method: SBRC Appendix C Rev. #8 - Bio-available Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic Bio-accessible percent	**19.5**		0.200	0.100	% by Weight		02/04/11 17:36	02/11/11 18:47	1.00

Client Sample ID: DU-5-2

Date Collected: 12/14/10 11:45
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-07
Matrix: Solid/Soil
Percent Solids: 70

Method: EPA 8270 - Semivolatile Organics Compounds by EPA 8270

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	**0.498**	**H1**	0.333	0.0847	mg/kg		02/07/11 08:40	02/08/11 00:47	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*86*	*H1*	*40 - 120*	*02/07/11 08:40*	*02/08/11 00:47*	*1.00*

Method: EPA 8270C-SIM - POLYNUCLEAR AROMATIC HYDROCARBONS BY GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		43	2.9	ug/kg dry	☼	12/27/10 06:25	12/31/10 17:16	1.0
Acenaphthene	ND		43	2.9	ug/kg dry	☼	12/27/10 08:25	12/31/10 19:16	1.0
Acenaphthylene	ND		43	2.9	ug/kg dry	☼	12/27/10 06:25	12/31/10 17:16	1.0
Acenaphthylene	ND		43	2.9	ug/kg dry	☼	12/27/10 08:25	12/31/10 19:16	1.0
Anthracene	**4.7**	**J**	43	2.9	ug/kg dry	☼	12/27/10 06:25	12/31/10 17:16	1.0
Anthracene	**4.7**	**J**	43	2.9	ug/kg dry	☼	12/27/10 08:25	12/31/10 19:16	1.0
Benzo(a)anthracene	**3.5**	**J**	43	2.9	ug/kg dry	☼	12/27/10 06:25	12/31/10 17:16	1.0

Client Sample ID: DU-5-2
Date Collected: 12/14/10 11:45
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-07
Matrix: Solid/Soil
Percent Solids: 69.7

Method: EPA 8270C-SIM - POLYNUCLEAR AROMATIC HYDROCARBONS BY GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo(a)anthracene	**3.5**	**J**	43	2.9	ug/kg dry	☼	12/27/10 08:25	12/31/10 19:16	1.0
Benzo(a)pyrene	**4.6**	**J**	43	2.9	ug/kg dry	☼	12/27/10 06:25	12/31/10 17:16	1.0
Benzo(a)pyrene	**4.6**	**J**	43	2.9	ug/kg dry	☼	12/27/10 08:25	12/31/10 19:16	1.0
Benzo(b)fluoranthene	**8.3**	**J**	43	2.9	ug/kg dry	☼	12/27/10 06:25	12/31/10 17:16	1.0
Benzo(b)fluoranthene	**8.3**	**J**	43	2.9	ug/kg dry	☼	12/27/10 08:25	12/31/10 19:16	1.0
Benzo(g,h,i)perylene	**6.1**	**J**	43	2.9	ug/kg dry	☼	12/27/10 06:25	12/31/10 17:16	1.0
Benzo(g,h,i)perylene	**6.1**	**J**	43	2.9	ug/kg dry	☼	12/27/10 08:25	12/31/10 19:16	1.0
Benzo(k)fluoranthene	**3.1**	**J**	43	2.9	ug/kg dry	☼	12/27/10 06:25	12/31/10 17:16	1.0
Benzo(k)fluoranthene	**3.1**	**J**	43	2.9	ug/kg dry	☼	12/27/10 08:25	12/31/10 19:16	1.0
Chrysene	**6.8**	**J**	43	2.9	ug/kg dry	☼	12/27/10 06:25	12/31/10 17:16	1.0
Chrysene	**6.8**	**J**	43	2.9	ug/kg dry	☼	12/27/10 08:25	12/31/10 19:16	1.0
Dibenz(a,h)anthracene	ND		43	3.6	ug/kg dry	☼	12/27/10 06:25	12/31/10 17:16	1.0
Dibenz(a,h)anthracene	ND		43	3.6	ug/kg dry	☼	12/27/10 08:25	12/31/10 19:16	1.0
Fluoranthene	**6.8**	**J**	43	2.9	ug/kg dry	☼	12/27/10 06:25	12/31/10 17:16	1.0
Fluoranthene	**6.8**	**J**	43	2.9	ug/kg dry	☼	12/27/10 08:25	12/31/10 19:16	1.0
Fluorene	ND		43	2.9	ug/kg dry	☼	12/27/10 06:25	12/31/10 17:16	1.0
Fluorene	ND		43	2.9	ug/kg dry	☼	12/27/10 08:25	12/31/10 19:16	1.0
Indeno(1,2,3-cd)pyrene	**3.6**	**J**	43	3.6	ug/kg dry	☼	12/27/10 06:25	12/31/10 17:16	1.0
Indeno(1,2,3-cd)pyrene	**3.6**	**J**	43	3.6	ug/kg dry	☼	12/27/10 08:25	12/31/10 19:16	1.0
Naphthalene	ND		43	5.0	ug/kg dry	☼	12/27/10 06:25	12/31/10 17:16	1.0
Naphthalene	ND		43	5.0	ug/kg dry	☼	12/27/10 08:25	12/31/10 19:16	1.0
Phenanthrene	**14**	**J**	43	2.9	ug/kg dry	☼	12/27/10 06:25	12/31/10 17:16	1.0
Phenanthrene	**14**	**J**	43	2.9	ug/kg dry	☼	12/27/10 08:25	12/31/10 19:16	1.0
Pyrene	**7.5**	**J**	43	2.9	ug/kg dry	☼	12/27/10 06:25	12/31/10 17:16	1.0
Pyrene	**7.5**	**J**	43	2.9	ug/kg dry	☼	12/27/10 08:25	12/31/10 19:16	1.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*35 - 120*	*12/27/10 06:25*	*12/31/10 17:16*	*1.0*
2-Fluorobiphenyl	*82*		*35 - 120*	*12/27/10 08:25*	*12/31/10 19:16*	*1.0*
Nitrobenzene-d5	*88*		*30 - 120*	*12/27/10 06:25*	*12/31/10 17:16*	*1.0*
Nitrobenzene-d5	*88*		*30 - 120*	*12/27/10 08:25*	*12/31/10 19:16*	*1.0*
Terphenyl-d14	*96*		*40 - 135*	*12/27/10 06:25*	*12/31/10 17:16*	*1.0*
Terphenyl-d14	*96*		*40 - 135*	*12/27/10 08:25*	*12/31/10 19:16*	*1.0*

Method: EPA 8081A - ORGANOCHLORINE PESTICIDES (EPA 3546/8081A)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	H-1, RL4	7.4	2.2	ug/kg		02/04/11 07:50	02/07/11 16:43	1.0
4,4'-DDD	ND	H-1, RL4	7.4	2.2	ug/kg		02/04/11 09:50	02/07/11 18:43	1.0
4,4'-DDE	ND	H-1, RL4	7.4	2.2	ug/kg		02/04/11 07:50	02/07/11 16:43	1.0
4,4'-DDE	ND	H-1, RL4	7.4	2.2	ug/kg		02/04/11 09:50	02/07/11 18:43	1.0
4,4'-DDT	ND	H-1, RL4	7.4	2.2	ug/kg		02/04/11 07:50	02/07/11 16:43	1.0
4,4'-DDT	ND	H-1, RL4	7.4	2.2	ug/kg		02/04/11 09:50	02/07/11 18:43	1.0
Aldrin	ND	H-1, RL4	7.4	2.2	ug/kg		02/04/11 07:50	02/07/11 16:43	1.0
Aldrin	ND	H-1, RL4	7.4	2.2	ug/kg		02/04/11 09:50	02/07/11 18:43	1.0
alpha-BHC	**4.4**	**H-1, RL4 J**	7.4	2.2	ug/kg		02/04/11 07:50	02/07/11 16:43	1.0
alpha-BHC	**4.4**	**H-1, RL4 J**	7.4	2.2	ug/kg		02/04/11 09:50	02/07/11 18:43	1.0
beta-BHC	ND	H-1, RL4	7.4	2.2	ug/kg		02/04/11 07:50	02/07/11 16:43	1.0
beta-BHC	ND	H-1, RL4	7.4	2.2	ug/kg		02/04/11 09:50	02/07/11 18:43	1.0
delta-BHC	**2.2**	**H-1, RL4 J**	15	2.2	ug/kg		02/04/11 07:50	02/07/11 16:43	1.0
delta-BHC	**2.2**	**H-1, RL4 J**	15	2.2	ug/kg		02/04/11 09:50	02/07/11 18:43	1.0
Dieldrin	ND	H-1, RL4	7.4	2.2	ug/kg		02/04/11 07:50	02/07/11 16:43	1.0

Client Sample ID: DU-5-2
Date Collected: 12/14/10 11:45
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-07
Matrix: Solid/Soil
Percent Solids: 69.7

Method: EPA 8081A - ORGANOCHLORINE PESTICIDES (EPA 3546/8081A) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	ND	H-1, RL4	7.4	2.2	ug/kg		02/04/11 09:50	02/07/11 18:43	1.0
Endosulfan I	ND	H-1, RL4	7.4	2.2	ug/kg		02/04/11 07:50	02/07/11 16:43	1.0
Endosulfan I	ND	H-1, RL4	7.4	2.2	ug/kg		02/04/11 09:50	02/07/11 18:43	1.0
Endosulfan II	ND	H-1, RL4	7.4	2.2	ug/kg		02/04/11 07:50	02/07/11 16:43	1.0
Endosulfan II	ND	H-1, RL4	7.4	2.2	ug/kg		02/04/11 09:50	02/07/11 18:43	1.0
Endosulfan sulfate	ND	H-1, RL4	15	3.0	ug/kg		02/04/11 07:50	02/07/11 16:43	1.0
Endosulfan sulfate	ND	H-1, RL4	15	3.0	ug/kg		02/04/11 09:50	02/07/11 18:43	1.0
Endrin	**2.9**	**H-1, RL4 J**	7.4	2.2	ug/kg		02/04/11 07:50	02/07/11 16:43	1.0
Endrin	**2.9**	**H-1, RL4 J**	7.4	2.2	ug/kg		02/04/11 09:50	02/07/11 18:43	1.0
Endrin aldehyde	ND	H-1, RL4	7.4	2.2	ug/kg		02/04/11 07:50	02/07/11 16:43	1.0
Endrin aldehyde	ND	H-1, RL4	7.4	2.2	ug/kg		02/04/11 09:50	02/07/11 18:43	1.0
Endrin ketone	ND	H-1, RL4	7.4	3.0	ug/kg		02/04/11 07:50	02/07/11 16:43	1.0
Endrin ketone	ND	H-1, RL4	7.4	3.0	ug/kg		02/04/11 09:50	02/07/11 18:43	1.0
gamma-BHC (Lindane)	ND	H-1, RL4	7.4	2.2	ug/kg		02/04/11 07:50	02/07/11 16:43	1.0
gamma-BHC (Lindane)	ND	H-1, RL4	7.4	2.2	ug/kg		02/04/11 09:50	02/07/11 18:43	1.0
Heptachlor	ND	H-1, RL4	7.4	3.0	ug/kg		02/04/11 07:50	02/07/11 16:43	1.0
Heptachlor	ND	H-1, RL4	7.4	3.0	ug/kg		02/04/11 09:50	02/07/11 18:43	1.0
Heptachlor epoxide	ND	H-1, RL4	7.4	3.0	ug/kg		02/04/11 07:50	02/07/11 16:43	1.0
Heptachlor epoxide	ND	H-1, RL4	7.4	3.0	ug/kg		02/04/11 09:50	02/07/11 18:43	1.0
Methoxychlor	ND	H-1, RL4	7.4	2.2	ug/kg		02/04/11 07:50	02/07/11 16:43	1.0
Methoxychlor	ND	H-1, RL4	7.4	2.2	ug/kg		02/04/11 09:50	02/07/11 18:43	1.0
Chlordane	ND	H-1, RL4	74	15	ug/kg		02/04/11 07:50	02/07/11 16:43	1.0
Chlordane	ND	H-1, RL4	74	15	ug/kg		02/04/11 09:50	02/07/11 18:43	1.0
Toxaphene	ND	H-1, RL4	300	74	ug/kg		02/04/11 07:50	02/07/11 16:43	1.0
Toxaphene	ND	H-1, RL4	300	74	ug/kg		02/04/11 09:50	02/07/11 18:43	1.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*56*	*H-1, RL4*	*45 - 120*	*02/04/11 07:50*	*02/07/11 16:43*	*1.0*
Decachlorobiphenyl	*56*	*H-1, RL4*	*45 - 120*	*02/04/11 09:50*	*02/07/11 18:43*	*1.0*
Tetrachloro-m-xylene	*50*	*H-1, RL4*	*35 - 115*	*02/04/11 07:50*	*02/07/11 16:43*	*1.0*
Tetrachloro-m-xylene	*50*	*H-1, RL4*	*35 - 115*	*02/04/11 09:50*	*02/07/11 18:43*	*1.0*

Method: 8290 - Dioxins/Furans, HRGC/HRMS (8290)

Analyte	Result	Qualifier	RL	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		20	8.4	1		pg/g		01/05/11 18:00	01/11/11 01:42	19.6
Total TCDD	ND		20	8.4			pg/g		01/05/11 18:00	01/11/11 01:42	19.6
1,2,3,7,8-PeCDD	ND		98	44	0.5		pg/g		01/05/11 18:00	01/11/11 01:42	19.6
Total PeCDD	ND		98	44			pg/g		01/05/11 18:00	01/11/11 01:42	19.6
1,2,3,4,7,8-HxCDD	ND		98	86	0.1		pg/g		01/05/11 18:00	01/11/11 01:42	19.6
1,2,3,6,7,8-HxCDD	**660**		98	5.8	0.1	66	pg/g		01/05/11 18:00	01/11/11 01:42	19.6
1,2,3,7,8,9-HxCDD	**180**		98	5.7	0.1	18	pg/g		01/05/11 18:00	01/11/11 01:42	19.6
Total HxCDD	**2500**		98	6.0			pg/g		01/05/11 18:00	01/11/11 01:42	19.6
1,2,3,4,6,7,8-HpCDD	**16000**		98	34	0.01	160	pg/g		01/05/11 18:00	01/11/11 01:42	19.6
Total HpCDD	**31000**		98	34			pg/g		01/05/11 18:00	01/11/11 01:42	19.6
OCDD	**190000**	**E**	200	180	0.001	190	pg/g		01/05/11 18:00	01/11/11 01:42	19.6
2,3,7,8-TCDF	ND		20	5.5	0.1		pg/g		01/05/11 18:00	01/11/11 01:42	19.6
Total TCDF	**36**		20	0.76			pg/g		01/05/11 18:00	01/11/11 01:42	19.6
1,2,3,7,8-PeCDF	ND		98	7.7	0.05		pg/g		01/05/11 18:00	01/11/11 01:42	19.6
2,3,4,7,8-PeCDF	ND		98	7.8	0.5		pg/g		01/05/11 18:00	01/11/11 01:42	19.6
Total PeCDF	**200**		98	2.7			pg/g		01/05/11 18:00	01/11/11 01:42	19.6
1,2,3,4,7,8-HxCDF	**130**		98	5.0	0.1	13	pg/g		01/05/11 18:00	01/11/11 01:42	19.6

Client Sample ID: DU-5-2

Date Collected: 12/14/10 11:45
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-07
Matrix: Solid/Soil

Method: 8290 - Dioxins/Furans, HRGC/HRMS (8290) (Continued)

Analyte	Result	Qualifier	RL	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,6,7,8-HxCDF	ND		98	56	0.1		pg/g		01/05/11 18:00	01/11/11 01:42	19.6
2,3,4,6,7,8-HxCDF	ND		98	54	0.1		pg/g		01/05/11 18:00	01/11/11 01:42	19.6
1,2,3,7,8,9-HxCDF	ND		98	5.5	0.1		pg/g		01/05/11 18:00	01/11/11 01:42	19.6
Total HxCDF	**6000**		98	5.0			pg/g		01/05/11 18:00	01/11/11 01:42	19.6
1,2,3,4,6,7,8-HpCDF	**5800**		98	9.6	0.01	58	pg/g		01/05/11 18:00	01/11/11 01:42	19.6
1,2,3,4,7,8,9-HpCDF	**320**		98	12	0.01	3.2	pg/g		01/05/11 18:00	01/11/11 01:42	19.6
Total HpCDF	**25000**		98	11			pg/g		01/05/11 18:00	01/11/11 01:42	19.6
OCDF	**11000**		200	10	0.001	11	pg/g		01/05/11 18:00	01/11/11 01:42	19.6
Total TEQ						**520**					

Internal Standard	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*106*		*40 - 135*	*01/05/11 18:00*	*01/11/11 01:42*	*19.6*
13C-1,2,3,7,8-PeCDD	*93*		*40 - 135*	*01/05/11 18:00*	*01/11/11 01:42*	*19.6*
13C-1,2,3,6,7,8-HxCDD	*99*		*40 - 135*	*01/05/11 18:00*	*01/11/11 01:42*	*19.6*
13C-1,2,3,4,6,7,8-HpCDD	*105*		*40 - 135*	*01/05/11 18:00*	*01/11/11 01:42*	*19.6*
13C-OCDD	*124*		*40 - 135*	*01/05/11 18:00*	*01/11/11 01:42*	*19.6*
13C-2,3,7,8-TCDF	*92*		*40 - 135*	*01/05/11 18:00*	*01/11/11 01:42*	*19.6*
13C-1,2,3,7,8-PeCDF	*104*		*40 - 135*	*01/05/11 18:00*	*01/11/11 01:42*	*19.6*
13C-1,2,3,4,7,8-HxCDF	*86*		*40 - 135*	*01/05/11 18:00*	*01/11/11 01:42*	*19.6*
13C-1,2,3,4,6,7,8-HpCDF	*91*		*40 - 135*	*01/05/11 18:00*	*01/11/11 01:42*	*19.6*

Method: EPA 6010 - Bio-available Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic Bio-accessible	**54.7**		1.00	0.0800	mg/kg		02/04/11 17:36	02/11/11 18:47	1.00
Arsenic Total	**498**		9.26	0.741	mg/kg		02/04/11 10:30	02/08/11 18:49	10.0

Method: EPA 6010 - Total Metals by EPA Method 6010/7471

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**306**		9.86	0.0789	mg/kg		01/12/11 14:20	01/14/11 15:43	1.00
Barium	**83.8**		19.7	0.0828	mg/kg		01/12/11 14:20	01/14/11 15:43	1.00
Cadmium	**0.369**	**J**	3.94	0.0799	mg/kg		01/12/11 14:20	01/14/11 15:43	1.00
Chromium	**77.6**		9.86	0.0720	mg/kg		01/12/11 14:20	01/14/11 15:43	1.00
Lead	**20.1**		19.7	0.0690	mg/kg		01/12/11 14:20	01/14/11 15:43	1.00
Selenium	**2.74**	**J**	19.7	0.0888	mg/kg		01/12/11 14:20	01/14/11 15:43	1.00
Silver	**0.341**	**J**	9.86	0.00690	mg/kg		01/12/11 14:20	01/14/11 15:43	1.00

Method: EPA 7471 - Total Metals by EPA Method 6010/7471

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.556**		0.0651	0.00130	mg/kg dry	☼	01/04/11 10:23	01/04/11 17:13	10.0

Method: SBRC Appendix C Rev. #8 - Bio-available Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic Bio-accessible percent	**11.0**		0.200	0.100	% by Weight		02/04/11 17:36	02/11/11 18:47	1.00

Client Sample ID: DU-6-2

Date Collected: 12/14/10 13:50
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-08
Matrix: Solid/Soil
Percent Solids: 75

Method: EPA 8270 - Semivolatile Organics Compounds by EPA 8270

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	**1.37**	**H1**	0.319	0.0811	mg/kg		02/07/11 08:40	02/08/11 01:27	1.00

Client Sample ID: DU-6-2
Date Collected: 12/14/10 13:50
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-08
Matrix: Solid/Soil
Percent Solids: 75

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	97	H1	40 - 120	02/07/11 08:40	02/08/11 01:27	1.00

Method: EPA 8270C-SIM - POLYNUCLEAR AROMATIC HYDROCARBONS BY GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	RL2	320	21	ug/kg dry	☼	12/27/10 06:25	12/31/10 17:41	4.0
Acenaphthene	ND	RL2	320	21	ug/kg dry	☼	12/27/10 08:25	12/31/10 19:41	4.0
Acenaphthylene	ND	RL2	320	21	ug/kg dry	☼	12/27/10 06:25	12/31/10 17:41	4.0
Acenaphthylene	ND	RL2	320	21	ug/kg dry	☼	12/27/10 08:25	12/31/10 19:41	4.0
Anthracene	**23**	**RL2 J**	320	21	ug/kg dry	☼	12/27/10 06:25	12/31/10 17:41	4.0
Anthracene	**23**	**RL2 J**	320	21	ug/kg dry	☼	12/27/10 08:25	12/31/10 19:41	4.0
Benzo(a)anthracene	ND	RL2	320	21	ug/kg dry	☼	12/27/10 06:25	12/31/10 17:41	4.0
Benzo(a)anthracene	ND	RL2	320	21	ug/kg dry	☼	12/27/10 08:25	12/31/10 19:41	4.0
Benzo(a)pyrene	ND	RL2	320	21	ug/kg dry	☼	12/27/10 06:25	12/31/10 17:41	4.0
Benzo(a)pyrene	ND	RL2	320	21	ug/kg dry	☼	12/27/10 08:25	12/31/10 19:41	4.0
Benzo(b)fluoranthene	**23**	**RL2 J**	320	21	ug/kg dry	☼	12/27/10 06:25	12/31/10 17:41	4.0
Benzo(b)fluoranthene	**23**	**RL2 J**	320	21	ug/kg dry	☼	12/27/10 08:25	12/31/10 19:41	4.0
Benzo(g,h,i)perylene	**32**	**RL2 J**	320	21	ug/kg dry	☼	12/27/10 06:25	12/31/10 17:41	4.0
Benzo(g,h,i)perylene	**32**	**RL2 J**	320	21	ug/kg dry	☼	12/27/10 08:25	12/31/10 19:41	4.0
Benzo(k)fluoranthene	ND	RL2	320	21	ug/kg dry	☼	12/27/10 06:25	12/31/10 17:41	4.0
Benzo(k)fluoranthene	ND	RL2	320	21	ug/kg dry	☼	12/27/10 08:25	12/31/10 19:41	4.0
Chrysene	ND	RL2	320	21	ug/kg dry	☼	12/27/10 06:25	12/31/10 17:41	4.0
Chrysene	ND	RL2	320	21	ug/kg dry	☼	12/27/10 08:25	12/31/10 19:41	4.0
Dibenz(a,h)anthracene	ND	RL2	320	27	ug/kg dry	☼	12/27/10 06:25	12/31/10 17:41	4.0
Dibenz(a,h)anthracene	ND	RL2	320	27	ug/kg dry	☼	12/27/10 08:25	12/31/10 19:41	4.0
Fluoranthene	ND	RL2	320	21	ug/kg dry	☼	12/27/10 06:25	12/31/10 17:41	4.0
Fluoranthene	ND	RL2	320	21	ug/kg dry	☼	12/27/10 08:25	12/31/10 19:41	4.0
Fluorene	ND	RL2	320	21	ug/kg dry	☼	12/27/10 06:25	12/31/10 17:41	4.0
Fluorene	ND	RL2	320	21	ug/kg dry	☼	12/27/10 08:25	12/31/10 19:41	4.0
Indeno(1,2,3-cd)pyrene	ND	RL2	320	27	ug/kg dry	☼	12/27/10 06:25	12/31/10 17:41	4.0
Indeno(1,2,3-cd)pyrene	ND	RL2	320	27	ug/kg dry	☼	12/27/10 08:25	12/31/10 19:41	4.0
Naphthalene	ND	RL2	320	37	ug/kg dry	☼	12/27/10 06:25	12/31/10 17:41	4.0
Naphthalene	ND	RL2	320	37	ug/kg dry	☼	12/27/10 08:25	12/31/10 19:41	4.0
Phenanthrene	ND	RL2	320	21	ug/kg dry	☼	12/27/10 06:25	12/31/10 17:41	4.0
Phenanthrene	ND	RL2	320	21	ug/kg dry	☼	12/27/10 08:25	12/31/10 19:41	4.0
Pyrene	ND	RL2	320	21	ug/kg dry	☼	12/27/10 06:25	12/31/10 17:41	4.0
Pyrene	ND	RL2	320	21	ug/kg dry	☼	12/27/10 08:25	12/31/10 19:41	4.0

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77	RL2	35 - 120	12/27/10 06:25	12/31/10 17:41	4.0
2-Fluorobiphenyl	77	RL2	35 - 120	12/27/10 08:25	12/31/10 19:41	4.0
Nitrobenzene-d5	81	RL2	30 - 120	12/27/10 06:25	12/31/10 17:41	4.0
Nitrobenzene-d5	81	RL2	30 - 120	12/27/10 08:25	12/31/10 19:41	4.0
Terphenyl-d14	100	RL2	40 - 135	12/27/10 06:25	12/31/10 17:41	4.0
Terphenyl-d14	100	RL2	40 - 135	12/27/10 08:25	12/31/10 19:41	4.0

Method: EPA 8081A - ORGANOCHLORINE PESTICIDES (EPA 3546/8081A)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:57	1.0
4,4'-DDD	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:57	1.0
4,4'-DDE	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:57	1.0
4,4'-DDE	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:57	1.0
4,4'-DDT	**7.1**	**H-1, RL4 J**	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:57	1.0

Client Sample ID: DU-6-2

Date Collected: 12/14/10 13:50
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-08

Matrix: Solid/Soil
Percent Solids: 75.1

Method: EPA 8081A - ORGANOCHLORINE PESTICIDES (EPA 3546/8081A) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDT	**7.1**	**H-1, RL4 J**	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:57	1.0
Aldrin	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:57	1.0
Aldrin	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:57	1.0
alpha-BHC	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:57	1.0
alpha-BHC	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:57	1.0
beta-BHC	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:57	1.0
beta-BHC	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:57	1.0
delta-BHC	**7.8**	**H-1, RL4 J**	15	2.2	ug/kg		02/04/11 07:50	02/07/11 16:57	1.0
delta-BHC	**7.8**	**H-1, RL4 J**	15	2.2	ug/kg		02/04/11 09:50	02/07/11 18:57	1.0
Dieldrin	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:57	1.0
Dieldrin	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:57	1.0
Endosulfan I	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:57	1.0
Endosulfan I	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:57	1.0
Endosulfan II	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:57	1.0
Endosulfan II	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:57	1.0
Endosulfan sulfate	ND	H-1, RL4	15	3.0	ug/kg		02/04/11 07:50	02/07/11 16:57	1.0
Endosulfan sulfate	ND	H-1, RL4	15	3.0	ug/kg		02/04/11 09:50	02/07/11 18:57	1.0
Endrin	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:57	1.0
Endrin	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:57	1.0
Endrin aldehyde	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:57	1.0
Endrin aldehyde	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:57	1.0
Endrin ketone	ND	H-1, RL4	7.5	3.0	ug/kg		02/04/11 07:50	02/07/11 16:57	1.0
Endrin ketone	ND	H-1, RL4	7.5	3.0	ug/kg		02/04/11 09:50	02/07/11 18:57	1.0
gamma-BHC (Lindane)	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:57	1.0
gamma-BHC (Lindane)	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:57	1.0
Heptachlor	ND	H-1, RL4	7.5	3.0	ug/kg		02/04/11 07:50	02/07/11 16:57	1.0
Heptachlor	ND	H-1, RL4	7.5	3.0	ug/kg		02/04/11 09:50	02/07/11 18:57	1.0
Heptachlor epoxide	ND	H-1, RL4	7.5	3.0	ug/kg		02/04/11 07:50	02/07/11 16:57	1.0
Heptachlor epoxide	ND	H-1, RL4	7.5	3.0	ug/kg		02/04/11 09:50	02/07/11 18:57	1.0
Methoxychlor	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 16:57	1.0
Methoxychlor	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 18:57	1.0
Chlordane	ND	H-1, RL4	75	15	ug/kg		02/04/11 07:50	02/07/11 16:57	1.0
Chlordane	ND	H-1, RL4	75	15	ug/kg		02/04/11 09:50	02/07/11 18:57	1.0
Toxaphene	ND	H-1, RL4	300	75	ug/kg		02/04/11 07:50	02/07/11 16:57	1.0
Toxaphene	ND	H-1, RL4	300	75	ug/kg		02/04/11 09:50	02/07/11 18:57	1.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*56*	*H-1, RL4*	*45 - 120*	*02/04/11 07:50*	*02/07/11 16:57*	*1.0*
Decachlorobiphenyl	*56*	*H-1, RL4*	*45 - 120*	*02/04/11 09:50*	*02/07/11 18:57*	*1.0*
Tetrachloro-m-xylene	*55*	*H-1, RL4*	*35 - 115*	*02/04/11 07:50*	*02/07/11 16:57*	*1.0*
Tetrachloro-m-xylene	*55*	*H-1, RL4*	*35 - 115*	*02/04/11 09:50*	*02/07/11 18:57*	*1.0*

Method: 8290 - Dioxins/Furans, HRGC/HRMS (8290)

Analyte	Result	Qualifier	RL	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		83	10	1		pg/g		01/05/11 18:00	01/11/11 02:27	83.33
Total TCDD	ND		83	13			pg/g		01/05/11 18:00	01/11/11 02:27	83.33
1,2,3,7,8-PeCDD	ND		420	89	0.5		pg/g		01/05/11 18:00	01/11/11 02:27	83.33
Total PeCDD	ND		420	89			pg/g		01/05/11 18:00	01/11/11 02:27	83.33
1,2,3,4,7,8-HxCDD	ND		420	170	0.1		pg/g		01/05/11 18:00	01/11/11 02:27	83.33
1,2,3,6,7,8-HxCDD	**1400**		420	7.6	0.1	140	pg/g		01/05/11 18:00	01/11/11 02:27	83.33
1,2,3,7,8,9-HxCDD	ND		420	400	0.1		pg/g		01/05/11 18:00	01/11/11 02:27	83.33

Client Sample ID: DU-6-2

Date Collected: 12/14/10 13:50
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-08

Matrix: Solid/Soil

Method: 8290 - Dioxins/Furans, HRGC/HRMS (8290) (Continued)

Analyte	Result	Qualifier	RL	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
Total HxCDD	**5100**		420	7.8			pg/g		01/05/11 18:00	01/11/11 02:27	83.33
1,2,3,4,6,7,8-HpCDD	**43000**		420	96	0.01	430	pg/g		01/05/11 18:00	01/11/11 02:27	83.33
Total HpCDD	**96000**		420	96			pg/g		01/05/11 18:00	01/11/11 02:27	83.33
OCDD	**610000**	**E**	830	520	0.001	610	pg/g		01/05/11 18:00	01/11/11 02:27	83.33
2,3,7,8-TCDF	ND		83	6.6	0.1		pg/g		01/05/11 18:00	01/11/11 02:27	83.33
Total TCDF	ND		83	67			pg/g		01/05/11 18:00	01/11/11 02:27	83.33
1,2,3,7,8-PeCDF	ND		420	12	0.05		pg/g		01/05/11 18:00	01/11/11 02:27	83.33
2,3,4,7,8-PeCDF	ND		420	19	0.5		pg/g		01/05/11 18:00	01/11/11 02:27	83.33
Total PeCDF	**530**		420	6.9			pg/g		01/05/11 18:00	01/11/11 02:27	83.33
1,2,3,4,7,8-HxCDF	ND		420	360	0.1		pg/g		01/05/11 18:00	01/11/11 02:27	83.33
1,2,3,6,7,8-HxCDF	ND		420	140	0.1		pg/g		01/05/11 18:00	01/11/11 02:27	83.33
2,3,4,6,7,8-HxCDF	ND		420	150	0.1		pg/g		01/05/11 18:00	01/11/11 02:27	83.33
1,2,3,7,8,9-HxCDF	ND		420	14	0.1		pg/g		01/05/11 18:00	01/11/11 02:27	83.33
Total HxCDF	**13000**		420	13			pg/g		01/05/11 18:00	01/11/11 02:27	83.33
1,2,3,4,6,7,8-HpCDF	**14000**		420	38	0.01	140	pg/g		01/05/11 18:00	01/11/11 02:27	83.33
1,2,3,4,7,8,9-HpCDF	**830**		420	47	0.01	8.3	pg/g		01/05/11 18:00	01/11/11 02:27	83.33
Total HpCDF	**65000**		420	42			pg/g		01/05/11 18:00	01/11/11 02:27	83.33
OCDF	**37000**		830	15	0.001	37	pg/g		01/05/11 18:00	01/11/11 02:27	83.33
Total TEQ						**1400**					

Internal Standard	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*101*		*40 - 135*	*01/05/11 18:00*	*01/11/11 02:27*	*83.33*
13C-1,2,3,7,8-PeCDD	*101*		*40 - 135*	*01/05/11 18:00*	*01/11/11 02:27*	*83.33*
13C-1,2,3,6,7,8-HxCDD	*108*		*40 - 135*	*01/05/11 18:00*	*01/11/11 02:27*	*83.33*
13C-1,2,3,4,6,7,8-HpCDD	*109*		*40 - 135*	*01/05/11 18:00*	*01/11/11 02:27*	*83.33*
13C-OCDD	*109*		*40 - 135*	*01/05/11 18:00*	*01/11/11 02:27*	*83.33*
13C-2,3,7,8-TCDF	*106*		*40 - 135*	*01/05/11 18:00*	*01/11/11 02:27*	*83.33*
13C-1,2,3,7,8-PeCDF	*113*		*40 - 135*	*01/05/11 18:00*	*01/11/11 02:27*	*83.33*
13C-1,2,3,4,7,8-HxCDF	*96*		*40 - 135*	*01/05/11 18:00*	*01/11/11 02:27*	*83.33*
13C-1,2,3,4,6,7,8-HpCDF	*98*		*40 - 135*	*01/05/11 18:00*	*01/11/11 02:27*	*83.33*

Method: EPA 6010 - Bio-available Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic Bio-accessible	**59.9**		1.00	0.0800	mg/kg		02/04/11 17:36	02/11/11 18:47	1.00
Arsenic Total	**627**		9.43	0.755	mg/kg		02/04/11 10:30	02/08/11 18:54	10.0

Method: EPA 6010 - Total Metals by EPA Method 6010/7471

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**368**		9.31	0.0745	mg/kg		01/12/11 14:20	01/14/11 15:48	1.00
Barium	**73.2**		18.6	0.0782	mg/kg		01/12/11 14:20	01/14/11 15:48	1.00
Cadmium	**2.39**	**J**	3.72	0.0754	mg/kg		01/12/11 14:20	01/14/11 15:48	1.00
Chromium	**84.8**		9.31	0.0680	mg/kg		01/12/11 14:20	01/14/11 15:48	1.00
Lead	**66.0**		18.6	0.0652	mg/kg		01/12/11 14:20	01/14/11 15:48	1.00
Selenium	**2.00**	**J**	18.6	0.0838	mg/kg		01/12/11 14:20	01/14/11 15:48	1.00
Silver	ND		9.31	0.00652	mg/kg		01/12/11 14:20	01/14/11 15:48	1.00

Method: EPA 7471 - Total Metals by EPA Method 6010/7471

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**1.21**		0.0645	0.00129	mg/kg dry	☼	01/04/11 10:23	01/04/11 17:14	10.0

Client Sample ID: DU-6-2

Date Collected: 12/14/10 13:50
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-08
Matrix: Solid/Soil
Percent Solids: 75

Method: SBRC Appendix C Rev. #8 - Bio-available Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic Bio-accessible percent	9.55		0.200	0.100	% by Weight		02/04/11 17:36	02/11/11 18:47	1.00

Client Sample ID: DU-9-2

Date Collected: 12/14/10 15:00
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-09
Matrix: Solid/Soil
Percent Solids: 72

Method: EPA 8270 - Semivolatile Organics Compounds by EPA 8270

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	0.785	H1 A-01	0.631	0.160	mg/kg		02/07/11 08:40	02/08/11 17:11	2.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*79*	*H1 A-01*	*40 - 120*	*02/07/11 08:40*	*02/08/11 17:11*	*2.00*

Method: EPA 8270C-SIM - POLYNUCLEAR AROMATIC HYDROCARBONS BY GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		42	2.8	ug/kg dry	☼	12/27/10 06:25	12/31/10 18:06	1.0
Acenaphthene	ND		42	2.8	ug/kg dry	☼	12/27/10 08:25	12/31/10 20:06	1.0
Acenaphthylene	ND		42	2.8	ug/kg dry	☼	12/27/10 06:25	12/31/10 18:06	1.0
Acenaphthylene	ND		42	2.8	ug/kg dry	☼	12/27/10 08:25	12/31/10 20:06	1.0
Anthracene	4.3	J	42	2.8	ug/kg dry	☼	12/27/10 06:25	12/31/10 18:06	1.0
Anthracene	4.3	J	42	2.8	ug/kg dry	☼	12/27/10 08:25	12/31/10 20:06	1.0
Benzo(a)anthracene	ND		42	2.8	ug/kg dry	☼	12/27/10 06:25	12/31/10 18:06	1.0
Benzo(a)anthracene	ND		42	2.8	ug/kg dry	☼	12/27/10 08:25	12/31/10 20:06	1.0
Benzo(a)pyrene	3.1	J	42	2.8	ug/kg dry	☼	12/27/10 06:25	12/31/10 18:06	1.0
Benzo(a)pyrene	3.1	J	42	2.8	ug/kg dry	☼	12/27/10 08:25	12/31/10 20:06	1.0
Benzo(b)fluoranthene	7.3	J	42	2.8	ug/kg dry	☼	12/27/10 06:25	12/31/10 18:06	1.0
Benzo(b)fluoranthene	7.3	J	42	2.8	ug/kg dry	☼	12/27/10 08:25	12/31/10 20:06	1.0
Benzo(g,h,i)perylene	6.1	J	42	2.8	ug/kg dry	☼	12/27/10 06:25	12/31/10 18:06	1.0
Benzo(g,h,i)perylene	6.1	J	42	2.8	ug/kg dry	☼	12/27/10 08:25	12/31/10 20:06	1.0
Benzo(k)fluoranthene	ND		42	2.8	ug/kg dry	☼	12/27/10 06:25	12/31/10 18:06	1.0
Benzo(k)fluoranthene	ND		42	2.8	ug/kg dry	☼	12/27/10 08:25	12/31/10 20:06	1.0
Chrysene	5.7	J	42	2.8	ug/kg dry	☼	12/27/10 06:25	12/31/10 18:06	1.0
Chrysene	5.7	J	42	2.8	ug/kg dry	☼	12/27/10 08:25	12/31/10 20:06	1.0
Dibenz(a,h)anthracene	ND		42	3.5	ug/kg dry	☼	12/27/10 06:25	12/31/10 18:06	1.0
Dibenz(a,h)anthracene	ND		42	3.5	ug/kg dry	☼	12/27/10 08:25	12/31/10 20:06	1.0
Fluoranthene	4.5	J	42	2.8	ug/kg dry	☼	12/27/10 06:25	12/31/10 18:06	1.0
Fluoranthene	4.5	J	42	2.8	ug/kg dry	☼	12/27/10 08:25	12/31/10 20:06	1.0
Fluorene	ND		42	2.8	ug/kg dry	☼	12/27/10 06:25	12/31/10 18:06	1.0
Fluorene	ND		42	2.8	ug/kg dry	☼	12/27/10 08:25	12/31/10 20:06	1.0
Indeno(1,2,3-cd)pyrene	4.0	J	42	3.5	ug/kg dry	☼	12/27/10 06:25	12/31/10 18:06	1.0
Indeno(1,2,3-cd)pyrene	4.0	J	42	3.5	ug/kg dry	☼	12/27/10 08:25	12/31/10 20:06	1.0
Naphthalene	ND		42	4.9	ug/kg dry	☼	12/27/10 06:25	12/31/10 18:06	1.0
Naphthalene	ND		42	4.9	ug/kg dry	☼	12/27/10 08:25	12/31/10 20:06	1.0
Phenanthrene	4.8	J	42	2.8	ug/kg dry	☼	12/27/10 06:25	12/31/10 18:06	1.0
Phenanthrene	4.8	J	42	2.8	ug/kg dry	☼	12/27/10 08:25	12/31/10 20:06	1.0
Pyrene	5.7	J	42	2.8	ug/kg dry	☼	12/27/10 06:25	12/31/10 18:06	1.0
Pyrene	5.7	J	42	2.8	ug/kg dry	☼	12/27/10 08:25	12/31/10 20:06	1.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*89*		*35 - 120*	*12/27/10 06:25*	*12/31/10 18:06*	*1.0*
2-Fluorobiphenyl	*89*		*35 - 120*	*12/27/10 08:25*	*12/31/10 20:06*	*1.0*

Client Sample ID: DU-9-2
Date Collected: 12/14/10 15:00
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-09
Matrix: Solid/Soil
Percent Solids: 71.6

Method: EPA 8270C-SIM - POLYNUCLEAR AROMATIC HYDROCARBONS BY GC/MS (Continued)

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	92		30 - 120	12/27/10 06:25	12/31/10 18:06	1.0
Nitrobenzene-d5	92		30 - 120	12/27/10 08:25	12/31/10 20:06	1.0
Terphenyl-d14	108		40 - 135	12/27/10 06:25	12/31/10 18:06	1.0
Terphenyl-d14	108		40 - 135	12/27/10 08:25	12/31/10 20:06	1.0

Method: EPA 8081A - ORGANOCHLORINE PESTICIDES (EPA 3546/8081A)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 17:12	1.0
4,4'-DDD	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 19:12	1.0
4,4'-DDE	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 17:12	1.0
4,4'-DDE	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 19:12	1.0
4,4'-DDT	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 17:12	1.0
4,4'-DDT	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 19:12	1.0
Aldrin	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 17:12	1.0
Aldrin	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 19:12	1.0
alpha-BHC	**5.3**	**H-1, RL4 J**	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 17:12	1.0
alpha-BHC	**5.3**	**H-1, RL4 J**	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 19:12	1.0
beta-BHC	**4.2**	**H-1, RL4 J**	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 17:12	1.0
beta-BHC	**4.2**	**H-1, RL4 J**	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 19:12	1.0
delta-BHC	ND	H-1, RL4	15	2.2	ug/kg		02/04/11 07:50	02/07/11 17:12	1.0
delta-BHC	ND	H-1, RL4	15	2.2	ug/kg		02/04/11 09:50	02/07/11 19:12	1.0
Dieldrin	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 17:12	1.0
Dieldrin	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 19:12	1.0
Endosulfan I	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 17:12	1.0
Endosulfan I	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 19:12	1.0
Endosulfan II	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 17:12	1.0
Endosulfan II	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 19:12	1.0
Endosulfan sulfate	ND	H-1, RL4	15	3.0	ug/kg		02/04/11 07:50	02/07/11 17:12	1.0
Endosulfan sulfate	ND	H-1, RL4	15	3.0	ug/kg		02/04/11 09:50	02/07/11 19:12	1.0
Endrin	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 17:12	1.0
Endrin	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 19:12	1.0
Endrin aldehyde	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 17:12	1.0
Endrin aldehyde	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 19:12	1.0
Endrin ketone	ND	H-1, RL4	7.5	3.0	ug/kg		02/04/11 07:50	02/07/11 17:12	1.0
Endrin ketone	ND	H-1, RL4	7.5	3.0	ug/kg		02/04/11 09:50	02/07/11 19:12	1.0
gamma-BHC (Lindane)	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 17:12	1.0
gamma-BHC (Lindane)	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 19:12	1.0
Heptachlor	ND	H-1, RL4	7.5	3.0	ug/kg		02/04/11 07:50	02/07/11 17:12	1.0
Heptachlor	ND	H-1, RL4	7.5	3.0	ug/kg		02/04/11 09:50	02/07/11 19:12	1.0
Heptachlor epoxide	ND	H-1, RL4	7.5	3.0	ug/kg		02/04/11 07:50	02/07/11 17:12	1.0
Heptachlor epoxide	ND	H-1, RL4	7.5	3.0	ug/kg		02/04/11 09:50	02/07/11 19:12	1.0
Methoxychlor	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 17:12	1.0
Methoxychlor	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 19:12	1.0
Chlordane	ND	H-1, RL4	75	15	ug/kg		02/04/11 07:50	02/07/11 17:12	1.0
Chlordane	ND	H-1, RL4	75	15	ug/kg		02/04/11 09:50	02/07/11 19:12	1.0
Toxaphene	ND	H-1, RL4	300	75	ug/kg		02/04/11 07:50	02/07/11 17:12	1.0
Toxaphene	ND	H-1, RL4	300	75	ug/kg		02/04/11 09:50	02/07/11 19:12	1.0

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Decachlorobiphenyl	95	H-1, RL4	45 - 120	02/04/11 07:50	02/07/11 17:12	1.0
Decachlorobiphenyl	95	H-1, RL4	45 - 120	02/04/11 09:50	02/07/11 19:12	1.0

Client Sample ID: DU-9-2
Date Collected: 12/14/10 15:00
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-09
Matrix: Solid/Soil
Percent Solids: 71.6

Method: EPA 8081A - ORGANOCHLORINE PESTICIDES (EPA 3546/8081A) (Continued)

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*65*	*H-1, RL4*	*35 - 115*	*02/04/11 07:50*	*02/07/11 17:12*	*1.0*
Tetrachloro-m-xylene	*65*	*H-1, RL4*	*35 - 115*	*02/04/11 09:50*	*02/07/11 19:12*	*1.0*

Method: 8290 - Dioxins/Furans, HRGC/HRMS (8290)

Analyte	Result	Qualifier	RL	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		50	32	1		pg/g		01/05/11 18:00	01/11/11 03:11	50
Total TCDD	**470**		50	3.9			pg/g		01/05/11 18:00	01/11/11 03:11	50
1,2,3,7,8-PeCDD	ND		250	98	0.5		pg/g		01/05/11 18:00	01/11/11 03:11	50
Total PeCDD	ND		250	240			pg/g		01/05/11 18:00	01/11/11 03:11	50
1,2,3,4,7,8-HxCDD	ND		250	210	0.1		pg/g		01/05/11 18:00	01/11/11 03:11	50
1,2,3,6,7,8-HxCDD	**2400**		250	12	0.1	240	pg/g		01/05/11 18:00	01/11/11 03:11	50
1,2,3,7,8,9-HxCDD	**740**		250	12	0.1	74	pg/g		01/05/11 18:00	01/11/11 03:11	50
Total HxCDD	**14000**		250	13			pg/g		01/05/11 18:00	01/11/11 03:11	50
1,2,3,4,6,7,8-HpCDD	**66000**		250	64	0.01	660	pg/g		01/05/11 18:00	01/11/11 03:11	50
Total HpCDD	**140000**		250	64			pg/g		01/05/11 18:00	01/11/11 03:11	50
OCDD	**520000**	**E**	500	480	0.001	520	pg/g		01/05/11 18:00	01/11/11 03:11	50
2,3,7,8-TCDF	ND	CON	50	7.8	0.1		pg/g		01/05/11 18:00	01/11/11 03:11	50
Total TCDF	**1400**		50	1.8			pg/g		01/05/11 18:00	01/11/11 03:11	50
1,2,3,7,8-PeCDF	ND		250	11	0.05		pg/g		01/05/11 18:00	01/11/11 03:11	50
2,3,4,7,8-PeCDF	ND		250	22	0.5		pg/g		01/05/11 18:00	01/11/11 03:11	50
Total PeCDF	**790**		250	5.0			pg/g		01/05/11 18:00	01/11/11 03:11	50
1,2,3,4,7,8-HxCDF	**560**		250	12	0.1	56	pg/g		01/05/11 18:00	01/11/11 03:11	50
1,2,3,6,7,8-HxCDF	ND		250	170	0.1		pg/g		01/05/11 18:00	01/11/11 03:11	50
2,3,4,6,7,8-HxCDF	ND		250	110	0.1		pg/g		01/05/11 18:00	01/11/11 03:11	50
1,2,3,7,8,9-HxCDF	ND		250	13	0.1		pg/g		01/05/11 18:00	01/11/11 03:11	50
Total HxCDF	**17000**		250	12			pg/g		01/05/11 18:00	01/11/11 03:11	50
1,2,3,4,6,7,8-HpCDF	**14000**		250	23	0.01	140	pg/g		01/05/11 18:00	01/11/11 03:11	50
1,2,3,4,7,8,9-HpCDF	**1400**		250	28	0.01	14	pg/g		01/05/11 18:00	01/11/11 03:11	50
Total HpCDF	**74000**		250	25			pg/g		01/05/11 18:00	01/11/11 03:11	50
OCDF	**39000**		500	49	0.001	39	pg/g		01/05/11 18:00	01/11/11 03:11	50
Total TEQ						**1700**					

Internal Standard	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*109*		*40 - 135*	*01/05/11 18:00*	*01/11/11 03:11*	*50*
13C-1,2,3,7,8-PeCDD	*102*		*40 - 135*	*01/05/11 18:00*	*01/11/11 03:11*	*50*
13C-1,2,3,6,7,8-HxCDD	*113*		*40 - 135*	*01/05/11 18:00*	*01/11/11 03:11*	*50*
13C-1,2,3,4,6,7,8-HpCDD	*112*		*40 - 135*	*01/05/11 18:00*	*01/11/11 03:11*	*50*
13C-OCDD	*113*		*40 - 135*	*01/05/11 18:00*	*01/11/11 03:11*	*50*
13C-2,3,7,8-TCDF	*108*		*40 - 135*	*01/05/11 18:00*	*01/11/11 03:11*	*50*
13C-1,2,3,7,8-PeCDF	*119*		*40 - 135*	*01/05/11 18:00*	*01/11/11 03:11*	*50*
13C-1,2,3,4,7,8-HxCDF	*99*		*40 - 135*	*01/05/11 18:00*	*01/11/11 03:11*	*50*
13C-1,2,3,4,6,7,8-HpCDF	*103*		*40 - 135*	*01/05/11 18:00*	*01/11/11 03:11*	*50*

Method: EPA 6010 - Bio-available Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic Bio-accessible	**98.9**		1.00	0.0800	mg/kg		02/04/11 17:36	02/11/11 18:47	1.00
Arsenic Total	**675**		9.35	0.748	mg/kg		02/04/11 10:30	02/08/11 18:59	10.0

Client Sample ID: DU-9-2

Date Collected: 12/14/10 15:00
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-09

Matrix: Solid/Soil
Percent Solids: 72

Method: EPA 6010 - Total Metals by EPA Method 6010/7471

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**489**		9.82	0.0786	mg/kg		01/12/11 14:20	01/14/11 15:53	1.00
Barium	**133**		19.6	0.0825	mg/kg		01/12/11 14:20	01/14/11 15:53	1.00
Cadmium	ND		3.93	0.0796	mg/kg		01/12/11 14:20	01/14/11 15:53	1.00
Chromium	**37.3**		9.82	0.0717	mg/kg		01/12/11 14:20	01/14/11 15:53	1.00
Lead	**12.4**	**J**	19.6	0.0688	mg/kg		01/12/11 14:20	01/14/11 15:53	1.00
Selenium	**2.78**	**J**	19.6	0.0884	mg/kg		01/12/11 14:20	01/14/11 15:53	1.00
Silver	**1.21**	**J**	9.82	0.00688	mg/kg		01/12/11 14:20	01/14/11 15:53	1.00

Method: EPA 7471 - Total Metals by EPA Method 6010/7471

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.525**		0.0682	0.00136	mg/kg dry	☼	01/04/11 10:23	01/04/11 17:16	10.0

Method: SBRC Appendix C Rev. #8 - Bio-available Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic Bio-accessible percent	**14.7**		0.200	0.100	% by Weight		02/04/11 17:36	02/11/11 18:47	1.00

Client Sample ID: EQ-2

Date Collected: 12/14/10 15:10
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-10

Matrix: Water - NonPotable

Method: EPA 8270 SIM - PAH Compounds by EPA Method 8270 SIM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	**0.0615**	**J**	0.204	0.0347	ug/L		12/21/10 10:45	01/06/11 00:16	1.00
2-Methylnaphthalene	ND		0.204	0.0714	ug/L		12/21/10 10:45	01/06/11 00:16	1.00
Acenaphthene	ND		0.204	0.0252	ug/L		12/21/10 10:45	01/06/11 00:16	1.00
Acenaphthylene	ND		0.204	0.0221	ug/L		12/21/10 10:45	01/06/11 00:16	1.00
Anthracene	ND		0.204	0.0280	ug/L		12/21/10 10:45	01/06/11 00:16	1.00
Benzo (a) anthracene	**0.0324**	**J**	0.204	0.0320	ug/L		12/21/10 10:45	01/06/11 00:16	1.00
Benzo (a) pyrene	ND		0.102	0.0405	ug/L		12/21/10 10:45	01/06/11 00:16	1.00
Benzo (b) fluoranthene	ND		0.204	0.0314	ug/L		12/21/10 10:45	01/06/11 00:16	1.00
Benzo (g,h,i) perylene	ND		0.204	0.0550	ug/L		12/21/10 10:45	01/06/11 00:16	1.00
Benzo (k) fluoranthene	ND		0.204	0.0787	ug/L		12/21/10 10:45	01/06/11 00:16	1.00
Chrysene	ND		0.204	0.0346	ug/L		12/21/10 10:45	01/06/11 00:16	1.00
Dibenzo (a,h) anthracene	ND		0.204	0.0865	ug/L		12/21/10 10:45	01/06/11 00:16	1.00
Fluoranthene	**0.0590**	**J**	0.204	0.0346	ug/L		12/21/10 10:45	01/06/11 00:16	1.00
Fluorene	ND		0.204	0.0229	ug/L		12/21/10 10:45	01/06/11 00:16	1.00
Indeno (1,2,3-cd) pyrene	ND		0.204	0.0502	ug/L		12/21/10 10:45	01/06/11 00:16	1.00
Naphthalene	ND		0.204	0.0416	ug/L		12/21/10 10:45	01/06/11 00:16	1.00
Phenanthrene	ND		0.204	0.0200	ug/L		12/21/10 10:45	01/06/11 00:16	1.00
Pyrene	ND		0.204	0.0363	ug/L		12/21/10 10:45	01/06/11 00:16	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*101*		*50 - 120*	*12/21/10 10:45*	*01/06/11 00:16*	*1.00*
Nitrobenzene-d5	*110*		*50 - 120*	*12/21/10 10:45*	*01/06/11 00:16*	*1.00*
Terphenyl-d14	*96*		*50 - 120*	*12/21/10 10:45*	*01/06/11 00:16*	*1.00*

Method: EPA 6010B - METALS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10	7.0	ug/l		12/29/10 06:55	01/05/11 06:40	1.0
Arsenic	ND		10	7.0	ug/l		12/29/10 08:55	01/05/11 08:40	1.0
Barium	ND		10	6.0	ug/l		12/29/10 06:55	01/05/11 06:40	1.0
Barium	ND		10	6.0	ug/l		12/29/10 08:55	01/05/11 08:40	1.0

Client Sample ID: EQ-2

Date Collected: 12/14/10 15:10
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-10

Matrix: Water - NonPotable

Method: EPA 6010B - METALS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		5.0	2.0	ug/l		12/29/10 06:55	01/05/11 06:40	1.0
Cadmium	ND		5.0	2.0	ug/l		12/29/10 08:55	01/05/11 08:40	1.0
Chromium	ND		5.0	2.0	ug/l		12/29/10 06:55	01/05/11 06:40	1.0
Chromium	ND		5.0	2.0	ug/l		12/29/10 08:55	01/05/11 08:40	1.0
Lead	ND		5.0	4.0	ug/l		12/29/10 06:55	01/05/11 06:40	1.0
Lead	ND		5.0	4.0	ug/l		12/29/10 08:55	01/05/11 08:40	1.0
Selenium	ND		10	8.0	ug/l		12/29/10 06:55	01/05/11 06:40	1.0
Selenium	ND		10	8.0	ug/l		12/29/10 08:55	01/05/11 08:40	1.0
Silver	ND		10	6.0	ug/l		12/29/10 06:55	01/05/11 06:40	1.0
Silver	ND		10	6.0	ug/l		12/29/10 08:55	01/05/11 08:40	1.0

Method: EPA 7470A - METALS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/l		12/30/10 10:44	12/30/10 16:31	1.0
Mercury	ND		0.20	0.10	ug/l		12/30/10 12:44	12/30/10 18:31	1.0

Client Sample ID: DU-13-4

Date Collected: 12/15/10 11:30
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-11

Matrix: Solid/Soil
Percent Solids: 70

Method: EPA 8270 - Semivolatile Organics Compounds by EPA 8270

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	**0.297**	**H1 J**	0.314	0.0798	mg/kg		02/07/11 08:40	02/08/11 02:05	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*89*	*H1*	*40 - 120*	*02/07/11 08:40*	*02/08/11 02:05*	*1.00*

Method: EPA 8270C-SIM - POLYNUCLEAR AROMATIC HYDROCARBONS BY GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		43	2.9	ug/kg dry	☼	12/27/10 06:25	12/31/10 18:31	1.0
Acenaphthene	ND		43	2.9	ug/kg dry	☼	12/27/10 08:25	12/31/10 20:31	1.0
Acenaphthylene	ND		43	2.9	ug/kg dry	☼	12/27/10 06:25	12/31/10 18:31	1.0
Acenaphthylene	ND		43	2.9	ug/kg dry	☼	12/27/10 08:25	12/31/10 20:31	1.0
Anthracene	**11**	**J**	43	2.9	ug/kg dry	☼	12/27/10 06:25	12/31/10 18:31	1.0
Anthracene	**11**	**J**	43	2.9	ug/kg dry	☼	12/27/10 08:25	12/31/10 20:31	1.0
Benzo(a)anthracene	**6.5**	**J**	43	2.9	ug/kg dry	☼	12/27/10 06:25	12/31/10 18:31	1.0
Benzo(a)anthracene	**6.5**	**J**	43	2.9	ug/kg dry	☼	12/27/10 08:25	12/31/10 20:31	1.0
Benzo(a)pyrene	**6.6**	**J**	43	2.9	ug/kg dry	☼	12/27/10 06:25	12/31/10 18:31	1.0
Benzo(a)pyrene	**6.6**	**J**	43	2.9	ug/kg dry	☼	12/27/10 08:25	12/31/10 20:31	1.0
Benzo(b)fluoranthene	**13**	**J**	43	2.9	ug/kg dry	☼	12/27/10 06:25	12/31/10 18:31	1.0
Benzo(b)fluoranthene	**13**	**J**	43	2.9	ug/kg dry	☼	12/27/10 08:25	12/31/10 20:31	1.0
Benzo(g,h,i)perylene	**14**	**J**	43	2.9	ug/kg dry	☼	12/27/10 06:25	12/31/10 18:31	1.0
Benzo(g,h,i)perylene	**14**	**J**	43	2.9	ug/kg dry	☼	12/27/10 08:25	12/31/10 20:31	1.0
Benzo(k)fluoranthene	ND		43	2.9	ug/kg dry	☼	12/27/10 06:25	12/31/10 18:31	1.0
Benzo(k)fluoranthene	ND		43	2.9	ug/kg dry	☼	12/27/10 08:25	12/31/10 20:31	1.0
Chrysene	**12**	**J**	43	2.9	ug/kg dry	☼	12/27/10 06:25	12/31/10 18:31	1.0
Chrysene	**12**	**J**	43	2.9	ug/kg dry	☼	12/27/10 08:25	12/31/10 20:31	1.0
Dibenz(a,h)anthracene	ND		43	3.6	ug/kg dry	☼	12/27/10 06:25	12/31/10 18:31	1.0
Dibenz(a,h)anthracene	ND		43	3.6	ug/kg dry	☼	12/27/10 08:25	12/31/10 20:31	1.0
Fluoranthene	**6.5**	**J**	43	2.9	ug/kg dry	☼	12/27/10 06:25	12/31/10 18:31	1.0
Fluoranthene	**6.5**	**J**	43	2.9	ug/kg dry	☼	12/27/10 08:25	12/31/10 20:31	1.0

Client Sample ID: DU-13-4
Date Collected: 12/15/10 11:30
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-11
Matrix: Solid/Soil
Percent Solids: 69.9

Method: EPA 8270C-SIM - POLYNUCLEAR AROMATIC HYDROCARBONS BY GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	ND		43	2.9	ug/kg dry	☼	12/27/10 06:25	12/31/10 18:31	1.0
Fluorene	ND		43	2.9	ug/kg dry	☼	12/27/10 08:25	12/31/10 20:31	1.0
Indeno(1,2,3-cd)pyrene	**5.9**	**J**	43	3.6	ug/kg dry	☼	12/27/10 06:25	12/31/10 18:31	1.0
Indeno(1,2,3-cd)pyrene	**5.9**	**J**	43	3.6	ug/kg dry	☼	12/27/10 08:25	12/31/10 20:31	1.0
Naphthalene	ND		43	5.0	ug/kg dry	☼	12/27/10 06:25	12/31/10 18:31	1.0
Naphthalene	ND		43	5.0	ug/kg dry	☼	12/27/10 08:25	12/31/10 20:31	1.0
Phenanthrene	**6.9**	**J**	43	2.9	ug/kg dry	☼	12/27/10 06:25	12/31/10 18:31	1.0
Phenanthrene	**6.9**	**J**	43	2.9	ug/kg dry	☼	12/27/10 08:25	12/31/10 20:31	1.0
Pyrene	**9.3**	**J**	43	2.9	ug/kg dry	☼	12/27/10 06:25	12/31/10 18:31	1.0
Pyrene	**9.3**	**J**	43	2.9	ug/kg dry	☼	12/27/10 08:25	12/31/10 20:31	1.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*76*		*35 - 120*	*12/27/10 06:25*	*12/31/10 18:31*	*1.0*
2-Fluorobiphenyl	*76*		*35 - 120*	*12/27/10 08:25*	*12/31/10 20:31*	*1.0*
Nitrobenzene-d5	*84*		*30 - 120*	*12/27/10 06:25*	*12/31/10 18:31*	*1.0*
Nitrobenzene-d5	*84*		*30 - 120*	*12/27/10 08:25*	*12/31/10 20:31*	*1.0*
Terphenyl-d14	*97*		*40 - 135*	*12/27/10 06:25*	*12/31/10 18:31*	*1.0*
Terphenyl-d14	*97*		*40 - 135*	*12/27/10 08:25*	*12/31/10 20:31*	*1.0*

Method: EPA 8081A - ORGANOCHLORINE PESTICIDES (EPA 3546/8081A)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 15:17	1.0
4,4'-DDD	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 17:17	1.0
4,4'-DDE	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 15:17	1.0
4,4'-DDE	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 17:17	1.0
4,4'-DDT	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 15:17	1.0
4,4'-DDT	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 17:17	1.0
Aldrin	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 15:17	1.0
Aldrin	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 17:17	1.0
alpha-BHC	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 15:17	1.0
alpha-BHC	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 17:17	1.0
beta-BHC	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 15:17	1.0
beta-BHC	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 17:17	1.0
delta-BHC	**2.7**	**H-1, RL4 J**	15	2.2	ug/kg		02/04/11 07:50	02/07/11 15:17	1.0
delta-BHC	**2.7**	**H-1, RL4 J**	15	2.2	ug/kg		02/04/11 09:50	02/07/11 17:17	1.0
Dieldrin	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 15:17	1.0
Dieldrin	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 17:17	1.0
Endosulfan I	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 15:17	1.0
Endosulfan I	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 17:17	1.0
Endosulfan II	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 15:17	1.0
Endosulfan II	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 17:17	1.0
Endosulfan sulfate	ND	H-1, RL4	15	3.0	ug/kg		02/04/11 07:50	02/07/11 15:17	1.0
Endosulfan sulfate	ND	H-1, RL4	15	3.0	ug/kg		02/04/11 09:50	02/07/11 17:17	1.0
Endrin	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 15:17	1.0
Endrin	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 17:17	1.0
Endrin aldehyde	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 15:17	1.0
Endrin aldehyde	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 17:17	1.0
Endrin ketone	ND	H-1, RL4	7.5	3.0	ug/kg		02/04/11 07:50	02/07/11 15:17	1.0
Endrin ketone	ND	H-1, RL4	7.5	3.0	ug/kg		02/04/11 09:50	02/07/11 17:17	1.0
gamma-BHC (Lindane)	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 15:17	1.0
gamma-BHC (Lindane)	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 17:17	1.0

Client Sample ID: DU-13-4
Date Collected: 12/15/10 11:30
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-11
Matrix: Solid/Soil
Percent Solids: 69.9

Method: EPA 8081A - ORGANOCHLORINE PESTICIDES (EPA 3546/8081A) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND	H-1, RL4	7.5	3.0	ug/kg		02/04/11 07:50	02/07/11 15:17	1.0
Heptachlor	ND	H-1, RL4	7.5	3.0	ug/kg		02/04/11 09:50	02/07/11 17:17	1.0
Heptachlor epoxide	ND	H-1, RL4	7.5	3.0	ug/kg		02/04/11 07:50	02/07/11 15:17	1.0
Heptachlor epoxide	ND	H-1, RL4	7.5	3.0	ug/kg		02/04/11 09:50	02/07/11 17:17	1.0
Methoxychlor	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 15:17	1.0
Methoxychlor	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 17:17	1.0
Chlordane	ND	H-1, RL4	75	15	ug/kg		02/04/11 07:50	02/07/11 15:17	1.0
Chlordane	ND	H-1, RL4	75	15	ug/kg		02/04/11 09:50	02/07/11 17:17	1.0
Toxaphene	ND	H-1, RL4	300	75	ug/kg		02/04/11 07:50	02/07/11 15:17	1.0
Toxaphene	ND	H-1, RL4	300	75	ug/kg		02/04/11 09:50	02/07/11 17:17	1.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*64*	*H-1, RL4*	*45 - 120*	*02/04/11 07:50*	*02/07/11 15:17*	*1.0*
Decachlorobiphenyl	*64*	*H-1, RL4*	*45 - 120*	*02/04/11 09:50*	*02/07/11 17:17*	*1.0*
Tetrachloro-m-xylene	*69*	*H-1, RL4*	*35 - 115*	*02/04/11 07:50*	*02/07/11 15:17*	*1.0*
Tetrachloro-m-xylene	*69*	*H-1, RL4*	*35 - 115*	*02/04/11 09:50*	*02/07/11 17:17*	*1.0*

Method: 8290 - Dioxins/Furans, HRGC/HRMS (8290)

Analyte	Result	Qualifier	RL	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	**5.0**		5.0	0.45	1	5.0	pg/g		01/05/11 18:00	01/11/11 03:56	4.95
Total TCDD	**5.0**		5.0	0.45			pg/g		01/05/11 18:00	01/11/11 03:56	4.95
1,2,3,7,8-PeCDD	ND		25	16	0.5		pg/g		01/05/11 18:00	01/11/11 03:56	4.95
Total PeCDD	ND		25	16			pg/g		01/05/11 18:00	01/11/11 03:56	4.95
1,2,3,4,7,8-HxCDD	**25**		25	1.2	0.1	2.5	pg/g		01/05/11 18:00	01/11/11 03:56	4.95
1,2,3,6,7,8-HxCDD	**220**		25	1.1	0.1	22	pg/g		01/05/11 18:00	01/11/11 03:56	4.95
1,2,3,7,8,9-HxCDD	**57**		25	1.1	0.1	5.7	pg/g		01/05/11 18:00	01/11/11 03:56	4.95
Total HxCDD	**820**		25	1.1			pg/g		01/05/11 18:00	01/11/11 03:56	4.95
1,2,3,4,6,7,8-HpCDD	**5600**		25	8.9	0.01	56	pg/g		01/05/11 18:00	01/11/11 03:56	4.95
Total HpCDD	**11000**		25	8.9			pg/g		01/05/11 18:00	01/11/11 03:56	4.95
OCDD	**65000**	**E**	50	48	0.001	65	pg/g		01/05/11 18:00	01/11/11 03:56	4.95
2,3,7,8-TCDF	ND		5.0	2.0	0.1		pg/g		01/05/11 18:00	01/11/11 03:56	4.95
Total TCDF	**13**		5.0	0.14			pg/g		01/05/11 18:00	01/11/11 03:56	4.95
1,2,3,7,8-PeCDF	ND		25	2.2	0.05		pg/g		01/05/11 18:00	01/11/11 03:56	4.95
2,3,4,7,8-PeCDF	ND		25	2.7	0.5		pg/g		01/05/11 18:00	01/11/11 03:56	4.95
Total PeCDF	**70**		25	0.49			pg/g		01/05/11 18:00	01/11/11 03:56	4.95
1,2,3,4,7,8-HxCDF	**40**		25	1.8	0.1	4.0	pg/g		01/05/11 18:00	01/11/11 03:56	4.95
1,2,3,6,7,8-HxCDF	ND		25	22	0.1		pg/g		01/05/11 18:00	01/11/11 03:56	4.95
2,3,4,6,7,8-HxCDF	ND		25	15	0.1		pg/g		01/05/11 18:00	01/11/11 03:56	4.95
1,2,3,7,8,9-HxCDF	ND		25	2.0	0.1		pg/g		01/05/11 18:00	01/11/11 03:56	4.95
Total HxCDF	**1900**		25	1.9			pg/g		01/05/11 18:00	01/11/11 03:56	4.95
1,2,3,4,6,7,8-HpCDF	**1900**		25	2.6	0.01	19	pg/g		01/05/11 18:00	01/11/11 03:56	4.95
1,2,3,4,7,8,9-HpCDF	**100**		25	3.1	0.01	1.0	pg/g		01/05/11 18:00	01/11/11 03:56	4.95
Total HpCDF	**8300**		25	2.8			pg/g		01/05/11 18:00	01/11/11 03:56	4.95
OCDF	**4700**		50	2.5	0.001	4.7	pg/g		01/05/11 18:00	01/11/11 03:56	4.95
Total TEQ						**180**					

Internal Standard	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*92*		*40 - 135*	*01/05/11 18:00*	*01/11/11 03:56*	*4.95*
13C-1,2,3,7,8-PeCDD	*85*		*40 - 135*	*01/05/11 18:00*	*01/11/11 03:56*	*4.95*
13C-1,2,3,6,7,8-HxCDD	*99*		*40 - 135*	*01/05/11 18:00*	*01/11/11 03:56*	*4.95*
13C-1,2,3,4,6,7,8-HpCDD	*100*		*40 - 135*	*01/05/11 18:00*	*01/11/11 03:56*	*4.95*

Client Sample ID: DU-13-4

Date Collected: 12/15/10 11:30
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-11

Matrix: Solid/Soil

Method: 8290 - Dioxins/Furans, HRGC/HRMS (8290) (Continued)

Internal Standard	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-OCDD	*106*		*40 - 135*	*01/05/11 18:00*	*01/11/11 03:56*	*4.95*
13C-2,3,7,8-TCDF	*88*		*40 - 135*	*01/05/11 18:00*	*01/11/11 03:56*	*4.95*
13C-1,2,3,7,8-PeCDF	*95*		*40 - 135*	*01/05/11 18:00*	*01/11/11 03:56*	*4.95*
13C-1,2,3,4,7,8-HxCDF	*87*		*40 - 135*	*01/05/11 18:00*	*01/11/11 03:56*	*4.95*
13C-1,2,3,4,6,7,8-HpCDF	*94*		*40 - 135*	*01/05/11 18:00*	*01/11/11 03:56*	*4.95*

Method: EPA 6010 - Bio-available Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic Bio-accessible	**10.8**		1.00	0.0800	mg/kg		02/04/11 17:36	02/11/11 18:47	1.00
Arsenic Total	**126**		0.952	0.0762	mg/kg		02/04/11 10:30	02/04/11 15:47	1.00

Method: EPA 6010 - Total Metals by EPA Method 6010/7471

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**80.5**		9.59	0.0767	mg/kg		01/12/11 14:20	01/14/11 16:08	1.00
Barium	**118**		19.2	0.0805	mg/kg		01/12/11 14:20	01/14/11 16:08	1.00
Cadmium	**0.692**	**J**	3.84	0.0777	mg/kg		01/12/11 14:20	01/14/11 16:08	1.00
Chromium	**56.5**		9.59	0.0700	mg/kg		01/12/11 14:20	01/14/11 16:08	1.00
Lead	**9.69**	**J**	19.2	0.0671	mg/kg		01/12/11 14:20	01/14/11 16:08	1.00
Selenium	**1.66**	**J**	19.2	0.0863	mg/kg		01/12/11 14:20	01/14/11 16:08	1.00
Silver	ND		9.59	0.00671	mg/kg		01/12/11 14:20	01/14/11 16:08	1.00

Method: EPA 7471 - Total Metals by EPA Method 6010/7471

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.847**		0.0709	0.00142	mg/kg dry	☼	01/04/11 10:23	01/04/11 17:17	10.0

Method: SBRC Appendix C Rev. #8 - Bio-available Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic Bio-accessible percent	**8.59**		0.200	0.100	% by Weight		02/04/11 17:36	02/11/11 18:47	1.00

Client Sample ID: DU-12-4

Date Collected: 12/15/10 11:50
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-12

Matrix: Solid/Soil
Percent Solids: 73

Method: EPA 8270 - Semivolatile Organics Compounds by EPA 8270

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	**4.45**	**H1**	1.62	0.411	mg/kg		02/07/11 08:40	02/08/11 16:25	5.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*63*	*H1*	*40 - 120*	*02/07/11 08:40*	*02/08/11 16:25*	*5.00*

Method: EPA 8270C-SIM - POLYNUCLEAR AROMATIC HYDROCARBONS BY GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	RL1	82	5.5	ug/kg dry	☼	12/27/10 06:25	12/31/10 18:56	1.0
Acenaphthene	ND	RL1	82	5.5	ug/kg dry	☼	12/27/10 08:25	12/31/10 20:56	1.0
Acenaphthylene	ND	RL1	82	5.5	ug/kg dry	☼	12/27/10 06:25	12/31/10 18:56	1.0
Acenaphthylene	ND	RL1	82	5.5	ug/kg dry	☼	12/27/10 08:25	12/31/10 20:56	1.0
Anthracene	**21**	**RL1 J**	82	5.5	ug/kg dry	☼	12/27/10 06:25	12/31/10 18:56	1.0
Anthracene	**21**	**RL1 J**	82	5.5	ug/kg dry	☼	12/27/10 08:25	12/31/10 20:56	1.0
Benzo(a)anthracene	ND	RL1	82	5.5	ug/kg dry	☼	12/27/10 06:25	12/31/10 18:56	1.0
Benzo(a)anthracene	ND	RL1	82	5.5	ug/kg dry	☼	12/27/10 08:25	12/31/10 20:56	1.0
Benzo(a)pyrene	ND	RL1	82	5.5	ug/kg dry	☼	12/27/10 06:25	12/31/10 18:56	1.0
Benzo(a)pyrene	ND	RL1	82	5.5	ug/kg dry	☼	12/27/10 08:25	12/31/10 20:56	1.0

Client Sample ID: DU-12-4

Date Collected: 12/15/10 11:50
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-12

Matrix: Solid/Soil
Percent Solids: 72.8

Method: EPA 8270C-SIM - POLYNUCLEAR AROMATIC HYDROCARBONS BY GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo(b)fluoranthene	**7.6**	**RL1 J**	82	5.5	ug/kg dry	☼	12/27/10 06:25	12/31/10 18:56	1.0
Benzo(b)fluoranthene	**7.6**	**RL1 J**	82	5.5	ug/kg dry	☼	12/27/10 08:25	12/31/10 20:56	1.0
Benzo(g,h,i)perylene	**47**	**RL1 J**	82	5.5	ug/kg dry	☼	12/27/10 06:25	12/31/10 18:56	1.0
Benzo(g,h,i)perylene	**47**	**RL1 J**	82	5.5	ug/kg dry	☼	12/27/10 08:25	12/31/10 20:56	1.0
Benzo(k)fluoranthene	ND	RL1	82	5.5	ug/kg dry	☼	12/27/10 06:25	12/31/10 18:56	1.0
Benzo(k)fluoranthene	ND	RL1	82	5.5	ug/kg dry	☼	12/27/10 08:25	12/31/10 20:56	1.0
Chrysene	**7.0**	**RL1 J**	82	5.5	ug/kg dry	☼	12/27/10 06:25	12/31/10 18:56	1.0
Chrysene	**7.0**	**RL1 J**	82	5.5	ug/kg dry	☼	12/27/10 08:25	12/31/10 20:56	1.0
Dibenz(a,h)anthracene	ND	RL1	82	6.9	ug/kg dry	☼	12/27/10 06:25	12/31/10 18:56	1.0
Dibenz(a,h)anthracene	ND	RL1	82	6.9	ug/kg dry	☼	12/27/10 08:25	12/31/10 20:56	1.0
Fluoranthene	ND	RL1	82	5.5	ug/kg dry	☼	12/27/10 06:25	12/31/10 18:56	1.0
Fluoranthene	ND	RL1	82	5.5	ug/kg dry	☼	12/27/10 08:25	12/31/10 20:56	1.0
Fluorene	ND	RL1	82	5.5	ug/kg dry	☼	12/27/10 06:25	12/31/10 18:56	1.0
Fluorene	ND	RL1	82	5.5	ug/kg dry	☼	12/27/10 08:25	12/31/10 20:56	1.0
Indeno(1,2,3-cd)pyrene	**7.9**	**RL1 J**	82	6.9	ug/kg dry	☼	12/27/10 06:25	12/31/10 18:56	1.0
Indeno(1,2,3-cd)pyrene	**7.9**	**RL1 J**	82	6.9	ug/kg dry	☼	12/27/10 08:25	12/31/10 20:56	1.0
Naphthalene	ND	RL1	82	9.6	ug/kg dry	☼	12/27/10 06:25	12/31/10 18:56	1.0
Naphthalene	ND	RL1	82	9.6	ug/kg dry	☼	12/27/10 08:25	12/31/10 20:56	1.0
Phenanthrene	**6.4**	**RL1 J**	82	5.5	ug/kg dry	☼	12/27/10 06:25	12/31/10 18:56	1.0
Phenanthrene	**6.4**	**RL1 J**	82	5.5	ug/kg dry	☼	12/27/10 08:25	12/31/10 20:56	1.0
Pyrene	**6.6**	**RL1 J**	82	5.5	ug/kg dry	☼	12/27/10 06:25	12/31/10 18:56	1.0
Pyrene	**6.6**	**RL1 J**	82	5.5	ug/kg dry	☼	12/27/10 08:25	12/31/10 20:56	1.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*74*	*RL1*	*35 - 120*	*12/27/10 06:25*	*12/31/10 18:56*	*1.0*
2-Fluorobiphenyl	*74*	*RL1*	*35 - 120*	*12/27/10 08:25*	*12/31/10 20:56*	*1.0*
Nitrobenzene-d5	*83*	*RL1*	*30 - 120*	*12/27/10 06:25*	*12/31/10 18:56*	*1.0*
Nitrobenzene-d5	*83*	*RL1*	*30 - 120*	*12/27/10 08:25*	*12/31/10 20:56*	*1.0*
Terphenyl-d14	*94*	*RL1*	*40 - 135*	*12/27/10 06:25*	*12/31/10 18:56*	*1.0*
Terphenyl-d14	*94*	*RL1*	*40 - 135*	*12/27/10 08:25*	*12/31/10 20:56*	*1.0*

Method: EPA 8081A - ORGANOCHLORINE PESTICIDES (EPA 3546/8081A)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 17:26	1.0
4,4'-DDD	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 19:26	1.0
4,4'-DDE	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 17:26	1.0
4,4'-DDE	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 19:26	1.0
4,4'-DDT	**3.3**	**H-1, RL4 J**	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 17:26	1.0
4,4'-DDT	**3.3**	**H-1, RL4 J**	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 19:26	1.0
Aldrin	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 17:26	1.0
Aldrin	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 19:26	1.0
alpha-BHC	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 17:26	1.0
alpha-BHC	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 19:26	1.0
beta-BHC	**7.2**	**H-1, RL4 J**	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 17:26	1.0
beta-BHC	**7.2**	**H-1, RL4 J**	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 19:26	1.0
delta-BHC	ND	H-1, RL4	15	2.2	ug/kg		02/04/11 07:50	02/07/11 17:26	1.0
delta-BHC	ND	H-1, RL4	15	2.2	ug/kg		02/04/11 09:50	02/07/11 19:26	1.0
Dieldrin	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 17:26	1.0
Dieldrin	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 19:26	1.0
Endosulfan I	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 17:26	1.0
Endosulfan I	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 19:26	1.0

Client Sample ID: DU-12-4
Date Collected: 12/15/10 11:50
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-12
Matrix: Solid/Soil
Percent Solids: 72.8

Method: EPA 8081A - ORGANOCHLORINE PESTICIDES (EPA 3546/8081A) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan II	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 17:26	1.0
Endosulfan II	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 19:26	1.0
Endosulfan sulfate	ND	H-1, RL4	15	3.0	ug/kg		02/04/11 07:50	02/07/11 17:26	1.0
Endosulfan sulfate	ND	H-1, RL4	15	3.0	ug/kg		02/04/11 09:50	02/07/11 19:26	1.0
Endrin	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 17:26	1.0
Endrin	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 19:26	1.0
Endrin aldehyde	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 17:26	1.0
Endrin aldehyde	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 19:26	1.0
Endrin ketone	ND	H-1, RL4	7.5	3.0	ug/kg		02/04/11 07:50	02/07/11 17:26	1.0
Endrin ketone	ND	H-1, RL4	7.5	3.0	ug/kg		02/04/11 09:50	02/07/11 19:26	1.0
gamma-BHC (Lindane)	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 17:26	1.0
gamma-BHC (Lindane)	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 19:26	1.0
Heptachlor	ND	H-1, RL4	7.5	3.0	ug/kg		02/04/11 07:50	02/07/11 17:26	1.0
Heptachlor	ND	H-1, RL4	7.5	3.0	ug/kg		02/04/11 09:50	02/07/11 19:26	1.0
Heptachlor epoxide	ND	H-1, RL4	7.5	3.0	ug/kg		02/04/11 07:50	02/07/11 17:26	1.0
Heptachlor epoxide	ND	H-1, RL4	7.5	3.0	ug/kg		02/04/11 09:50	02/07/11 19:26	1.0
Methoxychlor	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 17:26	1.0
Methoxychlor	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 19:26	1.0
Chlordane	ND	H-1, RL4	75	15	ug/kg		02/04/11 07:50	02/07/11 17:26	1.0
Chlordane	ND	H-1, RL4	75	15	ug/kg		02/04/11 09:50	02/07/11 19:26	1.0
Toxaphene	ND	H-1, RL4	300	75	ug/kg		02/04/11 07:50	02/07/11 17:26	1.0
Toxaphene	ND	H-1, RL4	300	75	ug/kg		02/04/11 09:50	02/07/11 19:26	1.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*62*	*H-1, RL4*	*45 - 120*	*02/04/11 07:50*	*02/07/11 17:26*	*1.0*
Decachlorobiphenyl	*62*	*H-1, RL4*	*45 - 120*	*02/04/11 09:50*	*02/07/11 19:26*	*1.0*
Tetrachloro-m-xylene	*69*	*H-1, RL4*	*35 - 115*	*02/04/11 07:50*	*02/07/11 17:26*	*1.0*
Tetrachloro-m-xylene	*69*	*H-1, RL4*	*35 - 115*	*02/04/11 09:50*	*02/07/11 19:26*	*1.0*

Method: 8290 - Dioxins/Furans, HRGC/HRMS (8290)

Analyte	Result	Qualifier	RL	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		48	5.8	1		pg/g		01/05/11 18:00	01/11/11 04:40	47.61
Total TCDD	ND		48	5.8			pg/g		01/05/11 18:00	01/11/11 04:40	47.61
1,2,3,7,8-PeCDD	ND		240	5.6	0.5		pg/g		01/05/11 18:00	01/11/11 04:40	47.61
Total PeCDD	ND		240	11			pg/g		01/05/11 18:00	01/11/11 04:40	47.61
1,2,3,4,7,8-HxCDD	ND		240	27	0.1		pg/g		01/05/11 18:00	01/11/11 04:40	47.61
1,2,3,6,7,8-HxCDD	**240**		240	5.1	0.1	24	pg/g		01/05/11 18:00	01/11/11 04:40	47.61
1,2,3,7,8,9-HxCDD	ND		240	56	0.1		pg/g		01/05/11 18:00	01/11/11 04:40	47.61
Total HxCDD	**1100**		240	5.2			pg/g		01/05/11 18:00	01/11/11 04:40	47.61
1,2,3,4,6,7,8-HpCDD	**7900**		240	35	0.01	79	pg/g		01/05/11 18:00	01/11/11 04:40	47.61
Total HpCDD	**19000**		240	35			pg/g		01/05/11 18:00	01/11/11 04:40	47.61
OCDD	**300000**	**E**	480	290	0.001	300	pg/g		01/05/11 18:00	01/11/11 04:40	47.61
2,3,7,8-TCDF	ND		48	1.7	0.1		pg/g		01/05/11 18:00	01/11/11 04:40	47.61
Total TCDF	ND		48	16			pg/g		01/05/11 18:00	01/11/11 04:40	47.61
1,2,3,7,8-PeCDF	ND		240	3.1	0.05		pg/g		01/05/11 18:00	01/11/11 04:40	47.61
2,3,4,7,8-PeCDF	ND		240	4.1	0.5		pg/g		01/05/11 18:00	01/11/11 04:40	47.61
Total PeCDF	ND		240	82			pg/g		01/05/11 18:00	01/11/11 04:40	47.61
1,2,3,4,7,8-HxCDF	ND		240	65	0.1		pg/g		01/05/11 18:00	01/11/11 04:40	47.61
1,2,3,6,7,8-HxCDF	ND		240	23	0.1		pg/g		01/05/11 18:00	01/11/11 04:40	47.61
2,3,4,6,7,8-HxCDF	ND		240	12	0.1		pg/g		01/05/11 18:00	01/11/11 04:40	47.61
1,2,3,7,8,9-HxCDF	ND		240	4.8	0.1		pg/g		01/05/11 18:00	01/11/11 04:40	47.61

Client Sample ID: DU-12-4

Date Collected: 12/15/10 11:50
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-12

Matrix: Solid/Soil

Method: 8290 - Dioxins/Furans, HRGC/HRMS (8290) (Continued)

Analyte	Result	Qualifier	RL	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
Total HxCDF	2500		240	4.4			pg/g		01/05/11 18:00	01/11/11 04:40	47.61
1,2,3,4,6,7,8-HpCDF	2100		240	9.8	0.01	21	pg/g		01/05/11 18:00	01/11/11 04:40	47.61
1,2,3,4,7,8,9-HpCDF	ND		240	170	0.01		pg/g		01/05/11 18:00	01/11/11 04:40	47.61
Total HpCDF	10000		240	11			pg/g		01/05/11 18:00	01/11/11 04:40	47.61
OCDF	5900		480	23	0.001	5.9	pg/g		01/05/11 18:00	01/11/11 04:40	47.61
Total TEQ						**430**					

Internal Standard	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*101*		*40 - 135*	*01/05/11 18:00*	*01/11/11 04:40*	*47.61*
13C-1,2,3,7,8-PeCDD	*109*		*40 - 135*	*01/05/11 18:00*	*01/11/11 04:40*	*47.61*
13C-1,2,3,6,7,8-HxCDD	*109*		*40 - 135*	*01/05/11 18:00*	*01/11/11 04:40*	*47.61*
13C-1,2,3,4,6,7,8-HpCDD	*94*		*40 - 135*	*01/05/11 18:00*	*01/11/11 04:40*	*47.61*
13C-OCDD	*81*		*40 - 135*	*01/05/11 18:00*	*01/11/11 04:40*	*47.61*
13C-2,3,7,8-TCDF	*100*		*40 - 135*	*01/05/11 18:00*	*01/11/11 04:40*	*47.61*
13C-1,2,3,7,8-PeCDF	*116*		*40 - 135*	*01/05/11 18:00*	*01/11/11 04:40*	*47.61*
13C-1,2,3,4,7,8-HxCDF	*99*		*40 - 135*	*01/05/11 18:00*	*01/11/11 04:40*	*47.61*
13C-1,2,3,4,6,7,8-HpCDF	*91*		*40 - 135*	*01/05/11 18:00*	*01/11/11 04:40*	*47.61*

Method: EPA 6010 - Bio-available Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic Bio-accessible	3.60		1.00	0.0800	mg/kg		02/04/11 17:36	02/11/11 18:47	1.00
Arsenic Total	66.6		0.943	0.0755	mg/kg		02/04/11 10:30	02/04/11 15:52	1.00

Method: EPA 6010 - Total Metals by EPA Method 6010/7471

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	35.6		10.1	0.0805	mg/kg		01/12/11 14:20	01/14/11 16:13	1.00
Barium	79.4		20.1	0.0845	mg/kg		01/12/11 14:20	01/14/11 16:13	1.00
Cadmium	1.02	J	4.02	0.0815	mg/kg		01/12/11 14:20	01/14/11 16:13	1.00
Chromium	69.9		10.1	0.0734	mg/kg		01/12/11 14:20	01/14/11 16:13	1.00
Lead	11.5	J	20.1	0.0704	mg/kg		01/12/11 14:20	01/14/11 16:13	1.00
Selenium	1.60	J	20.1	0.0905	mg/kg		01/12/11 14:20	01/14/11 16:13	1.00
Silver	ND		10.1	0.00704	mg/kg		01/12/11 14:20	01/14/11 16:13	1.00

Method: EPA 7471 - Total Metals by EPA Method 6010/7471

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.783		0.0673	0.00135	mg/kg dry	☼	01/04/11 10:23	01/04/11 17:18	10.0

Method: SBRC Appendix C Rev. #8 - Bio-available Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic Bio-accessible percent	5.41		0.200	0.100	% by Weight		02/04/11 17:36	02/11/11 18:47	1.00

Client Sample ID: EQ-3

Date Collected: 12/14/10 12:05
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-13

Matrix: Water - NonPotable

Method: EPA 8270 SIM - PAH Compounds by EPA Method 8270 SIM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	0.0585	J	0.206	0.0351	ug/L		12/21/10 10:45	01/06/11 00:52	1.00
2-Methylnaphthalene	ND		0.206	0.0722	ug/L		12/21/10 10:45	01/06/11 00:52	1.00
Acenaphthene	ND		0.206	0.0255	ug/L		12/21/10 10:45	01/06/11 00:52	1.00
Acenaphthylene	ND		0.206	0.0224	ug/L		12/21/10 10:45	01/06/11 00:52	1.00

Client Sample ID: EQ-3

Date Collected: 12/14/10 12:05
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-13

Matrix: Water - NonPotable

Method: EPA 8270 SIM - PAH Compounds by EPA Method 8270 SIM (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		0.206	0.0282	ug/L		12/21/10 10:45	01/06/11 00:52	1.00
Benzo (a) anthracene	ND		0.206	0.0324	ug/L		12/21/10 10:45	01/06/11 00:52	1.00
Benzo (a) pyrene	ND		0.103	0.0409	ug/L		12/21/10 10:45	01/06/11 00:52	1.00
Benzo (b) fluoranthene	ND		0.206	0.0317	ug/L		12/21/10 10:45	01/06/11 00:52	1.00
Benzo (g,h,i) perylene	ND		0.206	0.0556	ug/L		12/21/10 10:45	01/06/11 00:52	1.00
Benzo (k) fluoranthene	ND		0.206	0.0795	ug/L		12/21/10 10:45	01/06/11 00:52	1.00
Chrysene	ND		0.206	0.0350	ug/L		12/21/10 10:45	01/06/11 00:52	1.00
Dibenzo (a,h) anthracene	ND		0.206	0.0874	ug/L		12/21/10 10:45	01/06/11 00:52	1.00
Fluoranthene	**0.0589**	**J**	0.206	0.0349	ug/L		12/21/10 10:45	01/06/11 00:52	1.00
Fluorene	ND		0.206	0.0231	ug/L		12/21/10 10:45	01/06/11 00:52	1.00
Indeno (1,2,3-cd) pyrene	ND		0.206	0.0507	ug/L		12/21/10 10:45	01/06/11 00:52	1.00
Naphthalene	ND		0.206	0.0420	ug/L		12/21/10 10:45	01/06/11 00:52	1.00
Phenanthrene	ND		0.206	0.0202	ug/L		12/21/10 10:45	01/06/11 00:52	1.00
Pyrene	ND		0.206	0.0367	ug/L		12/21/10 10:45	01/06/11 00:52	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*101*		*50 - 120*	*12/21/10 10:45*	*01/06/11 00:52*	*1.00*
Nitrobenzene-d5	*110*		*50 - 120*	*12/21/10 10:45*	*01/06/11 00:52*	*1.00*
Terphenyl-d14	*94*		*50 - 120*	*12/21/10 10:45*	*01/06/11 00:52*	*1.00*

Method: EPA 8081A - ORGANOCHLORINE PESTICIDES (EPA 3510C/8081A)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	H3 C-1	0.10	0.030	ug/l		12/29/10 05:34	12/29/10 19:17	1.0
4,4'-DDD	ND	H3 C-1	0.10	0.030	ug/l		12/29/10 07:34	12/29/10 21:17	1.0
4,4'-DDE	ND	H3	0.10	0.030	ug/l		12/29/10 05:34	12/29/10 19:17	1.0
4,4'-DDE	ND	H3	0.10	0.030	ug/l		12/29/10 07:34	12/29/10 21:17	1.0
4,4'-DDT	ND	H3	0.10	0.030	ug/l		12/29/10 05:34	12/29/10 19:17	1.0
4,4'-DDT	ND	H3	0.10	0.030	ug/l		12/29/10 07:34	12/29/10 21:17	1.0
Aldrin	ND	H3	0.10	0.030	ug/l		12/29/10 05:34	12/29/10 19:17	1.0
Aldrin	ND	H3	0.10	0.030	ug/l		12/29/10 07:34	12/29/10 21:17	1.0
alpha-BHC	ND	H3	0.10	0.020	ug/l		12/29/10 05:34	12/29/10 19:17	1.0
alpha-BHC	ND	H3	0.10	0.020	ug/l		12/29/10 07:34	12/29/10 21:17	1.0
beta-BHC	ND	H3	0.10	0.040	ug/l		12/29/10 05:34	12/29/10 19:17	1.0
beta-BHC	ND	H3	0.10	0.040	ug/l		12/29/10 07:34	12/29/10 21:17	1.0
delta-BHC	ND	H3 C-1d	0.20	0.020	ug/l		12/29/10 05:34	12/29/10 19:17	1.0
delta-BHC	ND	H3 C-1d	0.20	0.020	ug/l		12/29/10 07:34	12/29/10 21:17	1.0
Dieldrin	ND	H3	0.10	0.030	ug/l		12/29/10 05:34	12/29/10 19:17	1.0
Dieldrin	ND	H3	0.10	0.030	ug/l		12/29/10 07:34	12/29/10 21:17	1.0
Endosulfan I	ND	H3	0.10	0.030	ug/l		12/29/10 05:34	12/29/10 19:17	1.0
Endosulfan I	ND	H3	0.10	0.030	ug/l		12/29/10 07:34	12/29/10 21:17	1.0
Endosulfan II	ND	H3	0.10	0.040	ug/l		12/29/10 05:34	12/29/10 19:17	1.0
Endosulfan II	ND	H3	0.10	0.040	ug/l		12/29/10 07:34	12/29/10 21:17	1.0
Endosulfan sulfate	ND	H3	0.20	0.050	ug/l		12/29/10 05:34	12/29/10 19:17	1.0
Endosulfan sulfate	ND	H3	0.20	0.050	ug/l		12/29/10 07:34	12/29/10 21:17	1.0
Endrin	ND	H3	0.10	0.030	ug/l		12/29/10 05:34	12/29/10 19:17	1.0
Endrin	ND	H3	0.10	0.030	ug/l		12/29/10 07:34	12/29/10 21:17	1.0
Endrin aldehyde	ND	H3	0.10	0.050	ug/l		12/29/10 05:34	12/29/10 19:17	1.0
Endrin aldehyde	ND	H3	0.10	0.050	ug/l		12/29/10 07:34	12/29/10 21:17	1.0
Endrin ketone	ND	H3	0.10	0.040	ug/l		12/29/10 05:34	12/29/10 19:17	1.0
Endrin ketone	ND	H3	0.10	0.040	ug/l		12/29/10 07:34	12/29/10 21:17	1.0
gamma-BHC (Lindane)	ND	H3 C-1b	0.10	0.030	ug/l		12/29/10 05:34	12/29/10 19:17	1.0

Client Sample ID: EQ-3

Date Collected: 12/14/10 12:05
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-13

Matrix: Water - NonPotable

Method: EPA 8081A - ORGANOCHLORINE PESTICIDES (EPA 3510C/8081A) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	ND	H3 C-1b	0.10	0.030	ug/l		12/29/10 07:34	12/29/10 21:17	1.0
Heptachlor	ND	H3 C-1c	0.10	0.030	ug/l		12/29/10 05:34	12/29/10 19:17	1.0
Heptachlor	ND	H3 C-1c	0.10	0.030	ug/l		12/29/10 07:34	12/29/10 21:17	1.0
Heptachlor epoxide	ND	H3	0.10	0.030	ug/l		12/29/10 05:34	12/29/10 19:17	1.0
Heptachlor epoxide	ND	H3	0.10	0.030	ug/l		12/29/10 07:34	12/29/10 21:17	1.0
Methoxychlor	ND	H3 C-1c	0.10	0.040	ug/l		12/29/10 05:34	12/29/10 19:17	1.0
Methoxychlor	ND	H3 C-1c	0.10	0.040	ug/l		12/29/10 07:34	12/29/10 21:17	1.0
Chlordane	ND	H3	1.0	0.30	ug/l		12/29/10 05:34	12/29/10 19:17	1.0
Chlordane	ND	H3	1.0	0.30	ug/l		12/29/10 07:34	12/29/10 21:17	1.0
Toxaphene	ND	H3	5.0	0.80	ug/l		12/29/10 05:34	12/29/10 19:17	1.0
Toxaphene	ND	H3	5.0	0.80	ug/l		12/29/10 07:34	12/29/10 21:17	1.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*98*	*H3*	*45 - 120*	*12/29/10 05:34*	*12/29/10 19:17*	*1.0*
Decachlorobiphenyl	*98*	*H3*	*45 - 120*	*12/29/10 07:34*	*12/29/10 21:17*	*1.0*
Tetrachloro-m-xylene	*60*	*H3*	*35 - 115*	*12/29/10 05:34*	*12/29/10 19:17*	*1.0*
Tetrachloro-m-xylene	*60*	*H3*	*35 - 115*	*12/29/10 07:34*	*12/29/10 21:17*	*1.0*

Method: EPA 6010B - METALS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10	7.0	ug/l		12/29/10 06:55	01/05/11 06:43	1.0
Arsenic	ND		10	7.0	ug/l		12/29/10 08:55	01/05/11 08:43	1.0
Barium	ND		10	6.0	ug/l		12/29/10 06:55	01/05/11 06:43	1.0
Barium	ND		10	6.0	ug/l		12/29/10 08:55	01/05/11 08:43	1.0
Cadmium	ND		5.0	2.0	ug/l		12/29/10 06:55	01/05/11 06:43	1.0
Cadmium	ND		5.0	2.0	ug/l		12/29/10 08:55	01/05/11 08:43	1.0
Chromium	ND		5.0	2.0	ug/l		12/29/10 06:55	01/05/11 06:43	1.0
Chromium	ND		5.0	2.0	ug/l		12/29/10 08:55	01/05/11 08:43	1.0
Lead	ND		5.0	4.0	ug/l		12/29/10 06:55	01/05/11 06:43	1.0
Lead	ND		5.0	4.0	ug/l		12/29/10 08:55	01/05/11 08:43	1.0
Selenium	ND		10	8.0	ug/l		12/29/10 06:55	01/05/11 06:43	1.0
Selenium	ND		10	8.0	ug/l		12/29/10 08:55	01/05/11 08:43	1.0
Silver	ND		10	6.0	ug/l		12/29/10 06:55	01/05/11 06:43	1.0
Silver	ND		10	6.0	ug/l		12/29/10 08:55	01/05/11 08:43	1.0

Method: EPA 7470A - METALS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/l		12/30/10 10:44	12/30/10 16:34	1.0
Mercury	ND		0.20	0.10	ug/l		12/30/10 12:44	12/30/10 18:34	1.0

Client Sample ID: DU-11

Date Collected: 12/15/10 15:05
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-14

Matrix: Solid/Soil
Percent Solids: 70

Method: EPA 8270 - Semivolatile Organics Compounds by EPA 8270

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	**0.224**	**H1 J**	0.306	0.0776	mg/kg		02/07/11 08:40	02/08/11 03:24	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*82*	*H1*	*40 - 120*	*02/07/11 08:40*	*02/08/11 03:24*	*1.00*

Client Sample ID: DU-11

Date Collected: 12/15/10 15:05
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-14

Matrix: Solid/Soil
Percent Solids: 70.2

Method: EPA 8270C-SIM - POLYNUCLEAR AROMATIC HYDROCARBONS BY GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		43	2.8	ug/kg dry	☼	12/27/10 06:25	12/31/10 19:21	1.0
Acenaphthene	ND		43	2.8	ug/kg dry	☼	12/27/10 08:25	12/31/10 21:21	1.0
Acenaphthylene	ND		43	2.8	ug/kg dry	☼	12/27/10 06:25	12/31/10 19:21	1.0
Acenaphthylene	ND		43	2.8	ug/kg dry	☼	12/27/10 08:25	12/31/10 21:21	1.0
Anthracene	**4.7**	**J**	43	2.8	ug/kg dry	☼	12/27/10 06:25	12/31/10 19:21	1.0
Anthracene	**4.7**	**J**	43	2.8	ug/kg dry	☼	12/27/10 08:25	12/31/10 21:21	1.0
Benzo(a)anthracene	**13**	**J**	43	2.8	ug/kg dry	☼	12/27/10 06:25	12/31/10 19:21	1.0
Benzo(a)anthracene	**13**	**J**	43	2.8	ug/kg dry	☼	12/27/10 08:25	12/31/10 21:21	1.0
Benzo(a)pyrene	**15**	**J**	43	2.8	ug/kg dry	☼	12/27/10 06:25	12/31/10 19:21	1.0
Benzo(a)pyrene	**15**	**J**	43	2.8	ug/kg dry	☼	12/27/10 08:25	12/31/10 21:21	1.0
Benzo(b)fluoranthene	**27**	**J**	43	2.8	ug/kg dry	☼	12/27/10 06:25	12/31/10 19:21	1.0
Benzo(b)fluoranthene	**27**	**J**	43	2.8	ug/kg dry	☼	12/27/10 08:25	12/31/10 21:21	1.0
Benzo(g,h,i)perylene	**14**	**J**	43	2.8	ug/kg dry	☼	12/27/10 06:25	12/31/10 19:21	1.0
Benzo(g,h,i)perylene	**14**	**J**	43	2.8	ug/kg dry	☼	12/27/10 08:25	12/31/10 21:21	1.0
Benzo(k)fluoranthene	**9.6**	**J**	43	2.8	ug/kg dry	☼	12/27/10 06:25	12/31/10 19:21	1.0
Benzo(k)fluoranthene	**9.6**	**J**	43	2.8	ug/kg dry	☼	12/27/10 08:25	12/31/10 21:21	1.0
Chrysene	**20**	**J**	43	2.8	ug/kg dry	☼	12/27/10 06:25	12/31/10 19:21	1.0
Chrysene	**20**	**J**	43	2.8	ug/kg dry	☼	12/27/10 08:25	12/31/10 21:21	1.0
Dibenz(a,h)anthracene	ND		43	3.6	ug/kg dry	☼	12/27/10 06:25	12/31/10 19:21	1.0
Dibenz(a,h)anthracene	ND		43	3.6	ug/kg dry	☼	12/27/10 08:25	12/31/10 21:21	1.0
Fluoranthene	**31**	**J**	43	2.8	ug/kg dry	☼	12/27/10 06:25	12/31/10 19:21	1.0
Fluoranthene	**31**	**J**	43	2.8	ug/kg dry	☼	12/27/10 08:25	12/31/10 21:21	1.0
Fluorene	ND		43	2.8	ug/kg dry	☼	12/27/10 06:25	12/31/10 19:21	1.0
Fluorene	ND		43	2.8	ug/kg dry	☼	12/27/10 08:25	12/31/10 21:21	1.0
Indeno(1,2,3-cd)pyrene	**10**	**J**	43	3.6	ug/kg dry	☼	12/27/10 06:25	12/31/10 19:21	1.0
Indeno(1,2,3-cd)pyrene	**10**	**J**	43	3.6	ug/kg dry	☼	12/27/10 08:25	12/31/10 21:21	1.0
Naphthalene	ND		43	5.0	ug/kg dry	☼	12/27/10 06:25	12/31/10 19:21	1.0
Naphthalene	ND		43	5.0	ug/kg dry	☼	12/27/10 08:25	12/31/10 21:21	1.0
Phenanthrene	**24**	**J**	43	2.8	ug/kg dry	☼	12/27/10 06:25	12/31/10 19:21	1.0
Phenanthrene	**24**	**J**	43	2.8	ug/kg dry	☼	12/27/10 08:25	12/31/10 21:21	1.0
Pyrene	**30**	**J**	43	2.8	ug/kg dry	☼	12/27/10 06:25	12/31/10 19:21	1.0
Pyrene	**30**	**J**	43	2.8	ug/kg dry	☼	12/27/10 08:25	12/31/10 21:21	1.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*80*		*35 - 120*	*12/27/10 06:25*	*12/31/10 19:21*	*1.0*
2-Fluorobiphenyl	*80*		*35 - 120*	*12/27/10 08:25*	*12/31/10 21:21*	*1.0*
Nitrobenzene-d5	*81*		*30 - 120*	*12/27/10 06:25*	*12/31/10 19:21*	*1.0*
Nitrobenzene-d5	*81*		*30 - 120*	*12/27/10 08:25*	*12/31/10 21:21*	*1.0*
Terphenyl-d14	*98*		*40 - 135*	*12/27/10 06:25*	*12/31/10 19:21*	*1.0*
Terphenyl-d14	*98*		*40 - 135*	*12/27/10 08:25*	*12/31/10 21:21*	*1.0*

Method: EPA 8081A - ORGANOCHLORINE PESTICIDES (EPA 3546/8081A)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	H-1 C-1e	5.0	1.5	ug/kg		02/25/11 12:58	02/28/11 02:54	1.0
4,4'-DDD	ND	H-1 C-1e	5.0	1.5	ug/kg		02/25/11 14:58	02/28/11 04:54	1.0
4,4'-DDE	ND	H-1	5.0	1.5	ug/kg		02/25/11 12:58	02/28/11 02:54	1.0
4,4'-DDE	ND	H-1	5.0	1.5	ug/kg		02/25/11 14:58	02/28/11 04:54	1.0
4,4'-DDT	ND	H-1 C-2	5.0	1.5	ug/kg		02/25/11 12:58	02/28/11 02:54	1.0
4,4'-DDT	ND	H-1 C-2	5.0	1.5	ug/kg		02/25/11 14:58	02/28/11 04:54	1.0
Aldrin	ND	H-1	5.0	1.5	ug/kg		02/25/11 12:58	02/28/11 02:54	1.0
Aldrin	ND	H-1	5.0	1.5	ug/kg		02/25/11 14:58	02/28/11 04:54	1.0

Client Sample ID: DU-11

Date Collected: 12/15/10 15:05
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-14

Matrix: Solid/Soil
Percent Solids: 70.2

Method: EPA 8081A - ORGANOCHLORINE PESTICIDES (EPA 3546/8081A) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	ND	H-1	5.0	1.5	ug/kg		02/25/11 12:58	02/28/11 02:54	1.0
alpha-BHC	ND	H-1	5.0	1.5	ug/kg		02/25/11 14:58	02/28/11 04:54	1.0
beta-BHC	ND	H-1	5.0	1.5	ug/kg		02/25/11 12:58	02/28/11 02:54	1.0
beta-BHC	ND	H-1	5.0	1.5	ug/kg		02/25/11 14:58	02/28/11 04:54	1.0
delta-BHC	ND	H-1	10	1.5	ug/kg		02/25/11 12:58	02/28/11 02:54	1.0
delta-BHC	ND	H-1	10	1.5	ug/kg		02/25/11 14:58	02/28/11 04:54	1.0
Dieldrin	ND	H-1	5.0	1.5	ug/kg		02/25/11 12:58	02/28/11 02:54	1.0
Dieldrin	ND	H-1	5.0	1.5	ug/kg		02/25/11 14:58	02/28/11 04:54	1.0
Endosulfan I	ND	H-1	5.0	1.5	ug/kg		02/25/11 12:58	02/28/11 02:54	1.0
Endosulfan I	ND	H-1	5.0	1.5	ug/kg		02/25/11 14:58	02/28/11 04:54	1.0
Endosulfan II	ND	H-1	5.0	1.5	ug/kg		02/25/11 12:58	02/28/11 02:54	1.0
Endosulfan II	ND	H-1	5.0	1.5	ug/kg		02/25/11 14:58	02/28/11 04:54	1.0
Endosulfan sulfate	ND	H-1	10	2.0	ug/kg		02/25/11 12:58	02/28/11 02:54	1.0
Endosulfan sulfate	ND	H-1	10	2.0	ug/kg		02/25/11 14:58	02/28/11 04:54	1.0
Endrin	ND	H-1	5.0	1.5	ug/kg		02/25/11 12:58	02/28/11 02:54	1.0
Endrin	ND	H-1	5.0	1.5	ug/kg		02/25/11 14:58	02/28/11 04:54	1.0
Endrin aldehyde	ND	H-1	5.0	1.5	ug/kg		02/25/11 12:58	02/28/11 02:54	1.0
Endrin aldehyde	ND	H-1	5.0	1.5	ug/kg		02/25/11 14:58	02/28/11 04:54	1.0
Endrin ketone	ND	H-1	5.0	2.0	ug/kg		02/25/11 12:58	02/28/11 02:54	1.0
Endrin ketone	ND	H-1	5.0	2.0	ug/kg		02/25/11 14:58	02/28/11 04:54	1.0
gamma-BHC (Lindane)	ND	H-1	5.0	1.5	ug/kg		02/25/11 12:58	02/28/11 02:54	1.0
gamma-BHC (Lindane)	ND	H-1	5.0	1.5	ug/kg		02/25/11 14:58	02/28/11 04:54	1.0
Heptachlor	ND	H-1	5.0	2.0	ug/kg		02/25/11 12:58	02/28/11 02:54	1.0
Heptachlor	ND	H-1	5.0	2.0	ug/kg		02/25/11 14:58	02/28/11 04:54	1.0
Heptachlor epoxide	ND	H-1	5.0	2.0	ug/kg		02/25/11 12:58	02/28/11 02:54	1.0
Heptachlor epoxide	ND	H-1	5.0	2.0	ug/kg		02/25/11 14:58	02/28/11 04:54	1.0
Methoxychlor	ND	H-1 C-2a	5.0	1.5	ug/kg		02/25/11 12:58	02/28/11 02:54	1.0
Methoxychlor	ND	H-1 C-2a	5.0	1.5	ug/kg		02/25/11 14:58	02/28/11 04:54	1.0
Chlordane	ND	H-1	50	10	ug/kg		02/25/11 12:58	02/28/11 02:54	1.0
Chlordane	ND	H-1	50	10	ug/kg		02/25/11 14:58	02/28/11 04:54	1.0
Toxaphene	ND	H-1	200	50	ug/kg		02/25/11 12:58	02/28/11 02:54	1.0
Toxaphene	ND	H-1	200	50	ug/kg		02/25/11 14:58	02/28/11 04:54	1.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*84*	*H-1*	*45 - 120*	*02/25/11 12:58*	*02/28/11 02:54*	*1.0*
Decachlorobiphenyl	*84*	*H-1*	*45 - 120*	*02/25/11 14:58*	*02/28/11 04:54*	*1.0*
Tetrachloro-m-xylene	*76*	*H-1*	*35 - 115*	*02/25/11 12:58*	*02/28/11 02:54*	*1.0*
Tetrachloro-m-xylene	*76*	*H-1*	*35 - 115*	*02/25/11 14:58*	*02/28/11 04:54*	*1.0*

Method: 8290 - Dioxins/Furans, HRGC/HRMS (8290)

Analyte	Result	Qualifier	RL	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	**5.5**		2.0	0.23	1	5.5	pg/g		01/05/11 18:00	01/11/11 05:25	1.96
Total TCDD	**17**		2.0	0.23			pg/g		01/05/11 18:00	01/11/11 05:25	1.96
1,2,3,7,8-PeCDD	ND		9.8	5.6	0.5		pg/g		01/05/11 18:00	01/11/11 05:25	1.96
Total PeCDD	ND		9.8	6.5			pg/g		01/05/11 18:00	01/11/11 05:25	1.96
1,2,3,4,7,8-HxCDD	**14**		9.8	0.43	0.1	1.4	pg/g		01/05/11 18:00	01/11/11 05:25	1.96
1,2,3,6,7,8-HxCDD	**67**		9.8	0.38	0.1	6.7	pg/g		01/05/11 18:00	01/11/11 05:25	1.96
1,2,3,7,8,9-HxCDD	**28**		9.8	0.38	0.1	2.8	pg/g		01/05/11 18:00	01/11/11 05:25	1.96
Total HxCDD	**360**		9.8	0.40			pg/g		01/05/11 18:00	01/11/11 05:25	1.96
1,2,3,4,6,7,8-HpCDD	**2500**		9.8	3.1	0.01	25	pg/g		01/05/11 18:00	01/11/11 05:25	1.96
Total HpCDD	**5600**		9.8	3.1			pg/g		01/05/11 18:00	01/11/11 05:25	1.96

Client Sample ID: DU-11

Date Collected: 12/15/10 15:05
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-14
Matrix: Solid/Soil

Method: 8290 - Dioxins/Furans, HRGC/HRMS (8290) (Continued)

Analyte	Result	Qualifier	RL	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
OCDD	**27000**	**E G**	24	24	0.001	27	pg/g		01/05/11 18:00	01/11/11 05:25	1.96
2,3,7,8-TCDF	ND		2.0	1.9	0.1		pg/g		01/05/11 18:00	01/11/11 05:25	1.96
Total TCDF	**5.8**		2.0	0.19			pg/g		01/05/11 18:00	01/11/11 05:25	1.96
1,2,3,7,8-PeCDF	ND		9.8	0.92	0.05		pg/g		01/05/11 18:00	01/11/11 05:25	1.96
2,3,4,7,8-PeCDF	ND		9.8	1.2	0.5		pg/g		01/05/11 18:00	01/11/11 05:25	1.96
Total PeCDF	**19**		9.8	0.33			pg/g		01/05/11 18:00	01/11/11 05:25	1.96
1,2,3,4,7,8-HxCDF	**15**		9.8	0.42	0.1	1.5	pg/g		01/05/11 18:00	01/11/11 05:25	1.96
1,2,3,6,7,8-HxCDF	ND		9.8	7.7	0.1		pg/g		01/05/11 18:00	01/11/11 05:25	1.96
2,3,4,6,7,8-HxCDF	ND		9.8	7.5	0.1		pg/g		01/05/11 18:00	01/11/11 05:25	1.96
1,2,3,7,8,9-HxCDF	ND		9.8	0.46	0.1		pg/g		01/05/11 18:00	01/11/11 05:25	1.96
Total HxCDF	**590**		9.8	0.42			pg/g		01/05/11 18:00	01/11/11 05:25	1.96
1,2,3,4,6,7,8-HpCDF	**690**		9.8	1.4	0.01	6.9	pg/g		01/05/11 18:00	01/11/11 05:25	1.96
1,2,3,4,7,8,9-HpCDF	**37**		9.8	1.8	0.01	0.37	pg/g		01/05/11 18:00	01/11/11 05:25	1.96
Total HpCDF	**2800**		9.8	1.6			pg/g		01/05/11 18:00	01/11/11 05:25	1.96
OCDF	**2000**		20	1.4	0.001	2.0	pg/g		01/05/11 18:00	01/11/11 05:25	1.96
Total TEQ						**79**					

Internal Standard	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*90*		*40 - 135*	*01/05/11 18:00*	*01/11/11 05:25*	*1.96*
13C-1,2,3,7,8-PeCDD	*85*		*40 - 135*	*01/05/11 18:00*	*01/11/11 05:25*	*1.96*
13C-1,2,3,6,7,8-HxCDD	*92*		*40 - 135*	*01/05/11 18:00*	*01/11/11 05:25*	*1.96*
13C-1,2,3,4,6,7,8-HpCDD	*98*		*40 - 135*	*01/05/11 18:00*	*01/11/11 05:25*	*1.96*
13C-OCDD	*100*		*40 - 135*	*01/05/11 18:00*	*01/11/11 05:25*	*1.96*
13C-2,3,7,8-TCDF	*89*		*40 - 135*	*01/05/11 18:00*	*01/11/11 05:25*	*1.96*
13C-1,2,3,7,8-PeCDF	*96*		*40 - 135*	*01/05/11 18:00*	*01/11/11 05:25*	*1.96*
13C-1,2,3,4,7,8-HxCDF	*87*		*40 - 135*	*01/05/11 18:00*	*01/11/11 05:25*	*1.96*
13C-1,2,3,4,6,7,8-HpCDF	*89*		*40 - 135*	*01/05/11 18:00*	*01/11/11 05:25*	*1.96*

Method: EPA 6010 - Total Metals by EPA Method 6010/7471

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**15.2**		9.87	0.0790	mg/kg		01/12/11 14:20	01/14/11 16:18	1.00
Barium	**76.2**		19.7	0.0829	mg/kg		01/12/11 14:20	01/14/11 16:18	1.00
Cadmium	**0.218**	**J**	3.95	0.0800	mg/kg		01/12/11 14:20	01/14/11 16:18	1.00
Chromium	**72.5**		9.87	0.0721	mg/kg		01/12/11 14:20	01/14/11 16:18	1.00
Lead	**18.4**	**J**	19.7	0.0691	mg/kg		01/12/11 14:20	01/14/11 16:18	1.00
Selenium	**1.74**	**J**	19.7	0.0888	mg/kg		01/12/11 14:20	01/14/11 16:18	1.00
Silver	ND		9.87	0.00691	mg/kg		01/12/11 14:20	01/14/11 16:18	1.00

Method: EPA 7471 - Total Metals by EPA Method 6010/7471

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.419**		0.0695	0.00139	mg/kg dry	☼	01/04/11 10:23	01/04/11 17:20	10.0

Client Sample ID: DU-20

Date Collected: 12/15/10 16:10
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-15
Matrix: Solid/Soil
Percent Solids: 74

Method: EPA 8270 - Semivolatile Organics Compounds by EPA 8270

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	**0.211**	**H1 J**	0.297	0.0755	mg/kg		02/07/11 08:40	02/08/11 04:03	1.00

Client Sample ID: DU-20
Date Collected: 12/15/10 16:10
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-15
Matrix: Solid/Soil
Percent Solids: 74

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	89	H1	40 - 120	02/07/11 08:40	02/08/11 04:03	1.00

Method: EPA 8270C-SIM - POLYNUCLEAR AROMATIC HYDROCARBONS BY GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		41	2.7	ug/kg dry	☼	12/27/10 06:25	12/31/10 19:46	1.0
Acenaphthene	ND		41	2.7	ug/kg dry	☼	12/27/10 08:25	12/31/10 21:46	1.0
Acenaphthylene	**2.9**	**J**	41	2.7	ug/kg dry	☼	12/27/10 06:25	12/31/10 19:46	1.0
Acenaphthylene	**2.9**	**J**	41	2.7	ug/kg dry	☼	12/27/10 08:25	12/31/10 21:46	1.0
Anthracene	**2.8**	**J**	41	2.7	ug/kg dry	☼	12/27/10 06:25	12/31/10 19:46	1.0
Anthracene	**2.8**	**J**	41	2.7	ug/kg dry	☼	12/27/10 08:25	12/31/10 21:46	1.0
Benzo(a)anthracene	**9.2**	**J**	41	2.7	ug/kg dry	☼	12/27/10 06:25	12/31/10 19:46	1.0
Benzo(a)anthracene	**9.2**	**J**	41	2.7	ug/kg dry	☼	12/27/10 08:25	12/31/10 21:46	1.0
Benzo(a)pyrene	**10**	**J**	41	2.7	ug/kg dry	☼	12/27/10 06:25	12/31/10 19:46	1.0
Benzo(a)pyrene	**10**	**J**	41	2.7	ug/kg dry	☼	12/27/10 08:25	12/31/10 21:46	1.0
Benzo(b)fluoranthene	**25**	**J**	41	2.7	ug/kg dry	☼	12/27/10 06:25	12/31/10 19:46	1.0
Benzo(b)fluoranthene	**25**	**J**	41	2.7	ug/kg dry	☼	12/27/10 08:25	12/31/10 21:46	1.0
Benzo(g,h,i)perylene	**10**	**J**	41	2.7	ug/kg dry	☼	12/27/10 06:25	12/31/10 19:46	1.0
Benzo(g,h,i)perylene	**10**	**J**	41	2.7	ug/kg dry	☼	12/27/10 08:25	12/31/10 21:46	1.0
Benzo(k)fluoranthene	**6.1**	**J**	41	2.7	ug/kg dry	☼	12/27/10 06:25	12/31/10 19:46	1.0
Benzo(k)fluoranthene	**6.1**	**J**	41	2.7	ug/kg dry	☼	12/27/10 08:25	12/31/10 21:46	1.0
Chrysene	**17**	**J**	41	2.7	ug/kg dry	☼	12/27/10 06:25	12/31/10 19:46	1.0
Chrysene	**17**	**J**	41	2.7	ug/kg dry	☼	12/27/10 08:25	12/31/10 21:46	1.0
Dibenz(a,h)anthracene	ND		41	3.4	ug/kg dry	☼	12/27/10 06:25	12/31/10 19:46	1.0
Dibenz(a,h)anthracene	ND		41	3.4	ug/kg dry	☼	12/27/10 08:25	12/31/10 21:46	1.0
Fluoranthene	**17**	**J**	41	2.7	ug/kg dry	☼	12/27/10 06:25	12/31/10 19:46	1.0
Fluoranthene	**17**	**J**	41	2.7	ug/kg dry	☼	12/27/10 08:25	12/31/10 21:46	1.0
Fluorene	ND		41	2.7	ug/kg dry	☼	12/27/10 06:25	12/31/10 19:46	1.0
Fluorene	ND		41	2.7	ug/kg dry	☼	12/27/10 08:25	12/31/10 21:46	1.0
Indeno(1,2,3-cd)pyrene	**8.6**	**J**	41	3.4	ug/kg dry	☼	12/27/10 06:25	12/31/10 19:46	1.0
Indeno(1,2,3-cd)pyrene	**8.6**	**J**	41	3.4	ug/kg dry	☼	12/27/10 08:25	12/31/10 21:46	1.0
Naphthalene	**4.8**	**J**	41	4.8	ug/kg dry	☼	12/27/10 06:25	12/31/10 19:46	1.0
Naphthalene	**4.8**	**J**	41	4.8	ug/kg dry	☼	12/27/10 08:25	12/31/10 21:46	1.0
Phenanthrene	**10**	**J**	41	2.7	ug/kg dry	☼	12/27/10 06:25	12/31/10 19:46	1.0
Phenanthrene	**10**	**J**	41	2.7	ug/kg dry	☼	12/27/10 08:25	12/31/10 21:46	1.0
Pyrene	**20**	**J**	41	2.7	ug/kg dry	☼	12/27/10 06:25	12/31/10 19:46	1.0
Pyrene	**20**	**J**	41	2.7	ug/kg dry	☼	12/27/10 08:25	12/31/10 21:46	1.0

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	71		35 - 120	12/27/10 06:25	12/31/10 19:46	1.0
2-Fluorobiphenyl	71		35 - 120	12/27/10 08:25	12/31/10 21:46	1.0
Nitrobenzene-d5	74		30 - 120	12/27/10 06:25	12/31/10 19:46	1.0
Nitrobenzene-d5	74		30 - 120	12/27/10 08:25	12/31/10 21:46	1.0
Terphenyl-d14	94		40 - 135	12/27/10 06:25	12/31/10 19:46	1.0
Terphenyl-d14	94		40 - 135	12/27/10 08:25	12/31/10 21:46	1.0

Method: EPA 8081A - ORGANOCHLORINE PESTICIDES (EPA 3546/8081A)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 17:40	1.0
4,4'-DDD	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 19:40	1.0
4,4'-DDE	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 17:40	1.0
4,4'-DDE	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 19:40	1.0
4,4'-DDT	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 17:40	1.0

Client Sample ID: DU-20
Date Collected: 12/15/10 16:10
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-15
Matrix: Solid/Soil
Percent Solids: 73.5

Method: EPA 8081A - ORGANOCHLORINE PESTICIDES (EPA 3546/8081A) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDT	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 19:40	1.0
Aldrin	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 17:40	1.0
Aldrin	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 19:40	1.0
alpha-BHC	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 17:40	1.0
alpha-BHC	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 19:40	1.0
beta-BHC	**5.0**	**H-1, RL4 J**	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 17:40	1.0
beta-BHC	**5.0**	**H-1, RL4 J**	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 19:40	1.0
delta-BHC	ND	H-1, RL4	15	2.2	ug/kg		02/04/11 07:50	02/07/11 17:40	1.0
delta-BHC	ND	H-1, RL4	15	2.2	ug/kg		02/04/11 09:50	02/07/11 19:40	1.0
Dieldrin	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 17:40	1.0
Dieldrin	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 19:40	1.0
Endosulfan I	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 17:40	1.0
Endosulfan I	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 19:40	1.0
Endosulfan II	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 17:40	1.0
Endosulfan II	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 19:40	1.0
Endosulfan sulfate	ND	H-1, RL4	15	3.0	ug/kg		02/04/11 07:50	02/07/11 17:40	1.0
Endosulfan sulfate	ND	H-1, RL4	15	3.0	ug/kg		02/04/11 09:50	02/07/11 19:40	1.0
Endrin	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 17:40	1.0
Endrin	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 19:40	1.0
Endrin aldehyde	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 17:40	1.0
Endrin aldehyde	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 19:40	1.0
Endrin ketone	ND	H-1, RL4	7.5	3.0	ug/kg		02/04/11 07:50	02/07/11 17:40	1.0
Endrin ketone	ND	H-1, RL4	7.5	3.0	ug/kg		02/04/11 09:50	02/07/11 19:40	1.0
gamma-BHC (Lindane)	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 17:40	1.0
gamma-BHC (Lindane)	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 19:40	1.0
Heptachlor	ND	H-1, RL4	7.5	3.0	ug/kg		02/04/11 07:50	02/07/11 17:40	1.0
Heptachlor	ND	H-1, RL4	7.5	3.0	ug/kg		02/04/11 09:50	02/07/11 19:40	1.0
Heptachlor epoxide	ND	H-1, RL4	7.5	3.0	ug/kg		02/04/11 07:50	02/07/11 17:40	1.0
Heptachlor epoxide	ND	H-1, RL4	7.5	3.0	ug/kg		02/04/11 09:50	02/07/11 19:40	1.0
Methoxychlor	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 07:50	02/07/11 17:40	1.0
Methoxychlor	ND	H-1, RL4	7.5	2.2	ug/kg		02/04/11 09:50	02/07/11 19:40	1.0
Chlordane	ND	H-1, RL4	75	15	ug/kg		02/04/11 07:50	02/07/11 17:40	1.0
Chlordane	ND	H-1, RL4	75	15	ug/kg		02/04/11 09:50	02/07/11 19:40	1.0
Toxaphene	ND	H-1, RL4	300	75	ug/kg		02/04/11 07:50	02/07/11 17:40	1.0
Toxaphene	ND	H-1, RL4	300	75	ug/kg		02/04/11 09:50	02/07/11 19:40	1.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*62*	*H-1, RL4*	*45 - 120*	*02/04/11 07:50*	*02/07/11 17:40*	*1.0*
Decachlorobiphenyl	*62*	*H-1, RL4*	*45 - 120*	*02/04/11 09:50*	*02/07/11 19:40*	*1.0*
Tetrachloro-m-xylene	*73*	*H-1, RL4*	*35 - 115*	*02/04/11 07:50*	*02/07/11 17:40*	*1.0*
Tetrachloro-m-xylene	*73*	*H-1, RL4*	*35 - 115*	*02/04/11 09:50*	*02/07/11 19:40*	*1.0*

Method: 8290 - Dioxins/Furans, HRGC/HRMS (8290)

Analyte	Result	Qualifier	RL	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	**18**		0.99	0.14	1	18	pg/g		01/05/11 18:00	01/11/11 06:09	0.98
Total TCDD	**35**		0.99	0.14			pg/g		01/05/11 18:00	01/11/11 06:09	0.98
1,2,3,7,8-PeCDD	**5.2**		4.9	0.23	0.5	2.6	pg/g		01/05/11 18:00	01/11/11 06:09	0.98
Total PeCDD	**16**		4.9	0.23			pg/g		01/05/11 18:00	01/11/11 06:09	0.98
1,2,3,4,7,8-HxCDD	**8.9**		4.9	0.28	0.1	0.89	pg/g		01/05/11 18:00	01/11/11 06:09	0.98
1,2,3,6,7,8-HxCDD	**42**		4.9	0.25	0.1	4.2	pg/g		01/05/11 18:00	01/11/11 06:09	0.98
1,2,3,7,8,9-HxCDD	**20**		4.9	0.24	0.1	2.0	pg/g		01/05/11 18:00	01/11/11 06:09	0.98

Client Sample ID: DU-20

Date Collected: 12/15/10 16:10
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-15

Matrix: Solid/Soil

Method: 8290 - Dioxins/Furans, HRGC/HRMS (8290) (Continued)

Analyte	Result	Qualifier	RL	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
Total HxCDD	230		4.9	0.26			pg/g		01/05/11 18:00	01/11/11 06:09	0.98
1,2,3,4,6,7,8-HpCDD	1300		4.9	1.8	0.01	13	pg/g		01/05/11 18:00	01/11/11 06:09	0.98
Total HpCDD	2800		4.9	1.8			pg/g		01/05/11 18:00	01/11/11 06:09	0.98
OCDD	14000	E G	17	17	0.001	14	pg/g		01/05/11 18:00	01/11/11 06:09	0.98
2,3,7,8-TCDF	1.5	CON	0.99	0.18	0.1	0.15	pg/g		01/05/11 18:00	01/11/11 06:09	0.98
Total TCDF	17		0.99	0.10			pg/g		01/05/11 18:00	01/11/11 06:09	0.98
1,2,3,7,8-PeCDF	ND		4.9	0.76	0.05		pg/g		01/05/11 18:00	01/11/11 06:09	0.98
2,3,4,7,8-PeCDF	ND		4.9	1.0	0.5		pg/g		01/05/11 18:00	01/11/11 06:09	0.98
Total PeCDF	18		4.9	0.15			pg/g		01/05/11 18:00	01/11/11 06:09	0.98
1,2,3,4,7,8-HxCDF	10		4.9	0.30	0.1	1.0	pg/g		01/05/11 18:00	01/11/11 06:09	0.98
1,2,3,6,7,8-HxCDF	5.8		4.9	0.29	0.1	0.58	pg/g		01/05/11 18:00	01/11/11 06:09	0.98
2,3,4,6,7,8-HxCDF	5.5		4.9	0.30	0.1	0.55	pg/g		01/05/11 18:00	01/11/11 06:09	0.98
1,2,3,7,8,9-HxCDF	ND		4.9	0.33	0.1		pg/g		01/05/11 18:00	01/11/11 06:09	0.98
Total HxCDF	370		4.9	0.30			pg/g		01/05/11 18:00	01/11/11 06:09	0.98
1,2,3,4,6,7,8-HpCDF	420		4.9	0.71	0.01	4.2	pg/g		01/05/11 18:00	01/11/11 06:09	0.98
1,2,3,4,7,8,9-HpCDF	23		4.9	0.87	0.01	0.23	pg/g		01/05/11 18:00	01/11/11 06:09	0.98
Total HpCDF	1600		4.9	0.78			pg/g		01/05/11 18:00	01/11/11 06:09	0.98
OCDF	1200		9.9	1.7	0.001	1.2	pg/g		01/05/11 18:00	01/11/11 06:09	0.98
Total TEQ						**63**					

Internal Standard	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*97*		*40 - 135*	*01/05/11 18:00*	*01/11/11 06:09*	*0.98*
13C-1,2,3,7,8-PeCDD	*93*		*40 - 135*	*01/05/11 18:00*	*01/11/11 06:09*	*0.98*
13C-1,2,3,6,7,8-HxCDD	*98*		*40 - 135*	*01/05/11 18:00*	*01/11/11 06:09*	*0.98*
13C-1,2,3,4,6,7,8-HpCDD	*102*		*40 - 135*	*01/05/11 18:00*	*01/11/11 06:09*	*0.98*
13C-OCDD	*102*		*40 - 135*	*01/05/11 18:00*	*01/11/11 06:09*	*0.98*
13C-2,3,7,8-TCDF	*95*		*40 - 135*	*01/05/11 18:00*	*01/11/11 06:09*	*0.98*
13C-1,2,3,7,8-PeCDF	*105*		*40 - 135*	*01/05/11 18:00*	*01/11/11 06:09*	*0.98*
13C-1,2,3,4,7,8-HxCDF	*89*		*40 - 135*	*01/05/11 18:00*	*01/11/11 06:09*	*0.98*
13C-1,2,3,4,6,7,8-HpCDF	*94*		*40 - 135*	*01/05/11 18:00*	*01/11/11 06:09*	*0.98*

Method: EPA 6010 - Total Metals by EPA Method 6010/7471

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.57	J	9.84	0.0787	mg/kg		01/12/11 14:20	01/14/11 16:23	1.00
Barium	99.8		19.7	0.0827	mg/kg		01/12/11 14:20	01/14/11 16:23	1.00
Cadmium	0.221	J	3.94	0.0797	mg/kg		01/12/11 14:20	01/14/11 16:23	1.00
Chromium	66.5		9.84	0.0719	mg/kg		01/12/11 14:20	01/14/11 16:23	1.00
Lead	12.9	J	19.7	0.0689	mg/kg		01/12/11 14:20	01/14/11 16:23	1.00
Selenium	2.07	J	19.7	0.0886	mg/kg		01/12/11 14:20	01/14/11 16:23	1.00
Silver	0.296	J	9.84	0.00689	mg/kg		01/12/11 14:20	01/14/11 16:23	1.00

Method: EPA 7471 - Total Metals by EPA Method 6010/7471

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.432		0.0698	0.00140	mg/kg dry		01/04/11 10:23	01/04/11 17:21	10.0

Client Sample ID: TS-1

Date Collected: 12/14/10 12:05
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-16

Matrix: Water - NonPotable

Method: EPA 8270 SIM - PAH Compounds by EPA Method 8270 SIM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	0.217		0.213	0.0362	ug/L		12/21/10 10:45	01/06/11 01:27	1.00
2-Methylnaphthalene	0.206	J	0.213	0.0745	ug/L		12/21/10 10:45	01/06/11 01:27	1.00
Acenaphthene	0.371		0.213	0.0263	ug/L		12/21/10 10:45	01/06/11 01:27	1.00
Acenaphthylene	ND		0.213	0.0231	ug/L		12/21/10 10:45	01/06/11 01:27	1.00
Anthracene	12.0		0.213	0.0291	ug/L		12/21/10 10:45	01/06/11 01:27	1.00
Benzo (a) anthracene	4.47		0.213	0.0334	ug/L		12/21/10 10:45	01/06/11 01:27	1.00
Benzo (a) pyrene	4.41		0.106	0.0422	ug/L		12/21/10 10:45	01/06/11 01:27	1.00
Benzo (b) fluoranthene	7.75		0.213	0.0328	ug/L		12/21/10 10:45	01/06/11 01:27	1.00
Benzo (g,h,i) perylene	3.17		0.213	0.0573	ug/L		12/21/10 10:45	01/06/11 01:27	1.00
Benzo (k) fluoranthene	2.62		0.213	0.0820	ug/L		12/21/10 10:45	01/06/11 01:27	1.00
Chrysene	8.22		0.213	0.0361	ug/L		12/21/10 10:45	01/06/11 01:27	1.00
Dibenzo (a,h) anthracene	0.883		0.213	0.0902	ug/L		12/21/10 10:45	01/06/11 01:27	1.00
Fluoranthene	16.5		1.06	0.180	ug/L		12/21/10 10:45	01/06/11 15:18	5.00
Fluorene	0.211	J	0.213	0.0239	ug/L		12/21/10 10:45	01/06/11 01:27	1.00
Indeno (1,2,3-cd) pyrene	2.97		0.213	0.0524	ug/L		12/21/10 10:45	01/06/11 01:27	1.00
Naphthalene	4.85		0.213	0.0434	ug/L		12/21/10 10:45	01/06/11 01:27	1.00
Phenanthrene	11.5		0.213	0.0209	ug/L		12/21/10 10:45	01/06/11 01:27	1.00
Pyrene	14.4		0.213	0.0379	ug/L		12/21/10 10:45	01/06/11 01:27	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*107*		*50 - 120*	*12/21/10 10:45*	*01/06/11 01:27*	*1.00*
Nitrobenzene-d5	*107*		*50 - 120*	*12/21/10 10:45*	*01/06/11 01:27*	*1.00*
Terphenyl-d14	*89*		*50 - 120*	*12/21/10 10:45*	*01/06/11 01:27*	*1.00*

Method: EPA 8081A - ORGANOCHLORINE PESTICIDES (EPA 3510C/8081A)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	RL4, H3 C-1a	0.17	0.050	ug/l		12/29/10 05:34	12/29/10 23:59	1.0
4,4'-DDD	ND	RL4, H3 C-1a	0.17	0.050	ug/l		12/29/10 07:34	12/30/10 01:59	1.0
4,4'-DDE	ND	RL4, H3	0.17	0.050	ug/l		12/29/10 05:34	12/29/10 23:59	1.0
4,4'-DDE	ND	RL4, H3	0.17	0.050	ug/l		12/29/10 07:34	12/30/10 01:59	1.0
4,4'-DDT	ND	RL4, H3 C-2b	0.17	0.050	ug/l		12/29/10 05:34	12/29/10 23:59	1.0
4,4'-DDT	ND	RL4, H3 C-2b, C-2c	0.17	0.050	ug/l		12/29/10 07:34	12/30/10 01:59	1.0
Aldrin	ND	RL4, H3	0.17	0.050	ug/l		12/29/10 05:34	12/29/10 23:59	1.0
Aldrin	ND	RL4, H3	0.17	0.050	ug/l		12/29/10 07:34	12/30/10 01:59	1.0
alpha-BHC	ND	RL4, H3	0.17	0.033	ug/l		12/29/10 05:34	12/29/10 23:59	1.0
alpha-BHC	ND	RL4, H3	0.17	0.033	ug/l		12/29/10 07:34	12/30/10 01:59	1.0
beta-BHC	ND	RL4, H3	0.17	0.067	ug/l		12/29/10 05:34	12/29/10 23:59	1.0
beta-BHC	ND	RL4, H3	0.17	0.067	ug/l		12/29/10 07:34	12/30/10 01:59	1.0
delta-BHC	ND	RL4, H3 C-1d	0.33	0.033	ug/l		12/29/10 05:34	12/29/10 23:59	1.0
delta-BHC	ND	RL4, H3 C-1d	0.33	0.033	ug/l		12/29/10 07:34	12/30/10 01:59	1.0
Dieldrin	ND	RL4, H3	0.17	0.050	ug/l		12/29/10 05:34	12/29/10 23:59	1.0
Dieldrin	ND	RL4, H3	0.17	0.050	ug/l		12/29/10 07:34	12/30/10 01:59	1.0
Endosulfan I	ND	RL4, H3	0.17	0.050	ug/l		12/29/10 05:34	12/29/10 23:59	1.0
Endosulfan I	ND	RL4, H3	0.17	0.050	ug/l		12/29/10 07:34	12/30/10 01:59	1.0
Endosulfan II	ND	RL4, H3	0.17	0.067	ug/l		12/29/10 05:34	12/29/10 23:59	1.0
Endosulfan II	ND	RL4, H3	0.17	0.067	ug/l		12/29/10 07:34	12/30/10 01:59	1.0
Endosulfan sulfate	ND	RL4, H3	0.33	0.083	ug/l		12/29/10 05:34	12/29/10 23:59	1.0
Endosulfan sulfate	ND	RL4, H3	0.33	0.083	ug/l		12/29/10 07:34	12/30/10 01:59	1.0

Client Sample ID: TS-1

Date Collected: 12/14/10 12:05
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-16

Matrix: Water - NonPotable

Method: EPA 8081A - ORGANOCHLORINE PESTICIDES (EPA 3510C/8081A) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin	ND	RL4, H3 C-1b	0.17	0.050	ug/l		12/29/10 05:34	12/29/10 23:59	1.0
Endrin	ND	RL4, H3 C-1b	0.17	0.050	ug/l		12/29/10 07:34	12/30/10 01:59	1.0
Endrin aldehyde	ND	RL4, H3	0.17	0.083	ug/l		12/29/10 05:34	12/29/10 23:59	1.0
Endrin aldehyde	ND	RL4, H3	0.17	0.083	ug/l		12/29/10 07:34	12/30/10 01:59	1.0
Endrin ketone	ND	RL4, H3	0.17	0.067	ug/l		12/29/10 05:34	12/29/10 23:59	1.0
Endrin ketone	ND	RL4, H3	0.17	0.067	ug/l		12/29/10 07:34	12/30/10 01:59	1.0
gamma-BHC (Lindane)	ND	RL4, H3 C-1b	0.17	0.050	ug/l		12/29/10 05:34	12/29/10 23:59	1.0
gamma-BHC (Lindane)	ND	RL4, H3 C-1b	0.17	0.050	ug/l		12/29/10 07:34	12/30/10 01:59	1.0
Heptachlor	ND	RL4, H3 C-1c	0.17	0.050	ug/l		12/29/10 05:34	12/29/10 23:59	1.0
Heptachlor	ND	RL4, H3 C-1c	0.17	0.050	ug/l		12/29/10 07:34	12/30/10 01:59	1.0
Heptachlor epoxide	ND	RL4, H3	0.17	0.050	ug/l		12/29/10 05:34	12/29/10 23:59	1.0
Heptachlor epoxide	ND	RL4, H3	0.17	0.050	ug/l		12/29/10 07:34	12/30/10 01:59	1.0
Methoxychlor	ND	RL4, H3 C-1c	0.17	0.067	ug/l		12/29/10 05:34	12/29/10 23:59	1.0
Methoxychlor	ND	RL4, H3 C-1c	0.17	0.067	ug/l		12/29/10 07:34	12/30/10 01:59	1.0
Chlordane	ND	RL4, H3	1.7	0.50	ug/l		12/29/10 05:34	12/29/10 23:59	1.0
Chlordane	ND	RL4, H3	1.7	0.50	ug/l		12/29/10 07:34	12/30/10 01:59	1.0
Toxaphene	ND	RL4, H3	8.3	1.3	ug/l		12/29/10 05:34	12/29/10 23:59	1.0
Toxaphene	ND	RL4, H3	8.3	1.3	ug/l		12/29/10 07:34	12/30/10 01:59	1.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*107*	*RL4, H3*	*45 - 120*	*12/29/10 05:34*	*12/29/10 23:59*	*1.0*
Decachlorobiphenyl	*107*	*RL4, H3*	*45 - 120*	*12/29/10 07:34*	*12/30/10 01:59*	*1.0*
Tetrachloro-m-xylene	*86*	*RL4, H3*	*35 - 115*	*12/29/10 05:34*	*12/29/10 23:59*	*1.0*
Tetrachloro-m-xylene	*86*	*RL4, H3*	*35 - 115*	*12/29/10 07:34*	*12/30/10 01:59*	*1.0*

Method: EPA 6010B - METALS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10	7.0	ug/l		12/29/10 06:55	01/05/11 06:46	1.0
Arsenic	ND		10	7.0	ug/l		12/29/10 08:55	01/05/11 08:46	1.0
Barium	ND		10	6.0	ug/l		12/29/10 06:55	01/05/11 06:46	1.0
Barium	ND		10	6.0	ug/l		12/29/10 08:55	01/05/11 08:46	1.0
Cadmium	ND		5.0	2.0	ug/l		12/29/10 06:55	01/05/11 06:46	1.0
Cadmium	ND		5.0	2.0	ug/l		12/29/10 08:55	01/05/11 08:46	1.0
Chromium	ND		5.0	2.0	ug/l		12/29/10 06:55	01/05/11 06:46	1.0
Chromium	ND		5.0	2.0	ug/l		12/29/10 08:55	01/05/11 08:46	1.0
Lead	ND		5.0	4.0	ug/l		12/29/10 06:55	01/05/11 06:46	1.0
Lead	ND		5.0	4.0	ug/l		12/29/10 08:55	01/05/11 08:46	1.0
Selenium	ND		10	8.0	ug/l		12/29/10 06:55	01/05/11 06:46	1.0
Selenium	ND		10	8.0	ug/l		12/29/10 08:55	01/05/11 08:46	1.0
Silver	ND		10	6.0	ug/l		12/29/10 06:55	01/05/11 06:46	1.0
Silver	ND		10	6.0	ug/l		12/29/10 08:55	01/05/11 08:46	1.0

Method: EPA 7470A - METALS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/l		12/30/10 10:44	12/30/10 16:36	1.0
Mercury	ND		0.20	0.10	ug/l		12/30/10 12:44	12/30/10 18:36	1.0

Surrogate Summary

Client: Weston Solutions, Inc.
Project/Site: Kohala Sugar Company, 12767.063.594.1121

TestAmerica Job ID: HTL0133
SDG: HTL0133

Method: EPA 8270 - Semivolatile Organics Compounds by EPA 8270

Matrix: Solid/Soil **Prep Type: total**

		Percent Surrogate Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	TBP (40-120)						
11B0044-BLK1	11B0044-BLK1	75						
11B0044-BS1	11B0044-BS1	88						
11B0044-MS1	DU-9-2	74						
11B0044-MSD1	DU-9-2	85						
HTL0133-01	DU-07	76 H1						
HTL0133-02	DU-8	85 H1						
HTL0133-03	DU-18	73 H1						
HTL0133-04	DU-19	99 H1						
HTL0133-06	DU-10	94 H1						
HTL0133-07	DU-5-2	86 H1						
HTL0133-08	DU-6-2	97 H1						
HTL0133-09	DU-9-2	79 H1 A-01						
HTL0133-11	DU-13-4	89 H1						
HTL0133-12	DU-12-4	63 H1						
HTL0133-14	DU-11	82 H1						
HTL0133-15	DU-20	89 H1						

Surrogate Legend

TBP = 2,4,6-Tribromophenol

Method: EPA 8270 SIM - PAH Compounds by EPA Method 8270 SIM

Matrix: Water - NonPotable **Prep Type: total**

		Percent Surrogate Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	FBP (50-120)	NBZ (50-120)	TPH (50-120)				
10L0158-BLK1	10L0158-BLK1	79	102	103				
10L0158-BS1	10L0158-BS1	107	106	91				
10L0158-BSD1	10L0158-BSD1	116	107	105				
HTL0133-05	EQ-1	91 H1	106 H1	107 H1				
HTL0133-10	EQ-2	101	110	96				
HTL0133-13	EQ-3	101	110	94				
HTL0133-16	TS-1	107	107	89				

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5
TPH = Terphenyl-d14

Method: EPA 8270C-SIM - POLYNUCLEAR AROMATIC HYDROCARBONS BY GC/MS

Matrix: Soil **Prep Type: total**

		Percent Surrogate Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	FBP (35-120)	NBZ (30-120)	TPH (40-135)				
10L2992-BLK1	10L2992-BLK1	82	100	107				
10L2992-BS1	10L2992-BS1	74	94	95				
10L2992-MS1	DU-07	81	86	96				
10L2992-MSD1	DU-07	82	91	99				

Surrogate Legend

FBP = 2-Fluorobiphenyl

NBZ = Nitrobenzene-d5
TPH = Terphenyl-d14

Method: EPA 8270C-SIM - POLYNUCLEAR AROMATIC HYDROCARBONS BY GC/MS

Matrix: Solid/Soil **Prep Type: total**

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPH
Lab Sample ID	Client Sample ID	(35-120)	(30-120)	(40-135)
HTL0133-01	DU-07	76	82	89
HTL0133-01	DU-07	76	82	89
HTL0133-02	DU-8	84 RL1	76 RL1	98 RL1
HTL0133-02	DU-8	84 RL1	76 RL1	98 RL1
HTL0133-03	DU-18	85 RL1	80 RL1	100 RL1
HTL0133-03	DU-18	85 RL1	80 RL1	100 RL1
HTL0133-04	DU-19	86 RL1	81 RL1	100 RL1
HTL0133-04	DU-19	86 RL1	81 RL1	100 RL1
HTL0133-06	DU-10	81 RL1	78 RL1	100 RL1
HTL0133-06	DU-10	81 RL1	78 RL1	100 RL1
HTL0133-07	DU-5-2	82	88	96
HTL0133-07	DU-5-2	82	88	96
HTL0133-08	DU-6-2	77 RL2	81 RL2	100 RL2
HTL0133-08	DU-6-2	77 RL2	81 RL2	100 RL2
HTL0133-09	DU-9-2	89	92	108
HTL0133-09	DU-9-2	89	92	108
HTL0133-11	DU-13-4	76	84	97
HTL0133-11	DU-13-4	76	84	97
HTL0133-12	DU-12-4	74 RL1	83 RL1	94 RL1
HTL0133-12	DU-12-4	74 RL1	83 RL1	94 RL1
HTL0133-14	DU-11	80	81	98
HTL0133-14	DU-11	80	81	98
HTL0133-15	DU-20	71	74	94
HTL0133-15	DU-20	71	74	94

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5
TPH = Terphenyl-d14

Method: EPA 8081A - ORGANOCHLORINE PESTICIDES (EPA 3510C/8081A)

Matrix: Water **Prep Type: total**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB	TCX
Lab Sample ID	Client Sample ID	(45-120)	(35-115)
10L3249-BLK1	10L3249-BLK1	101	68
10L3249-BS1	10L3249-BS1	95 MNR1	63 MNR1
10L3249-BSD1	10L3249-BSD1	97	69

Surrogate Legend

DCB = Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: Weston Solutions, Inc.
Project/Site: Kohala Sugar Company, 12767.063.594.1121

TestAmerica Job ID: HTL0133
SDG: HTL0133

Method: EPA 8081A - ORGANOCHLORINE PESTICIDES (EPA 3510C/8081A)

Matrix: Water - NonPotable **Prep Type: total**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	DCB (45-120)	TCX (35-115)								
HTL0133-05	EQ-1	95 H3	79 H3								
HTL0133-05	EQ-1	95 H3	79 H3								
HTL0133-13	EQ-3	98 H3	60 H3								
HTL0133-13	EQ-3	98 H3	60 H3								
HTL0133-16	TS-1	107 RL4, H3	86 RL4, H3								
HTL0133-16	TS-1	107 RL4, H3	86 RL4, H3								

Surrogate Legend

DCB = Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: EPA 8081A - ORGANOCHLORINE PESTICIDES (EPA 3546/8081A)

Matrix: Soil **Prep Type: total**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	DCB (45-120)	TCX (35-115)								
11B0583-BLK1	11B0583-BLK1	89	74								
11B0583-BS1	11B0583-BS1	100	91								
11B0583-MS1	DU-13-4	60	67								
11B0583-MSD1	DU-13-4	61	68								
11B3315-BLK1	11B3315-BLK1	91	87								
11B3315-BS1	11B3315-BS1	96 MNR	89 MNR								

Surrogate Legend

DCB = Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: EPA 8081A - ORGANOCHLORINE PESTICIDES (EPA 3546/8081A)

Matrix: Solid/Soil **Prep Type: total**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	DCB (45-120)	TCX (35-115)								
HTL0133-01	DU-07	64 H-1, RL4	75 H-1, RL4								
HTL0133-01	DU-07	64 H-1, RL4	75 H-1, RL4								
HTL0133-02	DU-8	58 H-1	65 H-1								
HTL0133-02	DU-8	58 H-1	65 H-1								
HTL0133-03	DU-18	69 H-1	67 H-1								
HTL0133-03	DU-18	69 H-1	67 H-1								
HTL0133-04	DU-19	67 H-1	68 H-1								
HTL0133-04	DU-19	67 H-1	68 H-1								
HTL0133-06	DU-10	54 H-1	64 H-1								
HTL0133-06	DU-10	54 H-1	64 H-1								
HTL0133-07	DU-5-2	56 H-1, RL4	50 H-1, RL4								
HTL0133-07	DU-5-2	56 H-1, RL4	50 H-1, RL4								
HTL0133-08	DU-6-2	56 H-1, RL4	55 H-1, RL4								

Surrogate Summary

Client: Weston Solutions, Inc.
Project/Site: Kohala Sugar Company, 12767.063.594.1121

TestAmerica Job ID: HTL0133
SDG: HTL0133

Method: EPA 8081A - ORGANOCHLORINE PESTICIDES (EPA 3546/8081A) (Continued)

Matrix: Solid/Soil **Prep Type: total**

		Percent Surrogate Recovery (Acceptance Limits)								
Lab Sample ID	**Client Sample ID**	**DCB (45-120)**	**TCX (35-115)**							
HTL0133-08	DU-6-2	56 H-1, RL4	55 H-1, RL4							
HTL0133-09	DU-9-2	95 H-1, RL4	65 H-1, RL4							
HTL0133-09	DU-9-2	95 H-1, RL4	65 H-1, RL4							
HTL0133-11	DU-13-4	64 H-1, RL4	69 H-1, RL4							
HTL0133-11	DU-13-4	64 H-1, RL4	69 H-1, RL4							
HTL0133-12	DU-12-4	62 H-1, RL4	69 H-1, RL4							
HTL0133-12	DU-12-4	62 H-1, RL4	69 H-1, RL4							
HTL0133-14	DU-11	84 H-1	76 H-1							
HTL0133-14	DU-11	84 H-1	76 H-1							
HTL0133-15	DU-20	62 H-1, RL4	73 H-1, RL4							
HTL0133-15	DU-20	62 H-1, RL4	73 H-1, RL4							

Surrogate Legend

DCB = Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Internal Standard Summary

Client: Weston Solutions, Inc.
Project/Site: Kohala Sugar Company, 12767.063.594.1121

TestAmerica Job ID: HTL0133
SDG: HTL0133

Method: 8290 - Dioxins/Furans, HRGC/HRMS (8290)

Matrix: Solid **Prep Type: Total**

		Percent Internal Standard Recovery (Acceptance Limits)							
		TCDD	PeCDD	HxCDD2	HpCDD	OCDD	TCDF	PeCDF1	HxCDF1
Lab Sample ID	Client Sample ID	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)
G1A050000232B	INTRA-LAB BLANK	82	87	91	84	75	77	90	70
G1A050000232C	CHECK SAMPLE	89	95	98	94	81	83	95	79

		Percent Internal Standard Recovery (Acceptance Limits)
		HpCDF1
Lab Sample ID	Client Sample ID	(40-135)
G1A050000232B	INTRA-LAB BLANK	77
G1A050000232C	CHECK SAMPLE	84

Internal Standard Legend

TCDD = 13C-2,3,7,8-TCDD
PeCDD = 13C-1,2,3,7,8-PeCDD
HxCDD2 = 13C-1,2,3,6,7,8-HxCDD
HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
OCDD = 13C-OCDD
TCDF = 13C-2,3,7,8-TCDF
PeCDF1 = 13C-1,2,3,7,8-PeCDF
HxCDF1 = 13C-1,2,3,4,7,8-HxCDF
HpCDF1 = 13C-1,2,3,4,6,7,8-HpCDF

Method: 8290 - Dioxins/Furans, HRGC/HRMS (8290)

Matrix: Solid/Soil **Prep Type: Total**

		Percent Internal Standard Recovery (Acceptance Limits)							
		TCDD	PeCDD	HxCDD2	HpCDD	OCDD	TCDF	PeCDF1	HxCDF1
Lab Sample ID	Client Sample ID	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)
HTL0133-01	DU-07	105	116	114	116	130	99	117	93
HTL0133-02	DU-8	93	103	99	103	110	88	101	79
HTL0133-03	DU-18	91	96	103	105	110	86	100	83
HTL0133-04	DU-19	93	89	102	98	99	94	101	89
HTL0133-06	DU-10	97	97	111	105	104	99	106	92
HTL0133-07	DU-5-2	106	93	99	105	124	92	104	86
HTL0133-08	DU-6-2	101	101	108	109	109	106	113	96
HTL0133-09	DU-9-2	109	102	113	112	113	108	119	99
HTL0133-11	DU-13-4	92	85	99	100	106	88	95	87
HTL0133-12	DU-12-4	101	109	109	94	81	100	116	99
HTL0133-14	DU-11	90	85	92	98	100	89	96	87
HTL0133-15	DU-20	97	93	98	102	102	95	105	89

		Percent Internal Standard Recovery (Acceptance Limits)
		HpCDF1
Lab Sample ID	Client Sample ID	(40-135)
HTL0133-01	DU-07	102
HTL0133-02	DU-8	89
HTL0133-03	DU-18	88
HTL0133-04	DU-19	90
HTL0133-06	DU-10	95
HTL0133-07	DU-5-2	91
HTL0133-08	DU-6-2	98
HTL0133-09	DU-9-2	103
HTL0133-11	DU-13-4	94
HTL0133-12	DU-12-4	91
HTL0133-14	DU-11	89

Method: 8290 - Dioxins/Furans, HRGC/HRMS (8290) (Continued)

Matrix: Solid/Soil **Prep Type: Total**

		Percent Internal Standard Recovery (Acceptance Limits)							
		HpCDF1							
Lab Sample ID	Client Sample ID	(40-135)							
HTL0133-15	DU-20	94							

Internal Standard Legend

TCDD = 13C-2,3,7,8-TCDD
PeCDD = 13C-1,2,3,7,8-PeCDD
HxCDD2 = 13C-1,2,3,6,7,8-HxCDD
HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
OCDD = 13C-OCDD
TCDF = 13C-2,3,7,8-TCDF
PeCDF1 = 13C-1,2,3,7,8-PeCDF
HxCDF1 = 13C-1,2,3,4,7,8-HxCDF
HpCDF1 = 13C-1,2,3,4,6,7,8-HpCDF

Method: 8290 - Dioxins/Furans, HRGC/HRMS (8290)

Matrix: Water **Prep Type: Total**

		Percent Internal Standard Recovery (Acceptance Limits)							
		TCDD	PeCDD	HxCDD2	HpCDD	OCDD	TCDF	PeCDF1	HxCDF1
Lab Sample ID	Client Sample ID	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)
G1A070000091B	INTRA-LAB BLANK	69	80	87	80	72	68	82	75
G1A070000091C	CHECK SAMPLE	68	72	81	80	73	67	79	72

		Percent Internal Standard Recovery (Acceptance Limits)							
		HpCDF1							
Lab Sample ID	Client Sample ID	(40-135)							
G1A070000091B	INTRA-LAB BLANK	76							
G1A070000091C	CHECK SAMPLE	73							

Internal Standard Legend

TCDD = 13C-2,3,7,8-TCDD
PeCDD = 13C-1,2,3,7,8-PeCDD
HxCDD2 = 13C-1,2,3,6,7,8-HxCDD
HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
OCDD = 13C-OCDD
TCDF = 13C-2,3,7,8-TCDF
PeCDF1 = 13C-1,2,3,7,8-PeCDF
HxCDF1 = 13C-1,2,3,4,7,8-HxCDF
HpCDF1 = 13C-1,2,3,4,6,7,8-HpCDF

Method: 8290 - Dioxins/Furans, HRGC/HRMS (8290)

Matrix: Water - NonPotable **Prep Type: Total**

		Percent Internal Standard Recovery (Acceptance Limits)							
		TCDD	PeCDD	HxCDD2	HpCDD	OCDD	TCDF	PeCDF1	HxCDF1
Lab Sample ID	Client Sample ID	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)
HTL0133-05	EQ-1	75	77	84	84	76	74	83	75

		Percent Internal Standard Recovery (Acceptance Limits)							
		HpCDF1							
Lab Sample ID	Client Sample ID	(40-135)							
HTL0133-05	EQ-1	79							

Internal Standard Legend

TCDD = 13C-2,3,7,8-TCDD

Internal Standard Summary

Client: Weston Solutions, Inc.
Project/Site: Kohala Sugar Company, 12767.063.594.1121

TestAmerica Job ID: HTL0133
SDG: HTL0133

PeCDD = 13C-1,2,3,7,8-PeCDD
HxCDD2 = 13C-1,2,3,6,7,8-HxCDD
HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
OCDD = 13C-OCDD
TCDF = 13C-2,3,7,8-TCDF
PeCDF1 = 13C-1,2,3,7,8-PeCDF
HxCDF1 = 13C-1,2,3,4,7,8-HxCDF
HpCDF1 = 13C-1,2,3,4,6,7,8-HpCDF

Method: EPA 8270 - Semivolatile Organics Compounds by EPA 8270

Lab Sample ID: 11B0044-BLK1 — **Client Sample ID: 11B0044-BLK1**
Matrix: Solid/Soil — **Prep Type: total**
Analysis Batch: 11B0044 — **Prep Batch: 11B0044_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.330	0.0838	mg/kg		02/07/11 08:40	02/07/11 18:17	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*75*		*40 - 120*	*02/07/11 08:40*	*02/07/11 18:17*	*1.00*

Lab Sample ID: 11B0044-BS1 — **Client Sample ID: 11B0044-BS1**
Matrix: Solid/Soil — **Prep Type: total**
Analysis Batch: 11B0044 — **Prep Batch: 11B0044_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Pentachlorophenol	1.67	1.46		mg/kg		88	50 - 120

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*88*		*40 - 120*

Lab Sample ID: 11B0044-MS1 — **Client Sample ID: DU-9-2**
Matrix: Solid/Soil — **Prep Type: total**
Analysis Batch: 11B0044 — **Prep Batch: 11B0044_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Pentachlorophenol	0.785	H1 A-01	1.60	1.64		mg/kg		53	50 - 120

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
2,4,6-Tribromophenol	*74*		*40 - 120*

Lab Sample ID: 11B0044-MSD1 — **Client Sample ID: DU-9-2**
Matrix: Solid/Soil — **Prep Type: total**
Analysis Batch: 11B0044 — **Prep Batch: 11B0044_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Pentachlorophenol	0.785	H1 A-01	1.67	2.05		mg/kg		76	50 - 120	22	30

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
2,4,6-Tribromophenol	*85*		*40 - 120*

Method: EPA 8270 SIM - PAH Compounds by EPA Method 8270 SIM

Lab Sample ID: 10L0158-BLK1 — **Client Sample ID: 10L0158-BLK1**
Matrix: Water - NonPotable — **Prep Type: total**
Analysis Batch: 10L0158 — **Prep Batch: 10L0158_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	0.0623	J	0.200	0.0340	ug/L		12/21/10 10:43	01/05/11 21:56	1.00
2-Methylnaphthalene	ND		0.200	0.0700	ug/L		12/21/10 10:43	01/05/11 21:56	1.00
Acenaphthene	ND		0.200	0.0247	ug/L		12/21/10 10:43	01/05/11 21:56	1.00
Acenaphthylene	ND		0.200	0.0217	ug/L		12/21/10 10:43	01/05/11 21:56	1.00
Anthracene	ND		0.200	0.0274	ug/L		12/21/10 10:43	01/05/11 21:56	1.00
Benzo (a) anthracene	0.0338	J	0.200	0.0314	ug/L		12/21/10 10:43	01/05/11 21:56	1.00

Method: EPA 8270 SIM - PAH Compounds by EPA Method 8270 SIM (Continued)

Lab Sample ID: 10L0158-BLK1 — **Client Sample ID: 10L0158-BLK1**
Matrix: Water - NonPotable — **Prep Type: total**
Analysis Batch: 10L0158 — **Prep Batch: 10L0158_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo (a) pyrene	ND		0.100	0.0397	ug/L		12/21/10 10:43	01/05/11 21:56	1.00
Benzo (b) fluoranthene	ND		0.200	0.0308	ug/L		12/21/10 10:43	01/05/11 21:56	1.00
Benzo (g,h,i) perylene	ND		0.200	0.0539	ug/L		12/21/10 10:43	01/05/11 21:56	1.00
Benzo (k) fluoranthene	ND		0.200	0.0771	ug/L		12/21/10 10:43	01/05/11 21:56	1.00
Chrysene	ND		0.200	0.0339	ug/L		12/21/10 10:43	01/05/11 21:56	1.00
Dibenzo (a,h) anthracene	ND		0.200	0.0848	ug/L		12/21/10 10:43	01/05/11 21:56	1.00
Fluoranthene	0.0556	J	0.200	0.0339	ug/L		12/21/10 10:43	01/05/11 21:56	1.00
Fluorene	ND		0.200	0.0224	ug/L		12/21/10 10:43	01/05/11 21:56	1.00
Indeno (1,2,3-cd) pyrene	ND		0.200	0.0492	ug/L		12/21/10 10:43	01/05/11 21:56	1.00
Naphthalene	ND		0.200	0.0408	ug/L		12/21/10 10:43	01/05/11 21:56	1.00
Phenanthrene	ND		0.200	0.0196	ug/L		12/21/10 10:43	01/05/11 21:56	1.00
Pyrene	ND		0.200	0.0356	ug/L		12/21/10 10:43	01/05/11 21:56	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*50 - 120*	*12/21/10 10:43*	*01/05/11 21:56*	*1.00*
Nitrobenzene-d5	*102*		*50 - 120*	*12/21/10 10:43*	*01/05/11 21:56*	*1.00*
Terphenyl-d14	*103*		*50 - 120*	*12/21/10 10:43*	*01/05/11 21:56*	*1.00*

Lab Sample ID: 10L0158-BS1 — **Client Sample ID: 10L0158-BS1**
Matrix: Water - NonPotable — **Prep Type: total**
Analysis Batch: 10L0158 — **Prep Batch: 10L0158_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
1-Methylnaphthalene	5.00	4.60		ug/L		92	55 - 120
2-Methylnaphthalene	5.00	4.52		ug/L		90	45 - 120
Acenaphthene	5.00	5.17		ug/L		103	60 - 120
Acenaphthylene	5.00	5.32		ug/L		106	60 - 120
Anthracene	5.00	5.38		ug/L		108	60 - 120
Benzo (a) anthracene	5.00	5.29		ug/L		106	60 - 120
Benzo (a) pyrene	5.00	3.72		ug/L		74	45 - 120
Benzo (b) fluoranthene	5.00	4.17		ug/L		83	35 - 120
Benzo (g,h,i) perylene	5.00	2.91		ug/L		58	25 - 120
Benzo (k) fluoranthene	5.00	3.63		ug/L		73	30 - 120
Chrysene	5.00	5.43		ug/L		109	55 - 120
Dibenzo (a,h) anthracene	5.00	2.74		ug/L		55	20 - 120
Fluoranthene	5.00	5.51		ug/L		110	55 - 120
Fluorene	5.00	5.35		ug/L		107	60 - 120
Indeno (1,2,3-cd) pyrene	5.00	3.01		ug/L		60	25 - 120
Naphthalene	5.00	4.79		ug/L		96	55 - 120
Phenanthrene	5.00	5.35		ug/L		107	45 - 120
Pyrene	5.00	5.62		ug/L		112	60 - 120

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*107*		*50 - 120*
Nitrobenzene-d5	*106*		*50 - 120*
Terphenyl-d14	*91*		*50 - 120*

Method: EPA 8270 SIM - PAH Compounds by EPA Method 8270 SIM (Continued)

Lab Sample ID: 10L0158-BSD1 | **Client Sample ID: 10L0158-BSD1**
Matrix: Water - NonPotable | **Prep Type: total**
Analysis Batch: 10L0158 | **Prep Batch: 10L0158_P**

Analyte			Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
1-Methylnaphthalene			5.00	5.00		ug/L		100	55 - 120	8	30
2-Methylnaphthalene			5.00	4.99		ug/L		100	45 - 120	10	30
Acenaphthene			5.00	5.45		ug/L		109	60 - 120	5	30
Acenaphthylene			5.00	5.58		ug/L		112	60 - 120	5	30
Anthracene			5.00	5.42		ug/L		108	60 - 120	0.9	30
Benzo (a) anthracene			5.00	5.64		ug/L		113	60 - 120	6	30
Benzo (a) pyrene			5.00	4.48		ug/L		90	45 - 120	19	30
Benzo (b) fluoranthene			5.00	4.72		ug/L		94	35 - 120	12	30
Benzo (g,h,i) perylene			5.00	4.67	R2	ug/L		93	25 - 120	46	30
Benzo (k) fluoranthene			5.00	4.47		ug/L		89	30 - 120	21	30
Chrysene			5.00	5.74		ug/L		115	55 - 120	6	30
Dibenzo (a,h) anthracene			5.00	4.72	R2	ug/L		94	20 - 120	53	30
Fluoranthene			5.00	5.50		ug/L		110	55 - 120	0.2	30
Fluorene			5.00	5.57		ug/L		111	60 - 120	4	30
Indeno (1,2,3-cd) pyrene			5.00	4.60	R2	ug/L		92	25 - 120	42	30
Naphthalene			5.00	5.20		ug/L		104	55 - 120	8	30
Phenanthrene			5.00	5.34		ug/L		107	45 - 120	0.1	30
Pyrene			5.00	5.77		ug/L		115	60 - 120	2	30

Surrogate	*LCS Dup % Recovery*	*LCS Dup Qualifier*	*Limits*
2-Fluorobiphenyl	*116*		*50 - 120*
Nitrobenzene-d5	*107*		*50 - 120*
Terphenyl-d14	*105*		*50 - 120*

Method: EPA 8270C-SIM - POLYNUCLEAR AROMATIC HYDROCARBONS BY GC/MS

Lab Sample ID: 10L2992-BLK1 | **Client Sample ID: 10L2992-BLK1**
Matrix: Soil | **Prep Type: total**
Analysis Batch: 10L2992 | **Prep Batch: 10L2992_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		30	2.0	ug/kg wet		12/27/10 08:25	12/27/10 14:12	1.00
Acenaphthylene	ND		30	2.0	ug/kg wet		12/27/10 08:25	12/27/10 14:12	1.00
Anthracene	ND		30	2.0	ug/kg wet		12/27/10 08:25	12/27/10 14:12	1.00
Benzo(a)anthracene	ND		30	2.0	ug/kg wet		12/27/10 08:25	12/27/10 14:12	1.00
Benzo(a)pyrene	ND		30	2.0	ug/kg wet		12/27/10 08:25	12/27/10 14:12	1.00
Benzo(b)fluoranthene	ND		30	2.0	ug/kg wet		12/27/10 08:25	12/27/10 14:12	1.00
Benzo(g,h,i)perylene	ND		30	2.0	ug/kg wet		12/27/10 08:25	12/27/10 14:12	1.00
Benzo(k)fluoranthene	ND		30	2.0	ug/kg wet		12/27/10 08:25	12/27/10 14:12	1.00
Chrysene	ND		30	2.0	ug/kg wet		12/27/10 08:25	12/27/10 14:12	1.00
Dibenz(a,h)anthracene	ND		30	2.5	ug/kg wet		12/27/10 08:25	12/27/10 14:12	1.00
Fluoranthene	ND		30	2.0	ug/kg wet		12/27/10 08:25	12/27/10 14:12	1.00
Fluorene	ND		30	2.0	ug/kg wet		12/27/10 08:25	12/27/10 14:12	1.00
Indeno(1,2,3-cd)pyrene	ND		30	2.5	ug/kg wet		12/27/10 08:25	12/27/10 14:12	1.00
Naphthalene	ND		30	3.5	ug/kg wet		12/27/10 08:25	12/27/10 14:12	1.00
Phenanthrene	ND		30	2.0	ug/kg wet		12/27/10 08:25	12/27/10 14:12	1.00
Pyrene	ND		30	2.0	ug/kg wet		12/27/10 08:25	12/27/10 14:12	1.00

Method: EPA 8270C-SIM - POLYNUCLEAR AROMATIC HYDROCARBONS BY GC/MS (Continued)

Lab Sample ID: 10L2992-BLK1 — **Client Sample ID: 10L2992-BLK1**
Matrix: Soil — **Prep Type: total**
Analysis Batch: 10L2992 — **Prep Batch: 10L2992_P**

Surrogate	Blank % Recovery	Blank Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	82		35 - 120	12/27/10 08:25	12/27/10 14:12	1.00
Nitrobenzene-d5	100		30 - 120	12/27/10 08:25	12/27/10 14:12	1.00
Terphenyl-d14	107		40 - 135	12/27/10 08:25	12/27/10 14:12	1.00

Lab Sample ID: 10L2992-BS1 — **Client Sample ID: 10L2992-BS1**
Matrix: Soil — **Prep Type: total**
Analysis Batch: 10L2992 — **Prep Batch: 10L2992_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	66.7	54.5		ug/kg wet		82	50 - 120
Acenaphthylene	66.7	53.4		ug/kg wet		80	50 - 120
Anthracene	66.7	61.1		ug/kg wet		92	55 - 120
Benzo(a)anthracene	66.7	57.8		ug/kg wet		87	55 - 120
Benzo(a)pyrene	66.7	63.8		ug/kg wet		96	50 - 125
Benzo(b)fluoranthene	66.7	53.2		ug/kg wet		80	45 - 125
Benzo(g,h,i)perylene	66.7	58.8		ug/kg wet		88	35 - 130
Benzo(k)fluoranthene	66.7	69.6		ug/kg wet		104	45 - 125
Chrysene	66.7	69.7		ug/kg wet		104	55 - 120
Dibenz(a,h)anthracene	66.7	58.2		ug/kg wet		87	40 - 135
Fluoranthene	66.7	56.5		ug/kg wet		85	55 - 120
Fluorene	66.7	50.6		ug/kg wet		76	55 - 120
Indeno(1,2,3-cd)pyrene	66.7	74.4		ug/kg wet		112	30 - 135
Naphthalene	66.7	53.9		ug/kg wet		81	45 - 120
Phenanthrene	66.7	49.1		ug/kg wet		74	50 - 120
Pyrene	66.7	70.8		ug/kg wet		106	45 - 125

Surrogate	LCS % Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	74		35 - 120
Nitrobenzene-d5	94		30 - 120
Terphenyl-d14	95		40 - 135

Lab Sample ID: 10L2992-MS1 — **Client Sample ID: DU-07**
Matrix: Soil — **Prep Type: total**
Analysis Batch: 10L2992 — **Prep Batch: 10L2992_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	ND		96.8	84.7		ug/kg dry	☼	88	45 - 120
Acenaphthylene	10.3	J	96.8	90.1		ug/kg dry	☼	82	45 - 120
Anthracene	10.2	J	96.8	93.7		ug/kg dry	☼	86	55 - 120
Benzo(a)anthracene	23.3	J	96.8	105		ug/kg dry	☼	84	50 - 120
Benzo(a)pyrene	36.3	J	96.8	102		ug/kg dry	☼	68	45 - 125
Benzo(b)fluoranthene	63.4	M2	96.8	105	M2	ug/kg dry	☼	43	45 - 125
Benzo(g,h,i)perylene	31.6	J	96.8	95.3		ug/kg dry	☼	66	25 - 130
Benzo(k)fluoranthene	25.5	J	96.8	92.9		ug/kg dry	☼	70	45 - 125
Chrysene	55.3	M2	96.8	103	M2	ug/kg dry	☼	50	55 - 120
Dibenz(a,h)anthracene	7.65	J	96.8	91.4		ug/kg dry	☼	87	25 - 135
Fluoranthene	74.9	M2	96.8	93.1	M2	ug/kg dry	☼	19	45 - 120
Fluorene	3.41	J	96.8	82.5		ug/kg dry	☼	82	50 - 120
Indeno(1,2,3-cd)pyrene	34.1	J	96.8	120		ug/kg dry	☼	89	20 - 130

Method: EPA 8270C-SIM - POLYNUCLEAR AROMATIC HYDROCARBONS BY GC/MS (Continued)

Lab Sample ID: 10L2992-MS1 — **Client Sample ID: DU-07**
Matrix: Soil — **Prep Type: total**
Analysis Batch: 10L2992 — **Prep Batch: 10L2992_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits		
Naphthalene	ND		96.8	80.2		ug/kg dry	☼	83	40 - 120		
Phenanthrene	60.3	M2	96.8	91.3	M2	ug/kg dry	☼	32	50 - 120		
Pyrene	72.3		96.8	113		ug/kg dry	☼	42	40 - 125		

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
2-Fluorobiphenyl	*81*		*35 - 120*
Nitrobenzene-d5	*86*		*30 - 120*
Terphenyl-d14	*96*		*40 - 135*

Lab Sample ID: 10L2992-MSD1 — **Client Sample ID: DU-07**
Matrix: Soil — **Prep Type: total**
Analysis Batch: 10L2992 — **Prep Batch: 10L2992_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acenaphthene	ND		96.8	87.2		ug/kg dry	☼	90	45 - 120	3	25
Acenaphthylene	10.3	J	96.8	88.9		ug/kg dry	☼	81	45 - 120	1	20
Anthracene	10.2	J	96.8	98.8		ug/kg dry	☼	92	55 - 120	5	25
Benzo(a)anthracene	23.3	J	96.8	114		ug/kg dry	☼	94	50 - 120	8	25
Benzo(a)pyrene	36.3	J	96.8	110		ug/kg dry	☼	76	45 - 125	7	25
Benzo(b)fluoranthene	63.4	M2	96.8	114		ug/kg dry	☼	52	45 - 125	8	30
Benzo(g,h,i)perylene	31.6	J	96.8	102		ug/kg dry	☼	73	25 - 130	7	30
Benzo(k)fluoranthene	25.5	J	96.8	102		ug/kg dry	☼	79	45 - 125	10	30
Chrysene	55.3	M2	96.8	113		ug/kg dry	☼	60	55 - 120	9	25
Dibenz(a,h)anthracene	7.65	J	96.8	94.6		ug/kg dry	☼	90	25 - 135	3	30
Fluoranthene	74.9	M2	96.8	96.5	M2	ug/kg dry	☼	22	45 - 120	4	25
Fluorene	3.41	J	96.8	91.9		ug/kg dry	☼	91	50 - 120	11	25
Indeno(1,2,3-cd)pyrene	34.1	J	96.8	127		ug/kg dry	☼	96	20 - 130	6	30
Naphthalene	ND		96.8	85.4		ug/kg dry	☼	88	40 - 120	6	25
Phenanthrene	60.3	M2	96.8	97.0	M2	ug/kg dry	☼	38	50 - 120	6	25
Pyrene	72.3		96.8	124		ug/kg dry	☼	53	40 - 125	9	30

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
2-Fluorobiphenyl	*82*		*35 - 120*
Nitrobenzene-d5	*91*		*30 - 120*
Terphenyl-d14	*99*		*40 - 135*

Method: EPA 8081A - ORGANOCHLORINE PESTICIDES (EPA 3510C/8081A)

Lab Sample ID: 10L3249-BLK1 — **Client Sample ID: 10L3249-BLK1**
Matrix: Water — **Prep Type: total**
Analysis Batch: 10L3249 — **Prep Batch: 10L3249_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.10	0.030	ug/l		12/29/10 07:34	12/29/10 18:27	1.00
4,4'-DDE	ND		0.10	0.030	ug/l		12/29/10 07:34	12/29/10 18:27	1.00
4,4'-DDT	ND		0.10	0.030	ug/l		12/29/10 07:34	12/29/10 18:27	1.00
Aldrin	ND		0.10	0.030	ug/l		12/29/10 07:34	12/29/10 18:27	1.00
alpha-BHC	ND		0.10	0.020	ug/l		12/29/10 07:34	12/29/10 18:27	1.00
beta-BHC	ND		0.10	0.040	ug/l		12/29/10 07:34	12/29/10 18:27	1.00

Method: EPA 8081A - ORGANOCHLORINE PESTICIDES (EPA 3510C/8081A) (Continued)

Lab Sample ID: 10L3249-BLK1 — **Client Sample ID: 10L3249-BLK1**
Matrix: Water — **Prep Type: total**
Analysis Batch: 10L3249 — **Prep Batch: 10L3249_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	ND		0.20	0.020	ug/l		12/29/10 07:34	12/29/10 18:27	1.00
Dieldrin	ND		0.10	0.030	ug/l		12/29/10 07:34	12/29/10 18:27	1.00
Endosulfan I	ND		0.10	0.030	ug/l		12/29/10 07:34	12/29/10 18:27	1.00
Endosulfan II	ND		0.10	0.040	ug/l		12/29/10 07:34	12/29/10 18:27	1.00
Endosulfan sulfate	ND		0.20	0.050	ug/l		12/29/10 07:34	12/29/10 18:27	1.00
Endrin	ND		0.10	0.030	ug/l		12/29/10 07:34	12/29/10 18:27	1.00
Endrin aldehyde	ND		0.10	0.050	ug/l		12/29/10 07:34	12/29/10 18:27	1.00
Endrin ketone	ND		0.10	0.040	ug/l		12/29/10 07:34	12/29/10 18:27	1.00
gamma-BHC (Lindane)	ND		0.10	0.030	ug/l		12/29/10 07:34	12/29/10 18:27	1.00
Heptachlor	ND		0.10	0.030	ug/l		12/29/10 07:34	12/29/10 18:27	1.00
Heptachlor epoxide	ND		0.10	0.030	ug/l		12/29/10 07:34	12/29/10 18:27	1.00
Methoxychlor	ND		0.10	0.040	ug/l		12/29/10 07:34	12/29/10 18:27	1.00
Chlordane	ND		1.0	0.30	ug/l		12/29/10 07:34	12/29/10 18:27	1.00
Toxaphene	ND		5.0	0.80	ug/l		12/29/10 07:34	12/29/10 18:27	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*101*		*45 - 120*	*12/29/10 07:34*	*12/29/10 18:27*	*1.00*
Tetrachloro-m-xylene	*68*		*35 - 115*	*12/29/10 07:34*	*12/29/10 18:27*	*1.00*

Lab Sample ID: 10L3249-BS1 — **Client Sample ID: 10L3249-BS1**
Matrix: Water — **Prep Type: total**
Analysis Batch: 10L3249 — **Prep Batch: 10L3249_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
4,4'-DDD	0.500	0.512	MNR1	ug/l		102	55 - 120
4,4'-DDE	0.500	0.426	MNR1	ug/l		85	50 - 120
4,4'-DDT	0.500	0.524	MNR1	ug/l		105	55 - 120
Aldrin	0.500	0.374	MNR1	ug/l		75	40 - 115
alpha-BHC	0.500	0.375	MNR1	ug/l		75	45 - 115
beta-BHC	0.500	0.422	MNR1	ug/l		84	55 - 115
delta-BHC	0.500	0.439	MNR1	ug/l		88	55 - 115
Dieldrin	0.500	0.441	MNR1	ug/l		88	55 - 115
Endosulfan I	0.500	0.398	MNR1	ug/l		80	55 - 115
Endosulfan II	0.500	0.463	MNR1	ug/l		93	55 - 120
Endosulfan sulfate	0.500	0.518	MNR1	ug/l		104	60 - 120
Endrin	0.500	0.451	MNR1	ug/l		90	55 - 115
Endrin aldehyde	0.500	0.480	MNR1	ug/l		96	50 - 120
Endrin ketone	0.500	0.514	MNR1	ug/l		103	55 - 120
gamma-BHC (Lindane)	0.500	0.403	MNR1	ug/l		81	45 - 115
Heptachlor	0.500	0.401	MNR1	ug/l		80	45 - 115
Heptachlor epoxide	0.500	0.388	MNR1	ug/l		78	55 - 115
Methoxychlor	0.500	0.580	MNR1	ug/l		116	60 - 120

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
Decachlorobiphenyl	*95*	*MNR1*	*45 - 120*
Tetrachloro-m-xylene	*63*	*MNR1*	*35 - 115*

Method: EPA 8081A - ORGANOCHLORINE PESTICIDES (EPA 3510C/8081A) (Continued)

Lab Sample ID: 10L3249-BSD1 | **Client Sample ID: 10L3249-BSD1**
Matrix: Water | **Prep Type: total**
Analysis Batch: 10L3249 | **Prep Batch: 10L3249_P**

Analyte			Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
4,4'-DDD			0.500	0.533		ug/l		107	55 - 120	4	30
4,4'-DDE			0.500	0.461		ug/l		92	50 - 120	8	30
4,4'-DDT			0.500	0.543		ug/l		109	55 - 120	4	30
Aldrin			0.500	0.411		ug/l		82	40 - 115	9	30
alpha-BHC			0.500	0.408		ug/l		82	45 - 115	8	30
beta-BHC			0.500	0.467		ug/l		93	55 - 115	10	30
delta-BHC			0.500	0.488		ug/l		98	55 - 115	11	30
Dieldrin			0.500	0.476		ug/l		95	55 - 115	8	30
Endosulfan I			0.500	0.430		ug/l		86	55 - 115	8	30
Endosulfan II			0.500	0.493		ug/l		99	55 - 120	6	30
Endosulfan sulfate			0.500	0.537		ug/l		107	60 - 120	4	30
Endrin			0.500	0.483		ug/l		97	55 - 115	7	30
Endrin aldehyde			0.500	0.494		ug/l		99	50 - 120	3	30
Endrin ketone			0.500	0.527		ug/l		105	55 - 120	3	30
gamma-BHC (Lindane)			0.500	0.441		ug/l		88	45 - 115	9	30
Heptachlor			0.500	0.439		ug/l		88	45 - 115	9	30
Heptachlor epoxide			0.500	0.425		ug/l		85	55 - 115	9	30
Methoxychlor			0.500	0.578		ug/l		116	60 - 120	0.4	30

Surrogate	*LCS Dup % Recovery*	*LCS Dup Qualifier*	*Limits*
Decachlorobiphenyl	*97*		*45 - 120*
Tetrachloro-m-xylene	*69*		*35 - 115*

Lab Sample ID: 11B0583-BLK1 | **Client Sample ID: 11B0583-BLK1**
Matrix: Soil | **Prep Type: total**
Analysis Batch: 11B0583 | **Prep Batch: 11B0583_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	1.5	ug/kg		02/04/11 09:50	02/07/11 16:20	1.00
4,4'-DDE	ND		5.0	1.5	ug/kg		02/04/11 09:50	02/07/11 16:20	1.00
4,4'-DDT	ND		5.0	1.5	ug/kg		02/04/11 09:50	02/07/11 16:20	1.00
Aldrin	ND		5.0	1.5	ug/kg		02/04/11 09:50	02/07/11 16:20	1.00
alpha-BHC	ND		5.0	1.5	ug/kg		02/04/11 09:50	02/07/11 16:20	1.00
beta-BHC	ND		5.0	1.5	ug/kg		02/04/11 09:50	02/07/11 16:20	1.00
delta-BHC	ND		10	1.5	ug/kg		02/04/11 09:50	02/07/11 16:20	1.00
Dieldrin	ND		5.0	1.5	ug/kg		02/04/11 09:50	02/07/11 16:20	1.00
Endosulfan I	ND		5.0	1.5	ug/kg		02/04/11 09:50	02/07/11 16:20	1.00
Endosulfan II	ND		5.0	1.5	ug/kg		02/04/11 09:50	02/07/11 16:20	1.00
Endosulfan sulfate	ND		10	2.0	ug/kg		02/04/11 09:50	02/07/11 16:20	1.00
Endrin	ND		5.0	1.5	ug/kg		02/04/11 09:50	02/07/11 16:20	1.00
Endrin aldehyde	ND		5.0	1.5	ug/kg		02/04/11 09:50	02/07/11 16:20	1.00
Endrin ketone	ND		5.0	2.0	ug/kg		02/04/11 09:50	02/07/11 16:20	1.00
gamma-BHC (Lindane)	ND		5.0	1.5	ug/kg		02/04/11 09:50	02/07/11 16:20	1.00
Heptachlor	ND		5.0	2.0	ug/kg		02/04/11 09:50	02/07/11 16:20	1.00
Heptachlor epoxide	ND		5.0	2.0	ug/kg		02/04/11 09:50	02/07/11 16:20	1.00
Methoxychlor	ND		5.0	1.5	ug/kg		02/04/11 09:50	02/07/11 16:20	1.00
Chlordane	ND		50	10	ug/kg		02/04/11 09:50	02/07/11 16:20	1.00
Toxaphene	ND		200	50	ug/kg		02/04/11 09:50	02/07/11 16:20	1.00

Method: EPA 8081A - ORGANOCHLORINE PESTICIDES (EPA 3546/8081A) (Continued)

Lab Sample ID: 11B0583-BLK1 — **Client Sample ID: 11B0583-BLK1**
Matrix: Soil — **Prep Type: total**
Analysis Batch: 11B0583 — **Prep Batch: 11B0583_P**

Surrogate	Blank % Recovery	Blank Qualifier	Limits	Prepared	Analyzed	Dil Fac
Decachlorobiphenyl	89		45 - 120	02/04/11 09:50	02/07/11 16:20	1.00
Tetrachloro-m-xylene	74		35 - 115	02/04/11 09:50	02/07/11 16:20	1.00

Lab Sample ID: 11B0583-BS1 — **Client Sample ID: 11B0583-BS1**
Matrix: Soil — **Prep Type: total**
Analysis Batch: 11B0583 — **Prep Batch: 11B0583_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
4,4'-DDD	33.3	34.6		ug/kg		104	60 - 120
4,4'-DDE	33.3	34.7		ug/kg		104	60 - 120
4,4'-DDT	33.3	35.4		ug/kg		106	65 - 120
Aldrin	33.3	35.3		ug/kg		106	50 - 115
alpha-BHC	33.3	33.6		ug/kg		101	60 - 115
beta-BHC	33.3	33.4		ug/kg		100	60 - 115
delta-BHC	33.3	33.5		ug/kg		101	60 - 115
Dieldrin	33.3	37.0		ug/kg		111	65 - 115
Endosulfan I	33.3	35.7		ug/kg		107	40 - 120
Endosulfan II	33.3	34.4		ug/kg		103	55 - 120
Endosulfan sulfate	33.3	29.3		ug/kg		88	65 - 115
Endrin	33.3	36.2		ug/kg		109	55 - 120
Endrin aldehyde	33.3	25.6		ug/kg		77	55 - 115
Endrin ketone	33.3	32.3		ug/kg		97	65 - 115
gamma-BHC (Lindane)	33.3	34.0		ug/kg		102	55 - 115
Heptachlor	33.3	34.9		ug/kg		105	55 - 115
Heptachlor epoxide	33.3	35.5		ug/kg		107	55 - 115
Methoxychlor	33.3	35.1		ug/kg		105	65 - 120

Surrogate	LCS % Recovery	LCS Qualifier	Limits
Decachlorobiphenyl	100		45 - 120
Tetrachloro-m-xylene	91		35 - 115

Lab Sample ID: 11B0583-MS1 — **Client Sample ID: DU-13-4**
Matrix: Soil — **Prep Type: total**
Analysis Batch: 11B0583 — **Prep Batch: 11B0583_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
4,4'-DDD	ND	H-1, RL4	49.7	40.7		ug/kg		82	40 - 130
4,4'-DDE	ND	H-1, RL4	49.7	40.9		ug/kg		82	35 - 130
4,4'-DDT	ND	H-1, RL4	49.7	42.5		ug/kg		86	35 - 130
Aldrin	ND	H-1, RL4	49.7	38.9		ug/kg		78	40 - 115
alpha-BHC	ND	H-1, RL4	49.7	42.4		ug/kg		85	40 - 115
beta-BHC	ND	H-1, RL4	49.7	40.6		ug/kg		82	40 - 120
delta-BHC	2.68	H-1, RL4 J	49.7	38.6		ug/kg		72	45 - 120
Dieldrin	ND	H-1, RL4	49.7	39.8		ug/kg		80	40 - 125
Endosulfan I	ND	H-1, RL4	49.7	37.3		ug/kg		75	40 - 120
Endosulfan II	ND	H-1, RL4	49.7	36.6		ug/kg		74	40 - 125
Endosulfan sulfate	ND	H-1, RL4	49.7	26.3		ug/kg		53	45 - 120
Endrin	ND	H-1, RL4	49.7	41.6		ug/kg		84	45 - 125
Endrin aldehyde	ND	H-1, RL4	49.7	18.7		ug/kg		38	30 - 120

Method: EPA 8081A - ORGANOCHLORINE PESTICIDES (EPA 3546/8081A) (Continued)

Lab Sample ID: 11B0583-MS1 — **Client Sample ID: DU-13-4**
Matrix: Soil — **Prep Type: total**
Analysis Batch: 11B0583 — **Prep Batch: 11B0583_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits		
Endrin ketone	ND	H-1, RL4	49.7	33.1		ug/kg		67	40 - 120		
gamma-BHC (Lindane)	ND	H-1, RL4	49.7	40.1		ug/kg		81	40 - 120		
Heptachlor	ND	H-1, RL4	49.7	37.0		ug/kg		75	40 - 115		
Heptachlor epoxide	ND	H-1, RL4	49.7	40.7		ug/kg		82	45 - 115		
Methoxychlor	ND	H-1, RL4	49.7	40.1		ug/kg		81	40 - 135		

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
Decachlorobiphenyl	*60*		*45 - 120*
Tetrachloro-m-xylene	*67*		*35 - 115*

Lab Sample ID: 11B0583-MSD1 — **Client Sample ID: DU-13-4**
Matrix: Soil — **Prep Type: total**
Analysis Batch: 11B0583 — **Prep Batch: 11B0583_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND	H-1, RL4	49.7	41.3		ug/kg		83	40 - 130	1	30
4,4'-DDE	ND	H-1, RL4	49.7	40.8		ug/kg		82	35 - 130	0.2	30
4,4'-DDT	ND	H-1, RL4	49.7	43.8		ug/kg		88	35 - 130	3	30
Aldrin	ND	H-1, RL4	49.7	39.7		ug/kg		80	40 - 115	2	30
alpha-BHC	ND	H-1, RL4	49.7	43.4		ug/kg		87	40 - 115	2	30
beta-BHC	ND	H-1, RL4	49.7	41.7		ug/kg		84	40 - 120	3	30
delta-BHC	2.68	H-1, RL4 J	49.7	39.8		ug/kg		75	45 - 120	3	30
Dieldrin	ND	H-1, RL4	49.7	39.7		ug/kg		80	40 - 125	0.3	30
Endosulfan I	ND	H-1, RL4	49.7	36.9		ug/kg		74	40 - 120	1	30
Endosulfan II	ND	H-1, RL4	49.7	37.2		ug/kg		75	40 - 125	2	30
Endosulfan sulfate	ND	H-1, RL4	49.7	27.1		ug/kg		55	45 - 120	3	30
Endrin	ND	H-1, RL4	49.7	42.0		ug/kg		85	45 - 125	0.9	30
Endrin aldehyde	ND	H-1, RL4	49.7	19.3		ug/kg		39	30 - 120	3	30
Endrin ketone	ND	H-1, RL4	49.7	30.5		ug/kg		62	40 - 120	8	30
gamma-BHC (Lindane)	ND	H-1, RL4	49.7	40.7		ug/kg		82	40 - 120	2	30
Heptachlor	ND	H-1, RL4	49.7	37.9		ug/kg		76	40 - 115	2	30
Heptachlor epoxide	ND	H-1, RL4	49.7	41.7		ug/kg		84	45 - 115	3	30
Methoxychlor	ND	H-1, RL4	49.7	41.0		ug/kg		83	40 - 135	2	30

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
Decachlorobiphenyl	*61*		*45 - 120*
Tetrachloro-m-xylene	*68*		*35 - 115*

Lab Sample ID: 11B3315-BLK1 — **Client Sample ID: 11B3315-BLK1**
Matrix: Soil — **Prep Type: total**
Analysis Batch: 11B3315 — **Prep Batch: 11B3315_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	1.5	ug/kg		02/25/11 14:58	02/28/11 03:03	1.00
4,4'-DDE	ND		5.0	1.5	ug/kg		02/25/11 14:58	02/28/11 03:03	1.00
4,4'-DDT	ND		5.0	1.5	ug/kg		02/25/11 14:58	02/28/11 03:03	1.00
Aldrin	ND		5.0	1.5	ug/kg		02/25/11 14:58	02/28/11 03:03	1.00
alpha-BHC	ND		5.0	1.5	ug/kg		02/25/11 14:58	02/28/11 03:03	1.00
beta-BHC	ND		5.0	1.5	ug/kg		02/25/11 14:58	02/28/11 03:03	1.00

Method: EPA 8081A - ORGANOCHLORINE PESTICIDES (EPA 3546/8081A) (Continued)

Lab Sample ID: 11B3315-BLK1 — **Client Sample ID: 11B3315-BLK1**
Matrix: Soil — **Prep Type: total**
Analysis Batch: 11B3315 — **Prep Batch: 11B3315_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	ND		10	1.5	ug/kg		02/25/11 14:58	02/28/11 03:03	1.00
Dieldrin	ND		5.0	1.5	ug/kg		02/25/11 14:58	02/28/11 03:03	1.00
Endosulfan I	ND		5.0	1.5	ug/kg		02/25/11 14:58	02/28/11 03:03	1.00
Endosulfan II	ND		5.0	1.5	ug/kg		02/25/11 14:58	02/28/11 03:03	1.00
Endosulfan sulfate	ND		10	2.0	ug/kg		02/25/11 14:58	02/28/11 03:03	1.00
Endrin	ND		5.0	1.5	ug/kg		02/25/11 14:58	02/28/11 03:03	1.00
Endrin aldehyde	ND		5.0	1.5	ug/kg		02/25/11 14:58	02/28/11 03:03	1.00
Endrin ketone	ND		5.0	2.0	ug/kg		02/25/11 14:58	02/28/11 03:03	1.00
gamma-BHC (Lindane)	ND		5.0	1.5	ug/kg		02/25/11 14:58	02/28/11 03:03	1.00
Heptachlor	ND		5.0	2.0	ug/kg		02/25/11 14:58	02/28/11 03:03	1.00
Heptachlor epoxide	ND		5.0	2.0	ug/kg		02/25/11 14:58	02/28/11 03:03	1.00
Methoxychlor	ND		5.0	1.5	ug/kg		02/25/11 14:58	02/28/11 03:03	1.00
Chlordane	ND		50	10	ug/kg		02/25/11 14:58	02/28/11 03:03	1.00
Toxaphene	ND		200	50	ug/kg		02/25/11 14:58	02/28/11 03:03	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*91*		*45 - 120*	*02/25/11 14:58*	*02/28/11 03:03*	*1.00*
Tetrachloro-m-xylene	*87*		*35 - 115*	*02/25/11 14:58*	*02/28/11 03:03*	*1.00*

Lab Sample ID: 11B3315-BS1 — **Client Sample ID: 11B3315-BS1**
Matrix: Soil — **Prep Type: total**
Analysis Batch: 11B3315 — **Prep Batch: 11B3315_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
4,4'-DDD	33.3	34.1	MNR	ug/kg		102	60 - 120
4,4'-DDE	33.3	34.9	MNR	ug/kg		105	60 - 120
4,4'-DDT	33.3	37.2	MNR	ug/kg		112	65 - 120
Aldrin	33.3	29.3	MNR	ug/kg		88	50 - 115
alpha-BHC	33.3	33.2	MNR	ug/kg		99	60 - 115
beta-BHC	33.3	33.3	MNR	ug/kg		100	60 - 115
delta-BHC	33.3	32.5	MNR	ug/kg		97	60 - 115
Dieldrin	33.3	34.3	MNR	ug/kg		103	65 - 115
Endosulfan I	33.3	33.7	MNR	ug/kg		101	40 - 120
Endosulfan II	33.3	34.0	MNR	ug/kg		102	55 - 120
Endosulfan sulfate	33.3	32.2	MNR	ug/kg		97	65 - 115
Endrin	33.3	36.0	MNR	ug/kg		108	55 - 120
Endrin aldehyde	33.3	33.3	MNR	ug/kg		100	55 - 115
Endrin ketone	33.3	33.0	MNR	ug/kg		99	65 - 115
gamma-BHC (Lindane)	33.3	33.5	MNR	ug/kg		100	55 - 115
Heptachlor	33.3	34.3	MNR	ug/kg		103	55 - 115
Heptachlor epoxide	33.3	33.8	MNR	ug/kg		101	55 - 115
Methoxychlor	33.3	35.7	MNR	ug/kg		107	65 - 120

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
Decachlorobiphenyl	*96*	*MNR*	*45 - 120*
Tetrachloro-m-xylene	*89*	*MNR*	*35 - 115*

Method: 8290 - Dioxins/Furans, HRGC/HRMS (8290)

Lab Sample ID: G1A050000232B
Matrix: Solid
Analysis Batch: 1005232

Client Sample ID: INTRA-LAB BLANK
Prep Type: Total
Prep Batch: 1005232_P

Analyte	Result	Qualifier	RL	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		2.0	0.070	1		pg/g		01/05/11 18:00	01/10/11 16:03	2
Total TCDD	ND		2.0	0.070			pg/g		01/05/11 18:00	01/10/11 16:03	2
1,2,3,7,8-PeCDD	ND		10	0.12	0.5		pg/g		01/05/11 18:00	01/10/11 16:03	2
Total PeCDD	ND		10	0.12			pg/g		01/05/11 18:00	01/10/11 16:03	2
1,2,3,4,7,8-HxCDD	ND		10	0.020	0.1		pg/g		01/05/11 18:00	01/10/11 16:03	2
1,2,3,6,7,8-HxCDD	ND		10	0.018	0.1		pg/g		01/05/11 18:00	01/10/11 16:03	2
1,2,3,7,8,9-HxCDD	ND		10	0.018	0.1		pg/g		01/05/11 18:00	01/10/11 16:03	2
Total HxCDD	ND		10	0.018			pg/g		01/05/11 18:00	01/10/11 16:03	2
1,2,3,4,6,7,8-HpCDD	ND		10	0.018	0.01		pg/g		01/05/11 18:00	01/10/11 16:03	2
Total HpCDD	ND		10	0.018			pg/g		01/05/11 18:00	01/10/11 16:03	2
OCDD	ND		20	0.036	0.001		pg/g		01/05/11 18:00	01/10/11 16:03	2
2,3,7,8-TCDF	ND		2.0	0.048	0.1		pg/g		01/05/11 18:00	01/10/11 16:03	2
Total TCDF	ND		2.0	0.048			pg/g		01/05/11 18:00	01/10/11 16:03	2
1,2,3,7,8-PeCDF	ND		10	0.092	0.05		pg/g		01/05/11 18:00	01/10/11 16:03	2
2,3,4,7,8-PeCDF	ND		10	0.095	0.5		pg/g		01/05/11 18:00	01/10/11 16:03	2
Total PeCDF	ND		10	0.094			pg/g		01/05/11 18:00	01/10/11 16:03	2
1,2,3,4,7,8-HxCDF	ND		10	0.015	0.1		pg/g		01/05/11 18:00	01/10/11 16:03	2
1,2,3,6,7,8-HxCDF	ND		10	0.015	0.1		pg/g		01/05/11 18:00	01/10/11 16:03	2
2,3,4,6,7,8-HxCDF	ND		10	0.015	0.1		pg/g		01/05/11 18:00	01/10/11 16:03	2
1,2,3,7,8,9-HxCDF	ND		10	0.017	0.1		pg/g		01/05/11 18:00	01/10/11 16:03	2
Total HxCDF	ND		10	0.015			pg/g		01/05/11 18:00	01/10/11 16:03	2
1,2,3,4,6,7,8-HpCDF	ND		10	0.099	0.01		pg/g		01/05/11 18:00	01/10/11 16:03	2
1,2,3,4,7,8,9-HpCDF	ND		10	0.12	0.01		pg/g		01/05/11 18:00	01/10/11 16:03	2
Total HpCDF	ND		10	0.11			pg/g		01/05/11 18:00	01/10/11 16:03	2
OCDF	ND		20	0.088	0.001		pg/g		01/05/11 18:00	01/10/11 16:03	2
Total TEQ						**0.00**					

Internal Standard	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*82*		*40 - 135*	*01/05/11 18:00*	*01/10/11 16:03*	*2*
13C-1,2,3,7,8-PeCDD	*87*		*40 - 135*	*01/05/11 18:00*	*01/10/11 16:03*	*2*
13C-1,2,3,6,7,8-HxCDD	*91*		*40 - 135*	*01/05/11 18:00*	*01/10/11 16:03*	*2*
13C-1,2,3,4,6,7,8-HpCDD	*84*		*40 - 135*	*01/05/11 18:00*	*01/10/11 16:03*	*2*
13C-OCDD	*75*		*40 - 135*	*01/05/11 18:00*	*01/10/11 16:03*	*2*
13C-2,3,7,8-TCDF	*77*		*40 - 135*	*01/05/11 18:00*	*01/10/11 16:03*	*2*
13C-1,2,3,7,8-PeCDF	*90*		*40 - 135*	*01/05/11 18:00*	*01/10/11 16:03*	*2*
13C-1,2,3,4,7,8-HxCDF	*70*		*40 - 135*	*01/05/11 18:00*	*01/10/11 16:03*	*2*
13C-1,2,3,4,6,7,8-HpCDF	*77*		*40 - 135*	*01/05/11 18:00*	*01/10/11 16:03*	*2*

Lab Sample ID: G1A050000232C
Matrix: Solid
Analysis Batch: 1005232

Client Sample ID: CHECK SAMPLE
Prep Type: Total
Prep Batch: 1005232_P

Analyte	Spike Added	Result	Qualifier	Unit	D	% Rec	% Rec. Limits
2,3,7,8-TCDD	20.0	21.4		pg/g		107	77 - 130
1,2,3,7,8-PeCDD	100	112		pg/g		112	79 - 134
1,2,3,4,7,8-HxCDD	100	89.3		pg/g		89	65 - 144
1,2,3,6,7,8-HxCDD	100	98.9		pg/g		99	73 - 147
1,2,3,7,8,9-HxCDD	100	98.1		pg/g		98	80 - 143
1,2,3,4,6,7,8-HpCDD	100	104		pg/g		104	86 - 134

Method: 8290 - Dioxins/Furans, HRGC/HRMS (8290) (Continued)

Lab Sample ID: G1A050000232C — **Client Sample ID: CHECK SAMPLE**
Matrix: Solid — **Prep Type: Total**
Analysis Batch: 1005232 — **Prep Batch: 1005232_P**

Analyte	Spike Added	Result	Qualifier	Unit	D	% Rec	% Rec. Limits
OCDD	200	204		pg/g		102	80 - 137
2,3,7,8-TCDF	20.0	20.8		pg/g		104	79 - 137
1,2,3,7,8-PeCDF	100	103		pg/g		103	81 - 134
2,3,4,7,8-PeCDF	100	101		pg/g		101	76 - 132
1,2,3,4,7,8-HxCDF	100	105		pg/g		105	72 - 140
1,2,3,6,7,8-HxCDF	100	112		pg/g		112	63 - 152
2,3,4,6,7,8-HxCDF	100	111		pg/g		111	72 - 151
1,2,3,7,8,9-HxCDF	100	109		pg/g		109	72 - 152
1,2,3,4,6,7,8-HpCDF	100	113		pg/g		113	81 - 137
1,2,3,4,7,8,9-HpCDF	100	120		pg/g		120	79 - 139
OCDF	200	202		pg/g		101	75 - 141

Internal Standard	*% Recovery*	*Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*89*		*40 - 135*
13C-1,2,3,7,8-PeCDD	*95*		*40 - 135*
13C-1,2,3,6,7,8-HxCDD	*98*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDD	*94*		*40 - 135*
13C-OCDD	*81*		*40 - 135*
13C-2,3,7,8-TCDF	*83*		*40 - 135*
13C-1,2,3,7,8-PeCDF	*95*		*40 - 135*
13C-1,2,3,4,7,8-HxCDF	*79*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDF	*84*		*40 - 135*

Lab Sample ID: G1A070000091B — **Client Sample ID: INTRA-LAB BLANK**
Matrix: Water — **Prep Type: Total**
Analysis Batch: 1007091 — **Prep Batch: 1007091_P**

Analyte	Result	Qualifier	RL	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		10	0.96	1		pg/L		01/07/11 09:00	01/10/11 23:28	1
Total TCDD	ND		10	0.96			pg/L		01/07/11 09:00	01/10/11 23:28	1
1,2,3,7,8-PeCDD	ND		50	0.89	0.5		pg/L		01/07/11 09:00	01/10/11 23:28	1
Total PeCDD	ND		50	0.89			pg/L		01/07/11 09:00	01/10/11 23:28	1
1,2,3,4,7,8-HxCDD	ND		50	0.83	0.1		pg/L		01/07/11 09:00	01/10/11 23:28	1
1,2,3,6,7,8-HxCDD	ND		50	0.74	0.1		pg/L		01/07/11 09:00	01/10/11 23:28	1
1,2,3,7,8,9-HxCDD	ND		50	0.73	0.1		pg/L		01/07/11 09:00	01/10/11 23:28	1
Total HxCDD	ND		50	0.76			pg/L		01/07/11 09:00	01/10/11 23:28	1
1,2,3,4,6,7,8-HpCDD	ND		50	1.6	0.01		pg/L		01/07/11 09:00	01/10/11 23:28	1
Total HpCDD	ND		50	1.6			pg/L		01/07/11 09:00	01/10/11 23:28	1
OCDD	ND		100	1.4	0.001		pg/L		01/07/11 09:00	01/10/11 23:28	1
2,3,7,8-TCDF	ND		10	0.17	0.1		pg/L		01/07/11 09:00	01/10/11 23:28	1
Total TCDF	ND		10	0.17			pg/L		01/07/11 09:00	01/10/11 23:28	1
1,2,3,7,8-PeCDF	ND		50	0.70	0.05		pg/L		01/07/11 09:00	01/10/11 23:28	1
2,3,4,7,8-PeCDF	ND		50	0.72	0.5		pg/L		01/07/11 09:00	01/10/11 23:28	1
Total PeCDF	ND		50	0.72			pg/L		01/07/11 09:00	01/10/11 23:28	1
1,2,3,4,7,8-HxCDF	ND		50	0.50	0.1		pg/L		01/07/11 09:00	01/10/11 23:28	1
1,2,3,6,7,8-HxCDF	ND		50	0.48	0.1		pg/L		01/07/11 09:00	01/10/11 23:28	1
2,3,4,6,7,8-HxCDF	ND		50	0.50	0.1		pg/L		01/07/11 09:00	01/10/11 23:28	1
1,2,3,7,8,9-HxCDF	ND		50	0.56	0.1		pg/L		01/07/11 09:00	01/10/11 23:28	1
Total HxCDF	ND		50	0.51			pg/L		01/07/11 09:00	01/10/11 23:28	1

Method: 8290 - Dioxins/Furans, HRGC/HRMS (8290) (Continued)

Lab Sample ID: G1A070000091B
Matrix: Water
Analysis Batch: 1007091

Client Sample ID: INTRA-LAB BLANK
Prep Type: Total
Prep Batch: 1007091_P

Analyte	Result	Qualifier	RL	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,6,7,8-HpCDF	ND		50	1.6	0.01		pg/L		01/07/11 09:00	01/10/11 23:28	1
1,2,3,4,7,8,9-HpCDF	ND		50	1.9	0.01		pg/L		01/07/11 09:00	01/10/11 23:28	1
Total HpCDF	ND		50	1.7			pg/L		01/07/11 09:00	01/10/11 23:28	1
OCDF	ND		100	0.48	0.001		pg/L		01/07/11 09:00	01/10/11 23:28	1
Total TEQ						**0.00**					

Internal Standard	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*69*		*40 - 135*	*01/07/11 09:00*	*01/10/11 23:28*	*1*
13C-1,2,3,7,8-PeCDD	*80*		*40 - 135*	*01/07/11 09:00*	*01/10/11 23:28*	*1*
13C-1,2,3,6,7,8-HxCDD	*87*		*40 - 135*	*01/07/11 09:00*	*01/10/11 23:28*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*80*		*40 - 135*	*01/07/11 09:00*	*01/10/11 23:28*	*1*
13C-OCDD	*72*		*40 - 135*	*01/07/11 09:00*	*01/10/11 23:28*	*1*
13C-2,3,7,8-TCDF	*68*		*40 - 135*	*01/07/11 09:00*	*01/10/11 23:28*	*1*
13C-1,2,3,7,8-PeCDF	*82*		*40 - 135*	*01/07/11 09:00*	*01/10/11 23:28*	*1*
13C-1,2,3,4,7,8-HxCDF	*75*		*40 - 135*	*01/07/11 09:00*	*01/10/11 23:28*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*76*		*40 - 135*	*01/07/11 09:00*	*01/10/11 23:28*	*1*

Lab Sample ID: G1A070000091C
Matrix: Water
Analysis Batch: 1007091

Client Sample ID: CHECK SAMPLE
Prep Type: Total
Prep Batch: 1007091_P

Analyte	Spike Added	Result	Qualifier	Unit	D	% Rec	% Rec. Limits
2,3,7,8-TCDD	200	150		pg/L		75	64 - 142
1,2,3,7,8-PeCDD	1000	781		pg/L		78	71 - 140
1,2,3,4,7,8-HxCDD	1000	669		pg/L		67	56 - 146
1,2,3,6,7,8-HxCDD	1000	678	a	pg/L		68	73 - 144
1,2,3,7,8,9-HxCDD	1000	700	a	pg/L		70	71 - 151
1,2,3,4,6,7,8-HpCDD	1000	700	a	pg/L		70	78 - 139
OCDD	2000	1370	a	pg/L		68	80 - 132
2,3,7,8-TCDF	200	146		pg/L		73	71 - 142
1,2,3,7,8-PeCDF	1000	720	a	pg/L		72	76 - 135
2,3,4,7,8-PeCDF	1000	712	a	pg/L		71	74 - 137
1,2,3,4,7,8-HxCDF	1000	730	a	pg/L		73	75 - 131
1,2,3,6,7,8-HxCDF	1000	756		pg/L		76	76 - 133
2,3,4,6,7,8-HxCDF	1000	797		pg/L		80	80 - 137
1,2,3,7,8,9-HxCDF	1000	757	a	pg/L		76	77 - 142
1,2,3,4,6,7,8-HpCDF	1000	783	a	pg/L		78	79 - 133
1,2,3,4,7,8,9-HpCDF	1000	825	a	pg/L		82	83 - 130
OCDF	2000	1410	a	pg/L		71	72 - 140

Internal Standard	*% Recovery*	*Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*68*		*40 - 135*
13C-1,2,3,7,8-PeCDD	*72*		*40 - 135*
13C-1,2,3,6,7,8-HxCDD	*81*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDD	*80*		*40 - 135*
13C-OCDD	*73*		*40 - 135*
13C-2,3,7,8-TCDF	*67*		*40 - 135*
13C-1,2,3,7,8-PeCDF	*79*		*40 - 135*
13C-1,2,3,4,7,8-HxCDF	*72*		*40 - 135*

Method: 8290 - Dioxins/Furans, HRGC/HRMS (8290) (Continued)

Lab Sample ID: G1A070000091C — **Client Sample ID: CHECK SAMPLE**
Matrix: Water — **Prep Type: Total**
Analysis Batch: 1007091 — **Prep Batch: 1007091_P**

Internal Standard	*% Recovery*	*Qualifier*	*Limits*
13C-1,2,3,4,6,7,8-HpCDF	*73*		*40 - 135*

Method: EPA 6010 - Total Metals by EPA Method 6010/7471

Lab Sample ID: 11A0058-BLK1 — **Client Sample ID: 11A0058-BLK1**
Matrix: Solid/Soil — **Prep Type: total**
Analysis Batch: 11A0058 — **Prep Batch: 11A0058_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10.0	0.0800	mg/kg		01/12/11 14:20	01/14/11 14:49	1.00
Barium	ND		20.0	0.0840	mg/kg		01/12/11 14:20	01/14/11 14:49	1.00
Cadmium	ND		4.00	0.0810	mg/kg		01/12/11 14:20	01/14/11 14:49	1.00
Chromium	ND		10.0	0.0730	mg/kg		01/12/11 14:20	01/14/11 14:49	1.00
Lead	ND		20.0	0.0700	mg/kg		01/12/11 14:20	01/14/11 14:49	1.00
Selenium	0.547	J	20.0	0.0900	mg/kg		01/12/11 14:20	01/14/11 14:49	1.00
Silver	ND		10.0	0.00700	mg/kg		01/12/11 14:20	01/14/11 14:49	1.00

Lab Sample ID: 11A0058-BS1 — **Client Sample ID: 11A0058-BS1**
Matrix: Solid/Soil — **Prep Type: total**
Analysis Batch: 11A0058 — **Prep Batch: 11A0058_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	100	106		mg/kg		106	80 - 120
Barium	100	100		mg/kg		100	80 - 120
Cadmium	100	99.7		mg/kg		100	80 - 120
Chromium	100	96.1		mg/kg		96	80 - 120
Lead	100	94.5		mg/kg		95	80 - 120
Selenium	100	103		mg/kg		103	80 - 120
Silver	10.0	9.48	J	mg/kg		95	80 - 120

Lab Sample ID: 11A0058-MS1 — **Client Sample ID: HTL0134-01**
Matrix: Solid/Soil — **Prep Type: total**
Analysis Batch: 11A0058 — **Prep Batch: 11A0058_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	19.8		93.1	52.8	M1	mg/kg		35	80 - 120
Barium	197		93.1	296		mg/kg		106	80 - 120
Cadmium	1.99		93.1	90.8		mg/kg		95	80 - 120
Chromium	276		93.1	328	M1	mg/kg		55	80 - 120
Lead	32.1		93.1	133		mg/kg		109	80 - 120
Selenium	2.07		93.1	17.8	M1, J	mg/kg		17	80 - 120
Silver	ND		9.31	9.81		mg/kg		105	80 - 120

Lab Sample ID: 11A0058-MSD1 — **Client Sample ID: HTL0134-01**
Matrix: Solid/Soil — **Prep Type: total**
Analysis Batch: 11A0058 — **Prep Batch: 11A0058_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Arsenic	19.8		92.9	56.1	M1	mg/kg		39	80 - 120	6	20
Barium	197		92.9	302		mg/kg		113	80 - 120	2	20

Method: EPA 6010 - Total Metals by EPA Method 6010/7471 (Continued)

Lab Sample ID: 11A0058-MSD1 — **Client Sample ID: HTL0134-01**
Matrix: Solid/Soil — **Prep Type: total**
Analysis Batch: 11A0058 — **Prep Batch: 11A0058_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Cadmium	1.99		92.9	91.3		mg/kg		96	80 - 120	0.6	20
Chromium	276		92.9	331	M1	mg/kg		59	80 - 120	1	20
Lead	32.1		92.9	139		mg/kg		115	80 - 120	5	20
Selenium	2.07		92.9	18.8	M1	mg/kg		18	80 - 120	5	20
Silver	ND		9.29	9.66		mg/kg		104	80 - 120	2	20

Lab Sample ID: 11B0039-BLK1 — **Client Sample ID: 11B0039-BLK1**
Matrix: Solid/Soil — **Prep Type: total**
Analysis Batch: 11B0039 — **Prep Batch: 11B0039_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic Total	0.288	J	1.00	0.0800	mg/kg		02/04/11 10:30	02/04/11 14:26	1.00

Lab Sample ID: 11B0039-BS1 — **Client Sample ID: 11B0039-BS1**
Matrix: Solid/Soil — **Prep Type: total**
Analysis Batch: 11B0039 — **Prep Batch: 11B0039_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic Total	100	91.2		mg/kg		91	80 - 120

Lab Sample ID: 11B0039-MS1 — **Client Sample ID: DU-07**
Matrix: Solid/Soil — **Prep Type: total**
Analysis Batch: 11B0039 — **Prep Batch: 11B0039_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic Total	88.2		99.0	174		mg/kg		86	80 - 120

Lab Sample ID: 11B0039-MSD1 — **Client Sample ID: DU-07**
Matrix: Solid/Soil — **Prep Type: total**
Analysis Batch: 11B0039 — **Prep Batch: 11B0039_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Arsenic Total	88.2		100	179		mg/kg		91	80 - 120	3	20

Method: EPA 6010B - METALS

Lab Sample ID: 10L3274-BLK1 — **Client Sample ID: 10L3274-BLK1**
Matrix: Water — **Prep Type: total**
Analysis Batch: 10L3274 — **Prep Batch: 10L3274_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10	7.0	ug/l		12/29/10 08:55	12/31/10 00:24	1.00
Barium	ND		10	6.0	ug/l		12/29/10 08:55	12/31/10 00:24	1.00
Cadmium	ND		5.0	2.0	ug/l		12/29/10 08:55	12/31/10 00:24	1.00
Chromium	ND		5.0	2.0	ug/l		12/29/10 08:55	12/31/10 00:24	1.00
Lead	ND		5.0	4.0	ug/l		12/29/10 08:55	12/31/10 00:24	1.00
Selenium	ND		10	8.0	ug/l		12/29/10 08:55	12/31/10 00:24	1.00
Silver	ND		10	6.0	ug/l		12/29/10 08:55	12/31/10 00:24	1.00

Method: EPA 6010B - METALS (Continued)

Lab Sample ID: 10L3274-BS1 — **Client Sample ID: 10L3274-BS1**
Matrix: Water — **Prep Type: total**
Analysis Batch: 10L3274 — **Prep Batch: 10L3274_P**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
Arsenic			1000	1000		ug/l		100	80 - 120		
Barium			1000	1040		ug/l		104	80 - 120		
Cadmium			1000	993		ug/l		99	80 - 120		
Chromium			1000	1020		ug/l		102	80 - 120		
Lead			1000	1000		ug/l		100	80 - 120		
Selenium			1000	967		ug/l		97	80 - 120		
Silver			500	492		ug/l		98	80 - 120		

Lab Sample ID: 10L3274-MS1 — **Client Sample ID: ITL2294-01**
Matrix: Water — **Prep Type: total**
Analysis Batch: 10L3274 — **Prep Batch: 10L3274_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits		
Arsenic	ND		1000	1000		ug/l		100	75 - 125		
Barium	ND		1000	1040		ug/l		104	75 - 125		
Cadmium	ND		1000	997		ug/l		100	75 - 125		
Chromium	ND		1000	1030		ug/l		103	75 - 125		
Lead	ND		1000	1000		ug/l		100	75 - 125		
Selenium	ND		1000	955		ug/l		96	75 - 125		
Silver	ND		500	498		ug/l		100	75 - 125		

Lab Sample ID: 10L3274-MSD1 — **Client Sample ID: ITL2294-01**
Matrix: Water — **Prep Type: total**
Analysis Batch: 10L3274 — **Prep Batch: 10L3274_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Arsenic	ND		1000	989		ug/l		99	75 - 125	1	20
Barium	ND		1000	1020		ug/l		102	75 - 125	2	20
Cadmium	ND		1000	977		ug/l		98	75 - 125	2	20
Chromium	ND		1000	1010		ug/l		101	75 - 125	2	20
Lead	ND		1000	990		ug/l		99	75 - 125	2	20
Selenium	ND		1000	954		ug/l		95	75 - 125	0.2	20
Silver	ND		500	488		ug/l		98	75 - 125	2	20

Method: EPA 7470A - METALS

Lab Sample ID: 10L3471-BLK1 — **Client Sample ID: 10L3471-BLK1**
Matrix: Water — **Prep Type: total**
Analysis Batch: 10L3471 — **Prep Batch: 10L3471_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/l		12/30/10 12:44	12/30/10 17:55	1.00

Lab Sample ID: 10L3471-BS1 — **Client Sample ID: 10L3471-BS1**
Matrix: Water — **Prep Type: total**
Analysis Batch: 10L3471 — **Prep Batch: 10L3471_P**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
Mercury			8.00	8.18		ug/l		102	80 - 120		

Method: EPA 7470A - METALS (Continued)

Lab Sample ID: 10L3471-MS1 — **Client Sample ID: ITL2553-01**
Matrix: Water — **Prep Type: total**
Analysis Batch: 10L3471 — **Prep Batch: 10L3471_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits		
Mercury	0.101		8.00	8.08		ug/l		100	70 - 130		

Lab Sample ID: 10L3471-MSD1 — **Client Sample ID: ITL2553-01**
Matrix: Water — **Prep Type: total**
Analysis Batch: 10L3471 — **Prep Batch: 10L3471_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	0.101		8.00	8.03		ug/l		99	70 - 130	0.6	20

Method: EPA 7471 - Total Metals by EPA Method 6010/7471

Lab Sample ID: 11A0014-BLK1 — **Client Sample ID: 11A0014-BLK1**
Matrix: Solid/Soil — **Prep Type: total**
Analysis Batch: 11A0014 — **Prep Batch: 11A0014_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00500	0.000100	mg/kg wet		01/04/11 10:23	01/04/11 15:57	1.00

Lab Sample ID: 11A0014-BS1 — **Client Sample ID: 11A0014-BS1**
Matrix: Solid/Soil — **Prep Type: total**
Analysis Batch: 11A0014 — **Prep Batch: 11A0014_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
Mercury	0.524	0.563		mg/kg wet		108	80 - 120		

Lab Sample ID: 11A0014-MS1 — **Client Sample ID: DU-07**
Matrix: Solid/Soil — **Prep Type: total**
Analysis Batch: 11A0014 — **Prep Batch: 11A0014_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits		
Mercury	0.569		0.761	1.43		mg/kg dry	☼	113	75 - 125		

Lab Sample ID: 11A0014-MSD1 — **Client Sample ID: DU-07**
Matrix: Solid/Soil — **Prep Type: total**
Analysis Batch: 11A0014 — **Prep Batch: 11A0014_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	0.569		0.740	1.38		mg/kg dry	☼	109	75 - 125	4	20

GCMS Semivolatiles

Analysis Batch: 10L0158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
10L0158-BLK1	10L0158-BLK1	total	Water - NonPotable	EPA 8270 SIM	10L0158_P
10L0158-BS1	10L0158-BS1	total	Water - NonPotable	EPA 8270 SIM	10L0158_P
10L0158-BSD1	10L0158-BSD1	total	Water - NonPotable	EPA 8270 SIM	10L0158_P
HTL0133-05	EQ-1	total	Water - NonPotable	EPA 8270 SIM	10L0158_P
HTL0133-10	EQ-2	total	Water - NonPotable	EPA 8270 SIM	10L0158_P
HTL0133-13	EQ-3	total	Water - NonPotable	EPA 8270 SIM	10L0158_P
HTL0133-16	TS-1	total	Water - NonPotable	EPA 8270 SIM	10L0158_P
HTL0133-16	TS-1	total	Water - NonPotable	EPA 8270 SIM	10L0158_P

Prep Batch: 10L0158_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
10L0158-BLK1	10L0158-BLK1	total	Water - NonPotable	EPA 3510 MS	
10L0158-BS1	10L0158-BS1	total	Water - NonPotable	EPA 3510 MS	
10L0158-BSD1	10L0158-BSD1	total	Water - NonPotable	EPA 3510 MS	
HTL0133-05	EQ-1	total	Water - NonPotable	EPA 3510 MS	
HTL0133-10	EQ-2	total	Water - NonPotable	EPA 3510 MS	
HTL0133-13	EQ-3	total	Water - NonPotable	EPA 3510 MS	
HTL0133-16	TS-1	total	Water - NonPotable	EPA 3510 MS	
HTL0133-16	TS-1	total	Water - NonPotable	EPA 3510 MS	

Analysis Batch: 11B0044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11B0044-BLK1	11B0044-BLK1	total	Solid/Soil	EPA 8270	11B0044_P
11B0044-BS1	11B0044-BS1	total	Solid/Soil	EPA 8270	11B0044_P
11B0044-MS1	DU-9-2	total	Solid/Soil	EPA 8270	11B0044_P
11B0044-MSD1	DU-9-2	total	Solid/Soil	EPA 8270	11B0044_P
HTL0133-01	DU-07	total	Solid/Soil	EPA 8270	11B0044_P
HTL0133-02	DU-8	total	Solid/Soil	EPA 8270	11B0044_P
HTL0133-04	DU-19	total	Solid/Soil	EPA 8270	11B0044_P
HTL0133-06	DU-10	total	Solid/Soil	EPA 8270	11B0044_P
HTL0133-07	DU-5-2	total	Solid/Soil	EPA 8270	11B0044_P
HTL0133-08	DU-6-2	total	Solid/Soil	EPA 8270	11B0044_P
HTL0133-11	DU-13-4	total	Solid/Soil	EPA 8270	11B0044_P
HTL0133-14	DU-11	total	Solid/Soil	EPA 8270	11B0044_P
HTL0133-15	DU-20	total	Solid/Soil	EPA 8270	11B0044_P
HTL0133-03	DU-18	total	Solid/Soil	EPA 8270	11B0044_P
HTL0133-12	DU-12-4	total	Solid/Soil	EPA 8270	11B0044_P
HTL0133-09	DU-9-2	total	Solid/Soil	EPA 8270	11B0044_P

Prep Batch: 11B0044_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11B0044-BLK1	11B0044-BLK1	total	Solid/Soil	EPA 3550 MS	
11B0044-BS1	11B0044-BS1	total	Solid/Soil	EPA 3550 MS	
11B0044-MS1	DU-9-2	total	Solid/Soil	EPA 3550 MS	

GCMS Semivolatiles (Continued)

Prep Batch: 11B0044_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11B0044-MSD1	DU-9-2	total	Solid/Soil	EPA 3550 MS	
HTL0133-01	DU-07	total	Solid/Soil	EPA 3550 MS	
HTL0133-02	DU-8	total	Solid/Soil	EPA 3550 MS	
HTL0133-04	DU-19	total	Solid/Soil	EPA 3550 MS	
HTL0133-06	DU-10	total	Solid/Soil	EPA 3550 MS	
HTL0133-07	DU-5-2	total	Solid/Soil	EPA 3550 MS	
HTL0133-08	DU-6-2	total	Solid/Soil	EPA 3550 MS	
HTL0133-11	DU-13-4	total	Solid/Soil	EPA 3550 MS	
HTL0133-14	DU-11	total	Solid/Soil	EPA 3550 MS	
HTL0133-15	DU-20	total	Solid/Soil	EPA 3550 MS	
HTL0133-03	DU-18	total	Solid/Soil	EPA 3550 MS	
HTL0133-12	DU-12-4	total	Solid/Soil	EPA 3550 MS	
HTL0133-09	DU-9-2	total	Solid/Soil	EPA 3550 MS	

GCMS-Semivolatiles

Analysis Batch: 10L2992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HTL0133-01	DU-07	total	Solid/Soil	EPA 8270C-SIM	10L2992_P
10L2992-BLK1	10L2992-BLK1	total	Soil	EPA 8270C-SIM	10L2992_P
10L2992-BS1	10L2992-BS1	total	Soil	EPA 8270C-SIM	10L2992_P
HTL0133-01	DU-07	total	Solid/Soil	EPA 8270C-SIM	10L2992_P
10L2992-MS1	DU-07	total	Soil	EPA 8270C-SIM	10L2992_P
10L2992-MSD1	DU-07	total	Soil	EPA 8270C-SIM	10L2992_P
HTL0133-02	DU-8	total	Solid/Soil	EPA 8270C-SIM	10L2992_P
HTL0133-03	DU-18	total	Solid/Soil	EPA 8270C-SIM	10L2992_P
HTL0133-04	DU-19	total	Solid/Soil	EPA 8270C-SIM	10L2992_P
HTL0133-06	DU-10	total	Solid/Soil	EPA 8270C-SIM	10L2992_P
HTL0133-07	DU-5-2	total	Solid/Soil	EPA 8270C-SIM	10L2992_P
HTL0133-02	DU-8	total	Solid/Soil	EPA 8270C-SIM	10L2992_P
HTL0133-08	DU-6-2	total	Solid/Soil	EPA 8270C-SIM	10L2992_P
HTL0133-03	DU-18	total	Solid/Soil	EPA 8270C-SIM	10L2992_P
HTL0133-09	DU-9-2	total	Solid/Soil	EPA 8270C-SIM	10L2992_P
HTL0133-04	DU-19	total	Solid/Soil	EPA 8270C-SIM	10L2992_P
HTL0133-11	DU-13-4	total	Solid/Soil	EPA 8270C-SIM	10L2992_P
HTL0133-06	DU-10	total	Solid/Soil	EPA 8270C-SIM	10L2992_P
HTL0133-12	DU-12-4	total	Solid/Soil	EPA 8270C-SIM	10L2992_P
HTL0133-07	DU-5-2	total	Solid/Soil	EPA 8270C-SIM	10L2992_P
HTL0133-14	DU-11	total	Solid/Soil	EPA 8270C-SIM	10L2992_P
HTL0133-08	DU-6-2	total	Solid/Soil	EPA 8270C-SIM	10L2992_P
HTL0133-15	DU-20	total	Solid/Soil	EPA 8270C-SIM	10L2992_P
HTL0133-09	DU-9-2	total	Solid/Soil	EPA 8270C-SIM	10L2992_P
HTL0133-11	DU-13-4	total	Solid/Soil	EPA 8270C-SIM	10L2992_P
HTL0133-12	DU-12-4	total	Solid/Soil	EPA 8270C-SIM	10L2992_P
HTL0133-14	DU-11	total	Solid/Soil	EPA 8270C-SIM	10L2992_P
HTL0133-15	DU-20	total	Solid/Soil	EPA 8270C-SIM	10L2992_P

Prep Batch: 10L2992_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HTL0133-01	DU-07	total	Solid/Soil	EPA 3546	
10L2992-BLK1	10L2992-BLK1	total	Soil	EPA 3546	
10L2992-BS1	10L2992-BS1	total	Soil	EPA 3546	

GCMS-Semivolatiles (Continued)

Prep Batch: 10L2992_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HTL0133-01	DU-07	total	Solid/Soil	EPA 3546	
10L2992-MS1	DU-07	total	Soil	EPA 3546	
10L2992-MSD1	DU-07	total	Soil	EPA 3546	
HTL0133-02	DU-8	total	Solid/Soil	EPA 3546	
HTL0133-03	DU-18	total	Solid/Soil	EPA 3546	
HTL0133-04	DU-19	total	Solid/Soil	EPA 3546	
HTL0133-06	DU-10	total	Solid/Soil	EPA 3546	
HTL0133-07	DU-5-2	total	Solid/Soil	EPA 3546	
HTL0133-02	DU-8	total	Solid/Soil	EPA 3546	
HTL0133-08	DU-6-2	total	Solid/Soil	EPA 3546	
HTL0133-03	DU-18	total	Solid/Soil	EPA 3546	
HTL0133-09	DU-9-2	total	Solid/Soil	EPA 3546	
HTL0133-04	DU-19	total	Solid/Soil	EPA 3546	
HTL0133-11	DU-13-4	total	Solid/Soil	EPA 3546	
HTL0133-06	DU-10	total	Solid/Soil	EPA 3546	
HTL0133-12	DU-12-4	total	Solid/Soil	EPA 3546	
HTL0133-07	DU-5-2	total	Solid/Soil	EPA 3546	
HTL0133-14	DU-11	total	Solid/Soil	EPA 3546	
HTL0133-08	DU-6-2	total	Solid/Soil	EPA 3546	
HTL0133-15	DU-20	total	Solid/Soil	EPA 3546	
HTL0133-09	DU-9-2	total	Solid/Soil	EPA 3546	
HTL0133-11	DU-13-4	total	Solid/Soil	EPA 3546	
HTL0133-12	DU-12-4	total	Solid/Soil	EPA 3546	
HTL0133-14	DU-11	total	Solid/Soil	EPA 3546	
HTL0133-15	DU-20	total	Solid/Soil	EPA 3546	

Pesticides

Analysis Batch: 10L3249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
10L3249-BLK1	10L3249-BLK1	total	Water	EPA 8081A	10L3249_P
HTL0133-05	EQ-1	total	Water - NonPotable	EPA 8081A	10L3249_P
10L3249-BS1	10L3249-BS1	total	Water	EPA 8081A	10L3249_P
HTL0133-13	EQ-3	total	Water - NonPotable	EPA 8081A	10L3249_P
10L3249-BSD1	10L3249-BSD1	total	Water	EPA 8081A	10L3249_P
HTL0133-05	EQ-1	total	Water - NonPotable	EPA 8081A	10L3249_P
HTL0133-13	EQ-3	total	Water - NonPotable	EPA 8081A	10L3249_P
HTL0133-16	TS-1	total	Water - NonPotable	EPA 8081A	10L3249_P
HTL0133-16	TS-1	total	Water - NonPotable	EPA 8081A	10L3249_P

Prep Batch: 10L3249_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
10L3249-BLK1	10L3249-BLK1	total	Water	EPA 3510C	
HTL0133-05	EQ-1	total	Water - NonPotable	EPA 3510C	
10L3249-BS1	10L3249-BS1	total	Water	EPA 3510C	
HTL0133-13	EQ-3	total	Water - NonPotable	EPA 3510C	
10L3249-BSD1	10L3249-BSD1	total	Water	EPA 3510C	

Pesticides (Continued)

Prep Batch: 10L3249_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HTL0133-05	EQ-1	total	Water - NonPotable	EPA 3510C	
HTL0133-13	EQ-3	total	Water - NonPotable	EPA 3510C	
HTL0133-16	TS-1	total	Water - NonPotable	EPA 3510C	
HTL0133-16	TS-1	total	Water - NonPotable	EPA 3510C	

Analysis Batch: 11B0583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HTL0133-11	DU-13-4	total	Solid/Soil	EPA 8081A	11B0583_P
HTL0133-01	DU-07	total	Solid/Soil	EPA 8081A	11B0583_P
HTL0133-02	DU-8	total	Solid/Soil	EPA 8081A	11B0583_P
HTL0133-03	DU-18	total	Solid/Soil	EPA 8081A	11B0583_P
HTL0133-04	DU-19	total	Solid/Soil	EPA 8081A	11B0583_P
11B0583-BLK1	11B0583-BLK1	total	Soil	EPA 8081A	11B0583_P
HTL0133-06	DU-10	total	Solid/Soil	EPA 8081A	11B0583_P
HTL0133-07	DU-5-2	total	Solid/Soil	EPA 8081A	11B0583_P
11B0583-MS1	DU-13-4	total	Soil	EPA 8081A	11B0583_P
HTL0133-08	DU-6-2	total	Solid/Soil	EPA 8081A	11B0583_P
11B0583-MSD1	DU-13-4	total	Soil	EPA 8081A	11B0583_P
HTL0133-09	DU-9-2	total	Solid/Soil	EPA 8081A	11B0583_P
HTL0133-11	DU-13-4	total	Solid/Soil	EPA 8081A	11B0583_P
HTL0133-12	DU-12-4	total	Solid/Soil	EPA 8081A	11B0583_P
HTL0133-01	DU-07	total	Solid/Soil	EPA 8081A	11B0583_P
HTL0133-15	DU-20	total	Solid/Soil	EPA 8081A	11B0583_P
HTL0133-02	DU-8	total	Solid/Soil	EPA 8081A	11B0583_P
HTL0133-03	DU-18	total	Solid/Soil	EPA 8081A	11B0583_P
HTL0133-04	DU-19	total	Solid/Soil	EPA 8081A	11B0583_P
HTL0133-06	DU-10	total	Solid/Soil	EPA 8081A	11B0583_P
HTL0133-07	DU-5-2	total	Solid/Soil	EPA 8081A	11B0583_P
HTL0133-08	DU-6-2	total	Solid/Soil	EPA 8081A	11B0583_P
HTL0133-09	DU-9-2	total	Solid/Soil	EPA 8081A	11B0583_P
HTL0133-12	DU-12-4	total	Solid/Soil	EPA 8081A	11B0583_P
HTL0133-15	DU-20	total	Solid/Soil	EPA 8081A	11B0583_P
11B0583-BS1	11B0583-BS1	total	Soil	EPA 8081A	11B0583_P

Prep Batch: 11B0583_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HTL0133-11	DU-13-4	total	Solid/Soil	EPA 3545	
HTL0133-01	DU-07	total	Solid/Soil	EPA 3545	
HTL0133-02	DU-8	total	Solid/Soil	EPA 3545	
HTL0133-03	DU-18	total	Solid/Soil	EPA 3545	
HTL0133-04	DU-19	total	Solid/Soil	EPA 3545	
11B0583-BLK1	11B0583-BLK1	total	Soil	EPA 3545	
HTL0133-06	DU-10	total	Solid/Soil	EPA 3545	
HTL0133-07	DU-5-2	total	Solid/Soil	EPA 3545	
11B0583-MS1	DU-13-4	total	Soil	EPA 3545	
HTL0133-08	DU-6-2	total	Solid/Soil	EPA 3545	
11B0583-MSD1	DU-13-4	total	Soil	EPA 3545	
HTL0133-09	DU-9-2	total	Solid/Soil	EPA 3545	
HTL0133-11	DU-13-4	total	Solid/Soil	EPA 3545	
HTL0133-12	DU-12-4	total	Solid/Soil	EPA 3545	

Pesticides (Continued)

Prep Batch: 11B0583_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HTL0133-01	DU-07	total	Solid/Soil	EPA 3545	
HTL0133-15	DU-20	total	Solid/Soil	EPA 3545	
HTL0133-02	DU-8	total	Solid/Soil	EPA 3545	
HTL0133-03	DU-18	total	Solid/Soil	EPA 3545	
HTL0133-04	DU-19	total	Solid/Soil	EPA 3545	
HTL0133-06	DU-10	total	Solid/Soil	EPA 3545	
HTL0133-07	DU-5-2	total	Solid/Soil	EPA 3545	
HTL0133-08	DU-6-2	total	Solid/Soil	EPA 3545	
HTL0133-09	DU-9-2	total	Solid/Soil	EPA 3545	
HTL0133-12	DU-12-4	total	Solid/Soil	EPA 3545	
HTL0133-15	DU-20	total	Solid/Soil	EPA 3545	
11B0583-BS1	11B0583-BS1	total	Soil	EPA 3545	

Analysis Batch: 11B3315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HTL0133-14	DU-11	total	Solid/Soil	EPA 8081A	11B3315_P
11B3315-BLK1	11B3315-BLK1	total	Soil	EPA 8081A	11B3315_P
11B3315-BS1	11B3315-BS1	total	Soil	EPA 8081A	11B3315_P
HTL0133-14	DU-11	total	Solid/Soil	EPA 8081A	11B3315_P

Prep Batch: 11B3315_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HTL0133-14	DU-11	total	Solid/Soil	EPA 3546	
11B3315-BLK1	11B3315-BLK1	total	Soil	EPA 3546	
11B3315-BS1	11B3315-BS1	total	Soil	EPA 3546	
HTL0133-14	DU-11	total	Solid/Soil	EPA 3546	

DIOXIN

Analysis Batch: 1005232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
G1A050000232B	INTRA-LAB BLANK	Total	Solid	8290	
G1A050000232C	CHECK SAMPLE	Total	Solid	8290	
HTL0133-01	DU-07	Total	Solid/Soil	8290	
HTL0133-02	DU-8	Total	Solid/Soil	8290	
HTL0133-03	DU-18	Total	Solid/Soil	8290	
HTL0133-04	DU-19	Total	Solid/Soil	8290	
HTL0133-06	DU-10	Total	Solid/Soil	8290	
HTL0133-07	DU-5-2	Total	Solid/Soil	8290	
HTL0133-08	DU-6-2	Total	Solid/Soil	8290	
HTL0133-09	DU-9-2	Total	Solid/Soil	8290	
HTL0133-11	DU-13-4	Total	Solid/Soil	8290	
HTL0133-12	DU-12-4	Total	Solid/Soil	8290	
HTL0133-14	DU-11	Total	Solid/Soil	8290	
HTL0133-15	DU-20	Total	Solid/Soil	8290	

Prep Batch: 1005232_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
G1A050000232B	INTRA-LAB BLANK	Total	Solid	8290	
G1A050000232C	CHECK SAMPLE	Total	Solid	8290	
HTL0133-01	DU-07	Total	Solid/Soil	8290	
HTL0133-02	DU-8	Total	Solid/Soil	8290	

DIOXIN (Continued)

Prep Batch: 1005232_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HTL0133-03	DU-18	Total	Solid/Soil	8290	
HTL0133-04	DU-19	Total	Solid/Soil	8290	
HTL0133-06	DU-10	Total	Solid/Soil	8290	
HTL0133-07	DU-5-2	Total	Solid/Soil	8290	
HTL0133-08	DU-6-2	Total	Solid/Soil	8290	
HTL0133-09	DU-9-2	Total	Solid/Soil	8290	
HTL0133-11	DU-13-4	Total	Solid/Soil	8290	
HTL0133-12	DU-12-4	Total	Solid/Soil	8290	
HTL0133-14	DU-11	Total	Solid/Soil	8290	
HTL0133-15	DU-20	Total	Solid/Soil	8290	

Analysis Batch: 1007091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
G1A070000091B	INTRA-LAB BLANK	Total	Water	8290	
HTL0133-05	EQ-1	Total	Water - NonPotable	8290	
G1A070000091C	CHECK SAMPLE	Total	Water	8290	

Prep Batch: 1007091_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
G1A070000091B	INTRA-LAB BLANK	Total	Water	8290	
HTL0133-05	EQ-1	Total	Water - NonPotable	8290	
G1A070000091C	CHECK SAMPLE	Total	Water	8290	

Metals

Analysis Batch: 10L3274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HTL0133-05	EQ-1	total	Water - NonPotable	EPA 6010B	10L3274_P
HTL0133-10	EQ-2	total	Water - NonPotable	EPA 6010B	10L3274_P
HTL0133-13	EQ-3	total	Water - NonPotable	EPA 6010B	10L3274_P
HTL0133-16	TS-1	total	Water - NonPotable	EPA 6010B	10L3274_P
HTL0133-05	EQ-1	total	Water - NonPotable	EPA 6010B	10L3274_P
HTL0133-10	EQ-2	total	Water - NonPotable	EPA 6010B	10L3274_P
HTL0133-13	EQ-3	total	Water - NonPotable	EPA 6010B	10L3274_P
HTL0133-16	TS-1	total	Water - NonPotable	EPA 6010B	10L3274_P
10L3274-BLK1	10L3274-BLK1	total	Water	EPA 6010B	10L3274_P
10L3274-BS1	10L3274-BS1	total	Water	EPA 6010B	10L3274_P
10L3274-MS1	ITL2294-01	total	Water	EPA 6010B	10L3274_P
10L3274-MSD1	ITL2294-01	total	Water	EPA 6010B	10L3274_P

Prep Batch: 10L3274_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HTL0133-05	EQ-1	total	Water - NonPotable	EPA 3005A ICP	
HTL0133-10	EQ-2	total	Water - NonPotable	EPA 3005A ICP	
HTL0133-13	EQ-3	total	Water - NonPotable	EPA 3005A ICP	

Metals (Continued)

Prep Batch: 10L3274_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HTL0133-16	TS-1	total	Water - NonPotable	EPA 3005A ICP	
HTL0133-05	EQ-1	total	Water - NonPotable	EPA 3005A ICP	
HTL0133-10	EQ-2	total	Water - NonPotable	EPA 3005A ICP	
HTL0133-13	EQ-3	total	Water - NonPotable	EPA 3005A ICP	
HTL0133-16	TS-1	total	Water - NonPotable	EPA 3005A ICP	
10L3274-BLK1	10L3274-BLK1	total	Water	EPA 3005A ICP	
10L3274-BS1	10L3274-BS1	total	Water	EPA 3005A ICP	
10L3274-MS1	ITL2294-01	total	Water	EPA 3005A ICP	
10L3274-MSD1	ITL2294-01	total	Water	EPA 3005A ICP	

Analysis Batch: 10L3471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HTL0133-05	EQ-1	total	Water - NonPotable	EPA 7470A	10L3471_P
HTL0133-10	EQ-2	total	Water - NonPotable	EPA 7470A	10L3471_P
HTL0133-13	EQ-3	total	Water - NonPotable	EPA 7470A	10L3471_P
HTL0133-16	TS-1	total	Water - NonPotable	EPA 7470A	10L3471_P
10L3471-BLK1	10L3471-BLK1	total	Water	EPA 7470A	10L3471_P
10L3471-BS1	10L3471-BS1	total	Water	EPA 7470A	10L3471_P
10L3471-MS1	ITL2553-01	total	Water	EPA 7470A	10L3471_P
10L3471-MSD1	ITL2553-01	total	Water	EPA 7470A	10L3471_P
HTL0133-05	EQ-1	total	Water - NonPotable	EPA 7470A	10L3471_P
HTL0133-10	EQ-2	total	Water - NonPotable	EPA 7470A	10L3471_P
HTL0133-13	EQ-3	total	Water - NonPotable	EPA 7470A	10L3471_P
HTL0133-16	TS-1	total	Water - NonPotable	EPA 7470A	10L3471_P

Prep Batch: 10L3471_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HTL0133-05	EQ-1	total	Water - NonPotable	EPA 7470A Hg	
HTL0133-10	EQ-2	total	Water - NonPotable	EPA 7470A Hg	
HTL0133-13	EQ-3	total	Water - NonPotable	EPA 7470A Hg	
HTL0133-16	TS-1	total	Water - NonPotable	EPA 7470A Hg	
10L3471-BLK1	10L3471-BLK1	total	Water	EPA 7470A Hg	
10L3471-BS1	10L3471-BS1	total	Water	EPA 7470A Hg	
10L3471-MS1	ITL2553-01	total	Water	EPA 7470A Hg	
10L3471-MSD1	ITL2553-01	total	Water	EPA 7470A Hg	
HTL0133-05	EQ-1	total	Water - NonPotable	EPA 7470A Hg	
HTL0133-10	EQ-2	total	Water - NonPotable	EPA 7470A Hg	
HTL0133-13	EQ-3	total	Water - NonPotable	EPA 7470A Hg	
HTL0133-16	TS-1	total	Water - NonPotable	EPA 7470A Hg	

Metals (Continued)

Analysis Batch: 11A0014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11A0014-BLK1	11A0014-BLK1	total	Solid/Soil	EPA 7471	11A0014_P
11A0014-BS1	11A0014-BS1	total	Solid/Soil	EPA 7471	11A0014_P
HTL0133-01	DU-07	total	Solid/Soil	EPA 7471	11A0014_P
11A0014-MS1	DU-07	total	Solid/Soil	EPA 7471	11A0014_P
11A0014-MSD1	DU-07	total	Solid/Soil	EPA 7471	11A0014_P
HTL0133-07	DU-5-2	total	Solid/Soil	EPA 7471	11A0014_P
HTL0133-08	DU-6-2	total	Solid/Soil	EPA 7471	11A0014_P
HTL0133-09	DU-9-2	total	Solid/Soil	EPA 7471	11A0014_P
HTL0133-11	DU-13-4	total	Solid/Soil	EPA 7471	11A0014_P
HTL0133-12	DU-12-4	total	Solid/Soil	EPA 7471	11A0014_P
HTL0133-14	DU-11	total	Solid/Soil	EPA 7471	11A0014_P
HTL0133-15	DU-20	total	Solid/Soil	EPA 7471	11A0014_P
HTL0133-06	DU-10	total	Solid/Soil	EPA 7471	11A0014_P
HTL0133-02	DU-8	total	Solid/Soil	EPA 7471	11A0014_P
HTL0133-03	DU-18	total	Solid/Soil	EPA 7471	11A0014_P
HTL0133-04	DU-19	total	Solid/Soil	EPA 7471	11A0014_P

Prep Batch: 11A0014_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11A0014-BLK1	11A0014-BLK1	total	Solid/Soil	EPA 7471	
11A0014-BS1	11A0014-BS1	total	Solid/Soil	EPA 7471	
HTL0133-01	DU-07	total	Solid/Soil	EPA 7471	
11A0014-MS1	DU-07	total	Solid/Soil	EPA 7471	
11A0014-MSD1	DU-07	total	Solid/Soil	EPA 7471	
HTL0133-07	DU-5-2	total	Solid/Soil	EPA 7471	
HTL0133-08	DU-6-2	total	Solid/Soil	EPA 7471	
HTL0133-09	DU-9-2	total	Solid/Soil	EPA 7471	
HTL0133-11	DU-13-4	total	Solid/Soil	EPA 7471	
HTL0133-12	DU-12-4	total	Solid/Soil	EPA 7471	
HTL0133-14	DU-11	total	Solid/Soil	EPA 7471	
HTL0133-15	DU-20	total	Solid/Soil	EPA 7471	
HTL0133-06	DU-10	total	Solid/Soil	EPA 7471	
HTL0133-02	DU-8	total	Solid/Soil	EPA 7471	
HTL0133-03	DU-18	total	Solid/Soil	EPA 7471	
HTL0133-04	DU-19	total	Solid/Soil	EPA 7471	

Analysis Batch: 11A0058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11A0058-BLK1	11A0058-BLK1	total	Solid/Soil	EPA 6010	11A0058_P
11A0058-BS1	11A0058-BS1	total	Solid/Soil	EPA 6010	11A0058_P
11A0058-MS1	HTL0134-01	total	Solid/Soil	EPA 6010	11A0058_P
11A0058-MSD1	HTL0134-01	total	Solid/Soil	EPA 6010	11A0058_P
HTL0133-01	DU-07	total	Solid/Soil	EPA 6010	11A0058_P
HTL0133-02	DU-8	total	Solid/Soil	EPA 6010	11A0058_P
HTL0133-03	DU-18	total	Solid/Soil	EPA 6010	11A0058_P
HTL0133-04	DU-19	total	Solid/Soil	EPA 6010	11A0058_P
HTL0133-06	DU-10	total	Solid/Soil	EPA 6010	11A0058_P
HTL0133-07	DU-5-2	total	Solid/Soil	EPA 6010	11A0058_P
HTL0133-08	DU-6-2	total	Solid/Soil	EPA 6010	11A0058_P
HTL0133-09	DU-9-2	total	Solid/Soil	EPA 6010	11A0058_P
HTL0133-11	DU-13-4	total	Solid/Soil	EPA 6010	11A0058_P
HTL0133-12	DU-12-4	total	Solid/Soil	EPA 6010	11A0058_P

Metals (Continued)

Analysis Batch: 11A0058 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HTL0133-14	DU-11	total	Solid/Soil	EPA 6010	11A0058_P
HTL0133-15	DU-20	total	Solid/Soil	EPA 6010	11A0058_P
HTL0133-02	DU-8	total	Solid/Soil	EPA 6010	11A0058_P
HTL0133-03	DU-18	total	Solid/Soil	EPA 6010	11A0058_P
HTL0133-04	DU-19	total	Solid/Soil	EPA 6010	11A0058_P
HTL0133-06	DU-10	total	Solid/Soil	EPA 6010	11A0058_P

Prep Batch: 11A0058_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11A0058-BLK1	11A0058-BLK1	total	Solid/Soil	EPA 3050	
11A0058-BS1	11A0058-BS1	total	Solid/Soil	EPA 3050	
11A0058-MS1	HTL0134-01	total	Solid/Soil	EPA 3050	
11A0058-MSD1	HTL0134-01	total	Solid/Soil	EPA 3050	
HTL0133-01	DU-07	total	Solid/Soil	EPA 3050	
HTL0133-02	DU-8	total	Solid/Soil	EPA 3050	
HTL0133-03	DU-18	total	Solid/Soil	EPA 3050	
HTL0133-04	DU-19	total	Solid/Soil	EPA 3050	
HTL0133-06	DU-10	total	Solid/Soil	EPA 3050	
HTL0133-07	DU-5-2	total	Solid/Soil	EPA 3050	
HTL0133-08	DU-6-2	total	Solid/Soil	EPA 3050	
HTL0133-09	DU-9-2	total	Solid/Soil	EPA 3050	
HTL0133-11	DU-13-4	total	Solid/Soil	EPA 3050	
HTL0133-12	DU-12-4	total	Solid/Soil	EPA 3050	
HTL0133-14	DU-11	total	Solid/Soil	EPA 3050	
HTL0133-15	DU-20	total	Solid/Soil	EPA 3050	
HTL0133-02	DU-8	total	Solid/Soil	EPA 3050	
HTL0133-03	DU-18	total	Solid/Soil	EPA 3050	
HTL0133-04	DU-19	total	Solid/Soil	EPA 3050	
HTL0133-06	DU-10	total	Solid/Soil	EPA 3050	

Analysis Batch: 11B0039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11B0039-BLK1	11B0039-BLK1	total	Solid/Soil	EPA 6010	11B0039_P
11B0039-BS1	11B0039-BS1	total	Solid/Soil	EPA 6010	11B0039_P
11B0039-MS1	DU-07	total	Solid/Soil	EPA 6010	11B0039_P
11B0039-MSD1	DU-07	total	Solid/Soil	EPA 6010	11B0039_P
HTL0133-01	DU-07	total	Solid/Soil	EPA 6010	11B0039_P
HTL0133-11	DU-13-4	total	Solid/Soil	EPA 6010	11B0039_P
HTL0133-12	DU-12-4	total	Solid/Soil	EPA 6010	11B0039_P
HTL0133-02	DU-8	total	Solid/Soil	EPA 6010	11B0039_P
HTL0133-04	DU-19	total	Solid/Soil	EPA 6010	11B0039_P
HTL0133-06	DU-10	total	Solid/Soil	EPA 6010	11B0039_P
HTL0133-07	DU-5-2	total	Solid/Soil	EPA 6010	11B0039_P
HTL0133-08	DU-6-2	total	Solid/Soil	EPA 6010	11B0039_P
HTL0133-09	DU-9-2	total	Solid/Soil	EPA 6010	11B0039_P

Prep Batch: 11B0039_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11B0039-BLK1	11B0039-BLK1	total	Solid/Soil	EPA 3050	
11B0039-BS1	11B0039-BS1	total	Solid/Soil	EPA 3050	
11B0039-MS1	DU-07	total	Solid/Soil	EPA 3050	
11B0039-MSD1	DU-07	total	Solid/Soil	EPA 3050	

Metals (Continued)

Prep Batch: 11B0039_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HTL0133-01	DU-07	total	Solid/Soil	EPA 3050	
HTL0133-11	DU-13-4	total	Solid/Soil	EPA 3050	
HTL0133-12	DU-12-4	total	Solid/Soil	EPA 3050	
HTL0133-02	DU-8	total	Solid/Soil	EPA 3050	
HTL0133-04	DU-19	total	Solid/Soil	EPA 3050	
HTL0133-06	DU-10	total	Solid/Soil	EPA 3050	
HTL0133-07	DU-5-2	total	Solid/Soil	EPA 3050	
HTL0133-08	DU-6-2	total	Solid/Soil	EPA 3050	
HTL0133-09	DU-9-2	total	Solid/Soil	EPA 3050	

Analysis Batch: 11B0043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HTL0133-01	DU-07	total	Solid/Soil	SBRC Appendix C Rev. #8	11B0043_P
HTL0133-01	DU-07	total	Solid/Soil	EPA 6010	11B0043_P
HTL0133-02	DU-8	total	Solid/Soil	SBRC Appendix C Rev. #8	11B0043_P
HTL0133-02	DU-8	total	Solid/Soil	EPA 6010	11B0043_P
HTL0133-04	DU-19	total	Solid/Soil	SBRC Appendix C Rev. #8	11B0043_P
HTL0133-04	DU-19	total	Solid/Soil	EPA 6010	11B0043_P
HTL0133-06	DU-10	total	Solid/Soil	SBRC Appendix C Rev. #8	11B0043_P
HTL0133-06	DU-10	total	Solid/Soil	EPA 6010	11B0043_P
HTL0133-07	DU-5-2	total	Solid/Soil	SBRC Appendix C Rev. #8	11B0043_P
HTL0133-07	DU-5-2	total	Solid/Soil	EPA 6010	11B0043_P
HTL0133-08	DU-6-2	total	Solid/Soil	SBRC Appendix C Rev. #8	11B0043_P
HTL0133-08	DU-6-2	total	Solid/Soil	EPA 6010	11B0043_P
HTL0133-09	DU-9-2	total	Solid/Soil	SBRC Appendix C Rev. #8	11B0043_P
HTL0133-09	DU-9-2	total	Solid/Soil	EPA 6010	11B0043_P
HTL0133-11	DU-13-4	total	Solid/Soil	SBRC Appendix C Rev. #8	11B0043_P
HTL0133-11	DU-13-4	total	Solid/Soil	EPA 6010	11B0043_P
HTL0133-12	DU-12-4	total	Solid/Soil	SBRC Appendix C Rev. #8	11B0043_P
HTL0133-12	DU-12-4	total	Solid/Soil	EPA 6010	11B0043_P

Prep Batch: 11B0043_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HTL0133-01	DU-07	total	Solid/Soil	EPA 3050	11B0080
HTL0133-02	DU-8	total	Solid/Soil	EPA 3050	11B0080
HTL0133-04	DU-19	total	Solid/Soil	EPA 3050	11B0080
HTL0133-06	DU-10	total	Solid/Soil	EPA 3050	11B0080
HTL0133-07	DU-5-2	total	Solid/Soil	EPA 3050	11B0080
HTL0133-08	DU-6-2	total	Solid/Soil	EPA 3050	11B0080
HTL0133-09	DU-9-2	total	Solid/Soil	EPA 3050	11B0080
HTL0133-11	DU-13-4	total	Solid/Soil	EPA 3050	11B0080
HTL0133-12	DU-12-4	total	Solid/Soil	EPA 3050	11B0080

Leach Batch: 11B0080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HTL0133-01	DU-07	total	Solid/Soil	TCLP Extraction	
HTL0133-02	DU-8	total	Solid/Soil	TCLP Extraction	

Metals (Continued)

Leach Batch: 11B0080 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HTL0133-04	DU-19	total	Solid/Soil	TCLP Extraction	
HTL0133-06	DU-10	total	Solid/Soil	TCLP Extraction	
HTL0133-07	DU-5-2	total	Solid/Soil	TCLP Extraction	
HTL0133-08	DU-6-2	total	Solid/Soil	TCLP Extraction	
HTL0133-09	DU-9-2	total	Solid/Soil	TCLP Extraction	
HTL0133-11	DU-13-4	total	Solid/Soil	TCLP Extraction	
HTL0133-12	DU-12-4	total	Solid/Soil	TCLP Extraction	

Wet Chemistry

Analysis Batch: 10L3510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HTL0133-01	DU-07	total	Solid/Soil	SM2540B MOD.	10L3510_P
HTL0133-02	DU-8	total	Solid/Soil	SM2540B MOD.	10L3510_P
HTL0133-03	DU-18	total	Solid/Soil	SM2540B MOD.	10L3510_P
HTL0133-04	DU-19	total	Solid/Soil	SM2540B MOD.	10L3510_P
HTL0133-06	DU-10	total	Solid/Soil	SM2540B MOD.	10L3510_P
HTL0133-07	DU-5-2	total	Solid/Soil	SM2540B MOD.	10L3510_P
HTL0133-08	DU-6-2	total	Solid/Soil	SM2540B MOD.	10L3510_P
HTL0133-09	DU-9-2	total	Solid/Soil	SM2540B MOD.	10L3510_P
HTL0133-11	DU-13-4	total	Solid/Soil	SM2540B MOD.	10L3510_P
HTL0133-12	DU-12-4	total	Solid/Soil	SM2540B MOD.	10L3510_P
HTL0133-14	DU-11	total	Solid/Soil	SM2540B MOD.	10L3510_P
HTL0133-15	DU-20	total	Solid/Soil	SM2540B MOD.	10L3510_P
10L3510-BLK1	10L3510-BLK1	total	Solid	SM2540B MOD.	10L3510_P
10L3510-DUP1	ITL2183-06	total	Solid	SM2540B MOD.	10L3510_P
HTL0133-01	DU-07	total	Solid/Soil	SM2540B MOD.	10L3510_P
HTL0133-02	DU-8	total	Solid/Soil	SM2540B MOD.	10L3510_P
HTL0133-03	DU-18	total	Solid/Soil	SM2540B MOD.	10L3510_P
HTL0133-04	DU-19	total	Solid/Soil	SM2540B MOD.	10L3510_P
HTL0133-06	DU-10	total	Solid/Soil	SM2540B MOD.	10L3510_P
HTL0133-07	DU-5-2	total	Solid/Soil	SM2540B MOD.	10L3510_P
HTL0133-08	DU-6-2	total	Solid/Soil	SM2540B MOD.	10L3510_P
HTL0133-09	DU-9-2	total	Solid/Soil	SM2540B MOD.	10L3510_P
HTL0133-11	DU-13-4	total	Solid/Soil	SM2540B MOD.	10L3510_P
HTL0133-12	DU-12-4	total	Solid/Soil	SM2540B MOD.	10L3510_P
HTL0133-14	DU-11	total	Solid/Soil	SM2540B MOD.	10L3510_P
HTL0133-15	DU-20	total	Solid/Soil	SM2540B MOD.	10L3510_P

Prep Batch: 10L3510_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HTL0133-01	DU-07	total	Solid/Soil	General Prep	
HTL0133-02	DU-8	total	Solid/Soil	General Prep	
HTL0133-03	DU-18	total	Solid/Soil	General Prep	
HTL0133-04	DU-19	total	Solid/Soil	General Prep	
HTL0133-06	DU-10	total	Solid/Soil	General Prep	
HTL0133-07	DU-5-2	total	Solid/Soil	General Prep	
HTL0133-08	DU-6-2	total	Solid/Soil	General Prep	
HTL0133-09	DU-9-2	total	Solid/Soil	General Prep	
HTL0133-11	DU-13-4	total	Solid/Soil	General Prep	
HTL0133-12	DU-12-4	total	Solid/Soil	General Prep	
HTL0133-14	DU-11	total	Solid/Soil	General Prep	

Wet Chemistry (Continued)

Prep Batch: 10L3510_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HTL0133-15	DU-20	total	Solid/Soil	General Prep	
10L3510-BLK1	10L3510-BLK1	total	Solid	General Prep	
10L3510-DUP1	ITL2183-06	total	Solid	General Prep	
HTL0133-01	DU-07	total	Solid/Soil	General Prep	
HTL0133-02	DU-8	total	Solid/Soil	General Prep	
HTL0133-03	DU-18	total	Solid/Soil	General Prep	
HTL0133-04	DU-19	total	Solid/Soil	General Prep	
HTL0133-06	DU-10	total	Solid/Soil	General Prep	
HTL0133-07	DU-5-2	total	Solid/Soil	General Prep	
HTL0133-08	DU-6-2	total	Solid/Soil	General Prep	
HTL0133-09	DU-9-2	total	Solid/Soil	General Prep	
HTL0133-11	DU-13-4	total	Solid/Soil	General Prep	
HTL0133-12	DU-12-4	total	Solid/Soil	General Prep	
HTL0133-14	DU-11	total	Solid/Soil	General Prep	
HTL0133-15	DU-20	total	Solid/Soil	General Prep	

WetChem

Analysis Batch: 11B0063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HTL0133-01	DU-07	total	Solid/Soil	SM 2540G	11B0063_P
HTL0133-02	DU-8	total	Solid/Soil	SM 2540G	11B0063_P
HTL0133-03	DU-18	total	Solid/Soil	SM 2540G	11B0063_P
HTL0133-04	DU-19	total	Solid/Soil	SM 2540G	11B0063_P
HTL0133-06	DU-10	total	Solid/Soil	SM 2540G	11B0063_P
HTL0133-07	DU-5-2	total	Solid/Soil	SM 2540G	11B0063_P
HTL0133-08	DU-6-2	total	Solid/Soil	SM 2540G	11B0063_P
HTL0133-09	DU-9-2	total	Solid/Soil	SM 2540G	11B0063_P
HTL0133-11	DU-13-4	total	Solid/Soil	SM 2540G	11B0063_P
HTL0133-12	DU-12-4	total	Solid/Soil	SM 2540G	11B0063_P
HTL0133-14	DU-11	total	Solid/Soil	SM 2540G	11B0063_P
HTL0133-15	DU-20	total	Solid/Soil	SM 2540G	11B0063_P

Prep Batch: 11B0063_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HTL0133-01	DU-07	total	Solid/Soil	Default Prep GenChem	
HTL0133-02	DU-8	total	Solid/Soil	Default Prep GenChem	
HTL0133-03	DU-18	total	Solid/Soil	Default Prep GenChem	
HTL0133-04	DU-19	total	Solid/Soil	Default Prep GenChem	
HTL0133-06	DU-10	total	Solid/Soil	Default Prep GenChem	
HTL0133-07	DU-5-2	total	Solid/Soil	Default Prep GenChem	
HTL0133-08	DU-6-2	total	Solid/Soil	Default Prep GenChem	
HTL0133-09	DU-9-2	total	Solid/Soil	Default Prep GenChem	
HTL0133-11	DU-13-4	total	Solid/Soil	Default Prep GenChem	
HTL0133-12	DU-12-4	total	Solid/Soil	Default Prep GenChem	
HTL0133-14	DU-11	total	Solid/Soil	Default Prep GenChem	

WetChem (Continued)

Prep Batch: 11B0063_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HTL0133-15	DU-20	total	Solid/Soil	Default Prep GenChem	

Client Sample ID: DU-07

Date Collected: 12/13/10 10:45
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-01
Matrix: Solid/Soil
Percent Solids: 69

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	EPA 3550 MS		0.984	11B0044_P	02/07/11 08:40	HJM	TestAmerica Honolulu
total	Analysis	EPA 8270		1.00	11B0044	02/07/11 21:33	SUI	TestAmerica Honolulu
total	Prep	EPA 3546		1.0	10L2992_P	12/27/10 08:25	AG	TestAmerica Irvine
total	Analysis	EPA 8270C-SIM		1.0	10L2992	12/27/10 15:01	DF/	TestAmerica Irvine
total	Prep	EPA 3546		1.0	10L2992_P	12/27/10 06:25	AG	TestAmerica Irvine
total	Analysis	EPA 8270C-SIM		1.0	10L2992	12/27/10 13:01	DF/	TestAmerica Irvine
total	Prep	EPA 3545		1.5	11B0583_P	02/04/11 09:50	JMH	TestAmerica Irvine
total	Analysis	EPA 8081A		1.0	11B0583	02/07/11 17:31	DXD	TestAmerica Irvine
total	Prep	EPA 3545		1.5	11B0583_P	02/04/11 07:50	JMH	TestAmerica Irvine
total	Analysis	EPA 8081A		1.0	11B0583	02/07/11 15:31	DXD	TestAmerica Irvine
Total	Prep	8290			1005232_P	01/05/11 18:00		TestAmerica West Sacramento
Total	Analysis	8290		95.2	1005232	01/10/11 19:01		TestAmerica West Sacramento
total	Prep	EPA 3050		0.936	11A0058_P	01/12/11 14:20	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		1.00	11A0058	01/14/11 15:19	RRG	TestAmerica Honolulu
total	Prep	EPA 3050		1.00	11B0039_P	02/04/11 10:30	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		1.00	11B0039	02/04/11 14:56	RRG	TestAmerica Honolulu
total	Prep	EPA 3050		1.00	11B0043_P	02/04/11 17:36	RRG	TestAmerica Honolulu
total	Leach	TCLP Extraction		1.00	11B0080	02/10/11 11:00	RRG	TestAmerica Honolulu
total	Analysis	SBRC Appendix C Rev. #8		1.00	11B0043	02/11/11 18:47	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		1.00	11B0043	02/11/11 18:47	RRG	TestAmerica Honolulu
total	Prep	EPA 7471		1.02	11A0014_P	01/04/11 10:23	JLM	TestAmerica Honolulu
total	Analysis	EPA 7471		5.00	11A0014	01/04/11 16:04	JLM	TestAmerica Honolulu
total	Analysis	SM2540B MOD.		1.0	10L3510	12/30/10 19:30	DK	TestAmerica Irvine
total	Prep	General Prep		1.0	10L3510_P	12/30/10 19:30	DK	TestAmerica Irvine
total	Analysis	SM2540B MOD.		1.0	10L3510	12/30/10 17:30	DK	TestAmerica Irvine
total	Prep	General Prep		1.0	10L3510_P	12/30/10 17:30	DK	TestAmerica Irvine
total	Prep	Default Prep GenChem		1.00	11B0063_P	12/30/10 09:31	X	TestAmerica Honolulu
total	Analysis	SM 2540G		1.00	11B0063	12/30/10 09:34	MDH	TestAmerica Honolulu

Client Sample ID: DU-8

Date Collected: 12/13/10 16:45
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-02
Matrix: Solid/Soil
Percent Solids: 71

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	EPA 3550 MS		0.997	11B0044_P	02/07/11 08:40	HJM	TestAmerica Honolulu
total	Analysis	EPA 8270		1.00	11B0044	02/07/11 22:12	SUI	TestAmerica Honolulu
total	Prep	EPA 3546		2.0	10L2992_P	12/27/10 08:25	AG	TestAmerica Irvine
total	Analysis	EPA 8270C-SIM		1.0	10L2992	12/31/10 17:38	DF/	TestAmerica Irvine
total	Prep	EPA 3546		2.0	10L2992_P	12/27/10 06:25	AG	TestAmerica Irvine
total	Analysis	EPA 8270C-SIM		1.0	10L2992	12/31/10 15:38	DF/	TestAmerica Irvine
total	Prep	EPA 3545		1.5	11B0583_P	02/04/11 09:50	JMH	TestAmerica Irvine
total	Analysis	EPA 8081A		1.0	11B0583	02/07/11 17:46	DXD	TestAmerica Irvine
total	Prep	EPA 3545		1.5	11B0583_P	02/04/11 07:50	JMH	TestAmerica Irvine
total	Analysis	EPA 8081A		1.0	11B0583	02/07/11 15:46	DXD	TestAmerica Irvine

Client Sample ID: DU-8

Lab Sample ID: HTL0133-02

Date Collected: 12/13/10 16:45
Matrix: Solid/Soil
Date Received: 12/17/10 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	8290			1005232_P	01/05/11 18:00		TestAmerica West Sacramento
Total	Analysis	8290		193.61	1005232	01/10/11 19:46		TestAmerica West Sacramento
total	Prep	EPA 3050		0.979	11A0058_P	01/12/11 14:20	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		10.0	11A0058	01/14/11 17:22	RRG	TestAmerica Honolulu
total	Prep	EPA 3050		0.962	11B0039_P	02/04/11 10:30	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		50.0	11B0039	02/08/11 18:34	RRG	TestAmerica Honolulu
total	Prep	EPA 3050		1.00	11B0043_P	02/04/11 17:36	RRG	TestAmerica Honolulu
total	Leach	TCLP Extraction		1.00	11B0080	02/10/11 11:00	RRG	TestAmerica Honolulu
total	Analysis	SBRC Appendix C Rev. #8		1.00	11B0043	02/11/11 18:47	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		1.00	11B0043	02/11/11 18:47	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		1.00	11A0058	01/14/11 15:23	RRG	TestAmerica Honolulu
total	Prep	EPA 7471		1.06	11A0014_P	01/04/11 10:23	JLM	TestAmerica Honolulu
total	Analysis	EPA 7471		50.0	11A0014	01/04/11 18:26	JLM	TestAmerica Honolulu
total	Analysis	SM2540B MOD.		1.0	10L3510	12/30/10 19:30	DK	TestAmerica Irvine
total	Prep	General Prep		1.0	10L3510_P	12/30/10 19:30	DK	TestAmerica Irvine
total	Analysis	SM2540B MOD.		1.0	10L3510	12/30/10 17:30	DK	TestAmerica Irvine
total	Prep	General Prep		1.0	10L3510_P	12/30/10 17:30	DK	TestAmerica Irvine
total	Prep	Default Prep GenChem		1.00	11B0063_P	12/30/10 09:31	X	TestAmerica Honolulu
total	Analysis	SM 2540G		1.00	11B0063	12/30/10 09:34	MDH	TestAmerica Honolulu

Client Sample ID: DU-18

Lab Sample ID: HTL0133-03

Date Collected: 12/13/10 14:30
Matrix: Solid/Soil
Date Received: 12/17/10 15:05
Percent Solids: 73

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	EPA 3550 MS		0.904	11B0044_P	02/07/11 08:40	HJM	TestAmerica Honolulu
total	Analysis	EPA 8270		5.00	11B0044	02/08/11 15:46	VH	TestAmerica Honolulu
total	Prep	EPA 3546		2.0	10L2992_P	12/27/10 08:25	AG	TestAmerica Irvine
total	Analysis	EPA 8270C-SIM		1.0	10L2992	12/31/10 18:03	DF/	TestAmerica Irvine
total	Prep	EPA 3546		2.0	10L2992_P	12/27/10 06:25	AG	TestAmerica Irvine
total	Analysis	EPA 8270C-SIM		1.0	10L2992	12/31/10 16:03	DF/	TestAmerica Irvine
total	Prep	EPA 3545		1.5	11B0583_P	02/04/11 09:50	JMH	TestAmerica Irvine
total	Analysis	EPA 8081A		1.0	11B0583	02/07/11 18:00	DXD	TestAmerica Irvine
total	Prep	EPA 3545		1.5	11B0583_P	02/04/11 07:50	JMH	TestAmerica Irvine
total	Analysis	EPA 8081A		1.0	11B0583	02/07/11 16:00	DXD	TestAmerica Irvine
Total	Prep	8290			1005232_P	01/05/11 18:00		TestAmerica West Sacramento
Total	Analysis	8290		194.36	1005232	01/10/11 20:30		TestAmerica West Sacramento
total	Prep	EPA 3050		0.961	11A0058_P	01/12/11 14:20	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		10.0	11A0058	01/14/11 17:27	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		1.00	11A0058	01/14/11 15:28	RRG	TestAmerica Honolulu
total	Prep	EPA 7471		1.03	11A0014_P	01/04/11 10:23	JLM	TestAmerica Honolulu
total	Analysis	EPA 7471		20.0	11A0014	01/04/11 18:27	JLM	TestAmerica Honolulu
total	Analysis	SM2540B MOD.		1.0	10L3510	12/30/10 19:30	DK	TestAmerica Irvine
total	Prep	General Prep		1.0	10L3510_P	12/30/10 19:30	DK	TestAmerica Irvine

Client Sample ID: DU-18

Lab Sample ID: HTL0133-03
Date Collected: 12/13/10 14:30
Matrix: Solid/Soil
Date Received: 12/17/10 15:05
Percent Solids: 72.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Analysis	SM2540B MOD.		1.0	10L3510	12/30/10 17:30	DK	TestAmerica Irvine
total	Prep	General Prep		1.0	10L3510_P	12/30/10 17:30	DK	TestAmerica Irvine
total	Prep	Default Prep GenChem		1.00	11B0063_P	12/30/10 09:31	X	TestAmerica Honolulu
total	Analysis	SM 2540G		1.00	11B0063	12/30/10 09:34	MDH	TestAmerica Honolulu

Client Sample ID: DU-19

Lab Sample ID: HTL0133-04
Date Collected: 12/13/10 17:55
Matrix: Solid/Soil
Date Received: 12/17/10 15:05
Percent Solids: 72

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	EPA 3550 MS		0.987	11B0044_P	02/07/11 08:40	HJM	TestAmerica Honolulu
total	Analysis	EPA 8270		1.00	11B0044	02/07/11 23:29	SUI	TestAmerica Honolulu
total	Prep	EPA 3546		2.0	10L2992_P	12/27/10 08:25	AG	TestAmerica Irvine
total	Analysis	EPA 8270C-SIM		1.0	10L2992	12/31/10 18:27	DF/	TestAmerica Irvine
total	Prep	EPA 3546		2.0	10L2992_P	12/27/10 06:25	AG	TestAmerica Irvine
total	Analysis	EPA 8270C-SIM		1.0	10L2992	12/31/10 16:27	DF/	TestAmerica Irvine
total	Prep	EPA 3545		1.5	11B0583_P	02/04/11 09:50	JMH	TestAmerica Irvine
total	Analysis	EPA 8081A		1.0	11B0583	02/07/11 18:14	DXD	TestAmerica Irvine
total	Prep	EPA 3545		1.5	11B0583_P	02/04/11 07:50	JMH	TestAmerica Irvine
total	Analysis	EPA 8081A		1.0	11B0583	02/07/11 16:14	DXD	TestAmerica Irvine
Total	Prep	8290			1005232_P	01/05/11 18:00		TestAmerica West Sacramento
Total	Analysis	8290		240.62	1005232	01/11/11 00:13		TestAmerica West Sacramento
total	Prep	EPA 3050		0.945	11A0058_P	01/12/11 14:20	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		10.0	11A0058	01/14/11 17:32	RRG	TestAmerica Honolulu
total	Prep	EPA 3050		0.971	11B0039_P	02/04/11 10:30	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		50.0	11B0039	02/08/11 18:39	RRG	TestAmerica Honolulu
total	Prep	EPA 3050		1.00	11B0043_P	02/04/11 17:36	RRG	TestAmerica Honolulu
total	Leach	TCLP Extraction		1.00	11B0080	02/10/11 11:00	RRG	TestAmerica Honolulu
total	Analysis	SBRC Appendix C Rev. #8		1.00	11B0043	02/11/11 18:47	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		1.00	11B0043	02/11/11 18:47	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		1.00	11A0058	01/14/11 15:33	RRG	TestAmerica Honolulu
total	Prep	EPA 7471		1.03	11A0014_P	01/04/11 10:23	JLM	TestAmerica Honolulu
total	Analysis	EPA 7471		20.0	11A0014	01/04/11 18:28	JLM	TestAmerica Honolulu
total	Analysis	SM2540B MOD.		1.0	10L3510	12/30/10 19:30	DK	TestAmerica Irvine
total	Prep	General Prep		1.0	10L3510_P	12/30/10 19:30	DK	TestAmerica Irvine
total	Analysis	SM2540B MOD.		1.0	10L3510	12/30/10 17:30	DK	TestAmerica Irvine
total	Prep	General Prep		1.0	10L3510_P	12/30/10 17:30	DK	TestAmerica Irvine
total	Prep	Default Prep GenChem		1.00	11B0063_P	12/30/10 09:31	X	TestAmerica Honolulu
total	Analysis	SM 2540G		1.00	11B0063	12/30/10 09:34	MDH	TestAmerica Honolulu

Client Sample ID: EQ-1

Date Collected: 12/13/10 17:10
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-05
Matrix: Water - NonPotable

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	EPA 3510 MS		1.03	10L0158_P	12/21/10 10:45	MFP	TestAmerica Honolulu
total	Analysis	EPA 8270 SIM		1.00	10L0158	01/05/11 23:41	Steph	TestAmerica Honolulu
total	Prep	EPA 3510C		1.0	10L3249_P	12/29/10 07:34	BLP	TestAmerica Irvine
total	Analysis	EPA 8081A		1.0	10L3249	12/29/10 20:48	DXD	TestAmerica Irvine
total	Prep	EPA 3510C		1.0	10L3249_P	12/29/10 05:34	BLP	TestAmerica Irvine
total	Analysis	EPA 8081A		1.0	10L3249	12/29/10 18:48	DXD	TestAmerica Irvine
Total	Prep	8290			1007091_P	01/07/11 09:00		TestAmerica West Sacramento
Total	Analysis	8290		1.12	1007091	01/11/11 07:38		TestAmerica West Sacramento
total	Prep	EPA 3005A ICP		1.0	10L3274_P	12/29/10 08:55	NEX	TestAmerica Irvine
total	Analysis	EPA 6010B		1.0	10L3274	01/05/11 08:37	VRS	TestAmerica Irvine
total	Prep	EPA 7470A Hg		1.0	10L3471_P	12/30/10 12:44	SN	TestAmerica Irvine
total	Analysis	EPA 7470A		1.0	10L3471	12/30/10 18:29	DB	TestAmerica Irvine
total	Prep	EPA 3005A ICP		1.0	10L3274_P	12/29/10 06:55	NEX	TestAmerica Irvine
total	Analysis	EPA 6010B		1.0	10L3274	01/05/11 06:37	VRS	TestAmerica Irvine
total	Prep	EPA 7470A Hg		1.0	10L3471_P	12/30/10 10:44	SN	TestAmerica Irvine
total	Analysis	EPA 7470A		1.0	10L3471	12/30/10 16:29	DB	TestAmerica Irvine

Client Sample ID: DU-10

Date Collected: 12/14/10 10:20
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-06
Matrix: Solid/Soil
Percent Solids: 74

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	EPA 3550 MS		0.958	11B0044_P	02/07/11 08:40	HJM	TestAmerica Honolulu
total	Analysis	EPA 8270		1.00	11B0044	02/08/11 00:08	SUI	TestAmerica Honolulu
total	Prep	EPA 3546		2.0	10L2992_P	12/27/10 08:25	AG	TestAmerica Irvine
total	Analysis	EPA 8270C-SIM		1.0	10L2992	12/31/10 18:52	DF/	TestAmerica Irvine
total	Prep	EPA 3546		2.0	10L2992_P	12/27/10 06:25	AG	TestAmerica Irvine
total	Analysis	EPA 8270C-SIM		1.0	10L2992	12/31/10 16:52	DF/	TestAmerica Irvine
total	Prep	EPA 3545		1.5	11B0583_P	02/04/11 09:50	JMH	TestAmerica Irvine
total	Analysis	EPA 8081A		1.0	11B0583	02/07/11 18:29	DXD	TestAmerica Irvine
total	Prep	EPA 3545		1.5	11B0583_P	02/04/11 07:50	JMH	TestAmerica Irvine
total	Analysis	EPA 8081A		1.0	11B0583	02/07/11 16:29	DXD	TestAmerica Irvine
Total	Prep	8290			1005232_P	01/05/11 18:00		TestAmerica West Sacramento
Total	Analysis	8290		90.9	1005232	01/11/11 00:58		TestAmerica West Sacramento
total	Prep	EPA 3050		0.992	11A0058_P	01/12/11 14:20	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		10.0	11A0058	01/14/11 17:37	RRG	TestAmerica Honolulu
total	Prep	EPA 3050		0.971	11B0039_P	02/04/11 10:30	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		10.0	11B0039	02/08/11 18:44	RRG	TestAmerica Honolulu
total	Prep	EPA 3050		1.00	11B0043_P	02/04/11 17:36	RRG	TestAmerica Honolulu
total	Leach	TCLP Extraction		1.00	11B0080	02/10/11 11:00	RRG	TestAmerica Honolulu
total	Analysis	SBRC Appendix C Rev. #8		1.00	11B0043	02/11/11 18:47	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		1.00	11B0043	02/11/11 18:47	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		1.00	11A0058	01/14/11 15:38	RRG	TestAmerica Honolulu
total	Prep	EPA 7471		0.994	11A0014_P	01/04/11 10:23	JLM	TestAmerica Honolulu
total	Analysis	EPA 7471		10.0	11A0014	01/04/11 18:00	JLM	TestAmerica Honolulu

Client Sample ID: DU-10

Date Collected: 12/14/10 10:20
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-06
Matrix: Solid/Soil
Percent Solids: 73.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Analysis	SM2540B MOD.		1.0	10L3510	12/30/10 19:30	DK	TestAmerica Irvine
total	Prep	General Prep		1.0	10L3510_P	12/30/10 19:30	DK	TestAmerica Irvine
total	Analysis	SM2540B MOD.		1.0	10L3510	12/30/10 17:30	DK	TestAmerica Irvine
total	Prep	General Prep		1.0	10L3510_P	12/30/10 17:30	DK	TestAmerica Irvine
total	Prep	Default Prep		1.00	11B0063_P	12/30/10 09:31	X	TestAmerica Honolulu
total	Analysis	GenChem SM 2540G		1.00	11B0063	12/30/10 09:34	MDH	TestAmerica Honolulu

Client Sample ID: DU-5-2

Date Collected: 12/14/10 11:45
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-07
Matrix: Solid/Soil
Percent Solids: 70

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	EPA 3550 MS		1.01	11B0044_P	02/07/11 08:40	HJM	TestAmerica Honolulu
total	Analysis	EPA 8270		1.00	11B0044	02/08/11 00:47	SUI	TestAmerica Honolulu
total	Prep	EPA 3546		1.0	10L2992_P	12/27/10 08:25	AG	TestAmerica Irvine
total	Analysis	EPA 8270C-SIM		1.0	10L2992	12/31/10 19:16	DF/	TestAmerica Irvine
total	Prep	EPA 3546		1.0	10L2992_P	12/27/10 06:25	AG	TestAmerica Irvine
total	Analysis	EPA 8270C-SIM		1.0	10L2992	12/31/10 17:16	DF/	TestAmerica Irvine
total	Prep	EPA 3545		1.5	11B0583_P	02/04/11 09:50	JMH	TestAmerica Irvine
total	Analysis	EPA 8081A		1.0	11B0583	02/07/11 18:43	DXD	TestAmerica Irvine
total	Prep	EPA 3545		1.5	11B0583_P	02/04/11 07:50	JMH	TestAmerica Irvine
total	Analysis	EPA 8081A		1.0	11B0583	02/07/11 16:43	DXD	TestAmerica Irvine
Total	Prep	8290			1005232_P	01/05/11 18:00		TestAmerica West Sacramento
Total	Analysis	8290		19.6	1005232	01/11/11 01:42		TestAmerica West Sacramento
total	Prep	EPA 3050		0.986	11A0058_P	01/12/11 14:20	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		1.00	11A0058	01/14/11 15:43	RRG	TestAmerica Honolulu
total	Prep	EPA 3050		0.926	11B0039_P	02/04/11 10:30	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		10.0	11B0039	02/08/11 18:49	RRG	TestAmerica Honolulu
total	Prep	EPA 3050		1.00	11B0043_P	02/04/11 17:36	RRG	TestAmerica Honolulu
total	Leach	TCLP Extraction		1.00	11B0080	02/10/11 11:00	RRG	TestAmerica Honolulu
total	Analysis	SBRC Appendix C Rev. #8		1.00	11B0043	02/11/11 18:47	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		1.00	11B0043	02/11/11 18:47	RRG	TestAmerica Honolulu
total	Prep	EPA 7471		0.911	11A0014_P	01/04/11 10:23	JLM	TestAmerica Honolulu
total	Analysis	EPA 7471		10.0	11A0014	01/04/11 17:13	JLM	TestAmerica Honolulu
total	Analysis	SM2540B MOD.		1.0	10L3510	12/30/10 19:30	DK	TestAmerica Irvine
total	Prep	General Prep		1.0	10L3510_P	12/30/10 19:30	DK	TestAmerica Irvine
total	Analysis	SM2540B MOD.		1.0	10L3510	12/30/10 17:30	DK	TestAmerica Irvine
total	Prep	General Prep		1.0	10L3510_P	12/30/10 17:30	DK	TestAmerica Irvine
total	Prep	Default Prep		1.00	11B0063_P	12/30/10 09:31	X	TestAmerica Honolulu
total	Analysis	GenChem SM 2540G		1.00	11B0063	12/30/10 09:34	MDH	TestAmerica Honolulu

Client Sample ID: DU-6-2

Date Collected: 12/14/10 13:50
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-08

Matrix: Solid/Soil
Percent Solids: 75

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	EPA 3550 MS		0.968	11B0044_P	02/07/11 08:40	HJM	TestAmerica Honolulu
total	Analysis	EPA 8270		1.00	11B0044	02/08/11 01:27	SUI	TestAmerica Honolulu
total	Prep	EPA 3546		2.0	10L2992_P	12/27/10 08:25	AG	TestAmerica Irvine
total	Analysis	EPA 8270C-SIM		4.0	10L2992	12/31/10 19:41	DF/	TestAmerica Irvine
total	Prep	EPA 3546		2.0	10L2992_P	12/27/10 06:25	AG	TestAmerica Irvine
total	Analysis	EPA 8270C-SIM		4.0	10L2992	12/31/10 17:41	DF/	TestAmerica Irvine
total	Prep	EPA 3545		1.5	11B0583_P	02/04/11 09:50	JMH	TestAmerica Irvine
total	Analysis	EPA 8081A		1.0	11B0583	02/07/11 18:57	DXD	TestAmerica Irvine
total	Prep	EPA 3545		1.5	11B0583_P	02/04/11 07:50	JMH	TestAmerica Irvine
total	Analysis	EPA 8081A		1.0	11B0583	02/07/11 16:57	DXD	TestAmerica Irvine
Total	Prep	8290			1005232_P	01/05/11 18:00		TestAmerica West Sacramento
Total	Analysis	8290		83.33	1005232	01/11/11 02:27		TestAmerica West Sacramento
total	Prep	EPA 3050		0.931	11A0058_P	01/12/11 14:20	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		1.00	11A0058	01/14/11 15:48	RRG	TestAmerica Honolulu
total	Prep	EPA 3050		0.943	11B0039_P	02/04/11 10:30	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		10.0	11B0039	02/08/11 18:54	RRG	TestAmerica Honolulu
total	Prep	EPA 3050		1.00	11B0043_P	02/04/11 17:36	RRG	TestAmerica Honolulu
total	Leach	TCLP Extraction		1.00	11B0080	02/10/11 11:00	RRG	TestAmerica Honolulu
total	Analysis	SBRC Appendix C Rev. #8		1.00	11B0043	02/11/11 18:47	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		1.00	11B0043	02/11/11 18:47	RRG	TestAmerica Honolulu
total	Prep	EPA 7471		0.967	11A0014_P	01/04/11 10:23	JLM	TestAmerica Honolulu
total	Analysis	EPA 7471		10.0	11A0014	01/04/11 17:14	JLM	TestAmerica Honolulu
total	Analysis	SM2540B MOD.		1.0	10L3510	12/30/10 19:30	DK	TestAmerica Irvine
total	Prep	General Prep		1.0	10L3510_P	12/30/10 19:30	DK	TestAmerica Irvine
total	Analysis	SM2540B MOD.		1.0	10L3510	12/30/10 17:30	DK	TestAmerica Irvine
total	Prep	General Prep		1.0	10L3510_P	12/30/10 17:30	DK	TestAmerica Irvine
total	Prep	Default Prep GenChem		1.00	11B0063_P	12/30/10 09:31	X	TestAmerica Honolulu
total	Analysis	SM 2540G		1.00	11B0063	12/30/10 09:34	MDH	TestAmerica Honolulu

Client Sample ID: DU-9-2

Date Collected: 12/14/10 15:00
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-09

Matrix: Solid/Soil
Percent Solids: 72

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	EPA 3550 MS		0.955	11B0044_P	02/07/11 08:40	HJM	TestAmerica Honolulu
total	Analysis	EPA 8270		2.00	11B0044	02/08/11 17:11	SUI	TestAmerica Honolulu
total	Prep	EPA 3546		1.0	10L2992_P	12/27/10 08:25	AG	TestAmerica Irvine
total	Analysis	EPA 8270C-SIM		1.0	10L2992	12/31/10 20:06	DF/	TestAmerica Irvine
total	Prep	EPA 3546		1.0	10L2992_P	12/27/10 06:25	AG	TestAmerica Irvine
total	Analysis	EPA 8270C-SIM		1.0	10L2992	12/31/10 18:06	DF/	TestAmerica Irvine
total	Prep	EPA 3545		1.5	11B0583_P	02/04/11 09:50	JMH	TestAmerica Irvine
total	Analysis	EPA 8081A		1.0	11B0583	02/07/11 19:12	DXD	TestAmerica Irvine
total	Prep	EPA 3545		1.5	11B0583_P	02/04/11 07:50	JMH	TestAmerica Irvine
total	Analysis	EPA 8081A		1.0	11B0583	02/07/11 17:12	DXD	TestAmerica Irvine

Client Sample ID: DU-9-2
Date Collected: 12/14/10 15:00
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-09
Matrix: Solid/Soil

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	8290			1005232_P	01/05/11 18:00		TestAmerica West Sacramento
Total	Analysis	8290		50	1005232	01/11/11 03:11		TestAmerica West Sacramento
total	Prep	EPA 3050		0.982	11A0058_P	01/12/11 14:20	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		1.00	11A0058	01/14/11 15:53	RRG	TestAmerica Honolulu
total	Prep	EPA 3050		0.935	11B0039_P	02/04/11 10:30	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		10.0	11B0039	02/08/11 18:59	RRG	TestAmerica Honolulu
total	Prep	EPA 3050		1.00	11B0043_P	02/04/11 17:36	RRG	TestAmerica Honolulu
total	Leach	TCLP Extraction		1.00	11B0080	02/10/11 11:00	RRG	TestAmerica Honolulu
total	Analysis	SBRC Appendix C Rev. #8		1.00	11B0043	02/11/11 18:47	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		1.00	11B0043	02/11/11 18:47	RRG	TestAmerica Honolulu
total	Prep	EPA 7471		0.982	11A0014_P	01/04/11 10:23	JLM	TestAmerica Honolulu
total	Analysis	EPA 7471		10.0	11A0014	01/04/11 17:16	JLM	TestAmerica Honolulu
total	Analysis	SM2540B MOD.		1.0	10L3510	12/30/10 19:30	DK	TestAmerica Irvine
total	Prep	General Prep		1.0	10L3510_P	12/30/10 19:30	DK	TestAmerica Irvine
total	Analysis	SM2540B MOD.		1.0	10L3510	12/30/10 17:30	DK	TestAmerica Irvine
total	Prep	General Prep		1.0	10L3510_P	12/30/10 17:30	DK	TestAmerica Irvine
total	Prep	Default Prep GenChem		1.00	11B0063_P	12/30/10 09:31	X	TestAmerica Honolulu
total	Analysis	SM 2540G		1.00	11B0063	12/30/10 09:34	MDH	TestAmerica Honolulu

Client Sample ID: EQ-2
Date Collected: 12/14/10 15:10
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-10
Matrix: Water - NonPotable

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	EPA 3510 MS		1.02	10L0158_P	12/21/10 10:45	MFP	TestAmerica Honolulu
total	Analysis	EPA 8270 SIM		1.00	10L0158	01/06/11 00:16	Steph	TestAmerica Honolulu
total	Prep	EPA 3005A ICP		1.0	10L3274_P	12/29/10 08:55	NEX	TestAmerica Irvine
total	Analysis	EPA 6010B		1.0	10L3274	01/05/11 08:40	VRS	TestAmerica Irvine
total	Prep	EPA 7470A Hg		1.0	10L3471_P	12/30/10 12:44	SN	TestAmerica Irvine
total	Analysis	EPA 7470A		1.0	10L3471	12/30/10 18:31	DB	TestAmerica Irvine
total	Prep	EPA 3005A ICP		1.0	10L3274_P	12/29/10 06:55	NEX	TestAmerica Irvine
total	Analysis	EPA 6010B		1.0	10L3274	01/05/11 06:40	VRS	TestAmerica Irvine
total	Prep	EPA 7470A Hg		1.0	10L3471_P	12/30/10 10:44	SN	TestAmerica Irvine
total	Analysis	EPA 7470A		1.0	10L3471	12/30/10 16:31	DB	TestAmerica Irvine

Client Sample ID: DU-13-4
Date Collected: 12/15/10 11:30
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-11
Matrix: Solid/Soil
Percent Solids: 70

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	EPA 3550 MS		0.952	11B0044_P	02/07/11 08:40	HJM	TestAmerica Honolulu
total	Analysis	EPA 8270		1.00	11B0044	02/08/11 02:05	SUI	TestAmerica Honolulu
total	Prep	EPA 3546		1.0	10L2992_P	12/27/10 08:25	AG	TestAmerica Irvine
total	Analysis	EPA 8270C-SIM		1.0	10L2992	12/31/10 20:31	DF/	TestAmerica Irvine

Client Sample ID: DU-13-4

Date Collected: 12/15/10 11:30
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-11

Matrix: Solid/Soil
Percent Solids: 69.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	EPA 3546		1.0	10L2992_P	12/27/10 06:25	AG	TestAmerica Irvine
total	Analysis	EPA 8270C-SIM		1.0	10L2992	12/31/10 18:31	DF/	TestAmerica Irvine
total	Prep	EPA 3545		1.5	11B0583_P	02/04/11 09:50	JMH	TestAmerica Irvine
total	Analysis	EPA 8081A		1.0	11B0583	02/07/11 17:17	DXD	TestAmerica Irvine
total	Prep	EPA 3545		1.5	11B0583_P	02/04/11 07:50	JMH	TestAmerica Irvine
total	Analysis	EPA 8081A		1.0	11B0583	02/07/11 15:17	DXD	TestAmerica Irvine
Total	Prep	8290			1005232_P	01/05/11 18:00		TestAmerica West Sacramento
Total	Analysis	8290		4.95	1005232	01/11/11 03:56		TestAmerica West Sacramento
total	Prep	EPA 3050		0.959	11A0058_P	01/12/11 14:20	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		1.00	11A0058	01/14/11 16:08	RRG	TestAmerica Honolulu
total	Prep	EPA 3050		0.952	11B0039_P	02/04/11 10:30	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		1.00	11B0039	02/04/11 15:47	RRG	TestAmerica Honolulu
total	Prep	EPA 3050		1.00	11B0043_P	02/04/11 17:36	RRG	TestAmerica Honolulu
total	Leach	TCLP Extraction		1.00	11B0080	02/10/11 11:00	RRG	TestAmerica Honolulu
total	Analysis	SBRC Appendix C Rev. #8		1.00	11B0043	02/11/11 18:47	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		1.00	11B0043	02/11/11 18:47	RRG	TestAmerica Honolulu
total	Prep	EPA 7471		0.992	11A0014_P	01/04/11 10:23	JLM	TestAmerica Honolulu
total	Analysis	EPA 7471		10.0	11A0014	01/04/11 17:17	JLM	TestAmerica Honolulu
total	Analysis	SM2540B MOD.		1.0	10L3510	12/30/10 19:30	DK	TestAmerica Irvine
total	Prep	General Prep		1.0	10L3510_P	12/30/10 19:30	DK	TestAmerica Irvine
total	Analysis	SM2540B MOD.		1.0	10L3510	12/30/10 17:30	DK	TestAmerica Irvine
total	Prep	General Prep		1.0	10L3510_P	12/30/10 17:30	DK	TestAmerica Irvine
total	Prep	Default Prep GenChem		1.00	11B0063_P	12/30/10 09:31	X	TestAmerica Honolulu
total	Analysis	SM 2540G		1.00	11B0063	12/30/10 09:34	MDH	TestAmerica Honolulu

Client Sample ID: DU-12-4

Date Collected: 12/15/10 11:50
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-12

Matrix: Solid/Soil
Percent Solids: 73

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	EPA 3550 MS		0.980	11B0044_P	02/07/11 08:40	HJM	TestAmerica Honolulu
total	Analysis	EPA 8270		5.00	11B0044	02/08/11 16:25	SUI	TestAmerica Honolulu
total	Prep	EPA 3546		2.0	10L2992_P	12/27/10 08:25	AG	TestAmerica Irvine
total	Analysis	EPA 8270C-SIM		1.0	10L2992	12/31/10 20:56	DF/	TestAmerica Irvine
total	Prep	EPA 3546		2.0	10L2992_P	12/27/10 06:25	AG	TestAmerica Irvine
total	Analysis	EPA 8270C-SIM		1.0	10L2992	12/31/10 18:56	DF/	TestAmerica Irvine
total	Prep	EPA 3545		1.5	11B0583_P	02/04/11 09:50	JMH	TestAmerica Irvine
total	Analysis	EPA 8081A		1.0	11B0583	02/07/11 19:26	DXD	TestAmerica Irvine
total	Prep	EPA 3545		1.5	11B0583_P	02/04/11 07:50	JMH	TestAmerica Irvine
total	Analysis	EPA 8081A		1.0	11B0583	02/07/11 17:26	DXD	TestAmerica Irvine
Total	Prep	8290			1005232_P	01/05/11 18:00		TestAmerica West Sacramento
Total	Analysis	8290		47.61	1005232	01/11/11 04:40		TestAmerica West Sacramento
total	Prep	EPA 3050		1.01	11A0058_P	01/12/11 14:20	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		1.00	11A0058	01/14/11 16:13	RRG	TestAmerica Honolulu

Client Sample ID: DU-12-4

Date Collected: 12/15/10 11:50
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-12

Matrix: Solid/Soil
Percent Solids: 73

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	EPA 3050		0.943	11B0039_P	02/04/11 10:30	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		1.00	11B0039	02/04/11 15:52	RRG	TestAmerica Honolulu
total	Prep	EPA 3050		1.00	11B0043_P	02/04/11 17:36	RRG	TestAmerica Honolulu
total	Leach	TCLP Extraction		1.00	11B0080	02/10/11 11:00	RRG	TestAmerica Honolulu
total	Analysis	SBRC Appendix C Rev. #8		1.00	11B0043	02/11/11 18:47	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		1.00	11B0043	02/11/11 18:47	RRG	TestAmerica Honolulu
total	Prep	EPA 7471		0.982	11A0014_P	01/04/11 10:23	JLM	TestAmerica Honolulu
total	Analysis	EPA 7471		10.0	11A0014	01/04/11 17:18	JLM	TestAmerica Honolulu
total	Analysis	SM2540B MOD.		1.0	10L3510	12/30/10 19:30	DK	TestAmerica Irvine
total	Prep	General Prep		1.0	10L3510_P	12/30/10 19:30	DK	TestAmerica Irvine
total	Analysis	SM2540B MOD.		1.0	10L3510	12/30/10 17:30	DK	TestAmerica Irvine
total	Prep	General Prep		1.0	10L3510_P	12/30/10 17:30	DK	TestAmerica Irvine
total	Prep	Default Prep GenChem		1.00	11B0063_P	12/30/10 09:31	X	TestAmerica Honolulu
total	Analysis	SM 2540G		1.00	11B0063	12/30/10 09:34	MDH	TestAmerica Honolulu

Client Sample ID: EQ-3

Date Collected: 12/14/10 12:05
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-13

Matrix: Water - NonPotable

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	EPA 3510 MS		1.03	10L0158_P	12/21/10 10:45	MFP	TestAmerica Honolulu
total	Analysis	EPA 8270 SIM		1.00	10L0158	01/06/11 00:52	Steph	TestAmerica Honolulu
total	Prep	EPA 3510C		1.0	10L3249_P	12/29/10 07:34	BLP	TestAmerica Irvine
total	Analysis	EPA 8081A		1.0	10L3249	12/29/10 21:17	DXD	TestAmerica Irvine
total	Prep	EPA 3510C		1.0	10L3249_P	12/29/10 05:34	BLP	TestAmerica Irvine
total	Analysis	EPA 8081A		1.0	10L3249	12/29/10 19:17	DXD	TestAmerica Irvine
total	Prep	EPA 3005A ICP		1.0	10L3274_P	12/29/10 08:55	NEX	TestAmerica Irvine
total	Analysis	EPA 6010B		1.0	10L3274	01/05/11 08:43	VRS	TestAmerica Irvine
total	Prep	EPA 7470A Hg		1.0	10L3471_P	12/30/10 12:44	SN	TestAmerica Irvine
total	Analysis	EPA 7470A		1.0	10L3471	12/30/10 18:34	DB	TestAmerica Irvine
total	Prep	EPA 3005A ICP		1.0	10L3274_P	12/29/10 06:55	NEX	TestAmerica Irvine
total	Analysis	EPA 6010B		1.0	10L3274	01/05/11 06:43	VRS	TestAmerica Irvine
total	Prep	EPA 7470A Hg		1.0	10L3471_P	12/30/10 10:44	SN	TestAmerica Irvine
total	Analysis	EPA 7470A		1.0	10L3471	12/30/10 16:34	DB	TestAmerica Irvine

Client Sample ID: DU-11

Date Collected: 12/15/10 15:05
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-14

Matrix: Solid/Soil
Percent Solids: 70

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	EPA 3550 MS		0.926	11B0044_P	02/07/11 08:40	HJM	TestAmerica Honolulu
total	Analysis	EPA 8270		1.00	11B0044	02/08/11 03:24	SUI	TestAmerica Honolulu
total	Prep	EPA 3546		1.0	10L2992_P	12/27/10 08:25	AG	TestAmerica Irvine
total	Analysis	EPA 8270C-SIM		1.0	10L2992	12/31/10 21:21	DF/	TestAmerica Irvine

Client Sample ID: DU-11

Date Collected: 12/15/10 15:05
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-14
Matrix: Solid/Soil
Percent Solids: 70.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	EPA 3546		1.0	10L2992_P	12/27/10 06:25	AG	TestAmerica Irvine
total	Analysis	EPA 8270C-SIM		1.0	10L2992	12/31/10 19:21	DF/	TestAmerica Irvine
total	Prep	EPA 3546		1.0	11B3315_P	02/25/11 14:58	LA	TestAmerica Irvine
total	Analysis	EPA 8081A		1.0	11B3315	02/28/11 04:54	DXD	TestAmerica Irvine
total	Prep	EPA 3546		1.0	11B3315_P	02/25/11 12:58	LA	TestAmerica Irvine
total	Analysis	EPA 8081A		1.0	11B3315	02/28/11 02:54	DXD	TestAmerica Irvine
Total	Prep	8290			1005232_P	01/05/11 18:00		TestAmerica West Sacramento
Total	Analysis	8290		1.96	1005232	01/11/11 05:25		TestAmerica West Sacramento
total	Prep	EPA 3050		0.987	11A0058_P	01/12/11 14:20	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		1.00	11A0058	01/14/11 16:18	RRG	TestAmerica Honolulu
total	Prep	EPA 7471		0.973	11A0014_P	01/04/11 10:23	JLM	TestAmerica Honolulu
total	Analysis	EPA 7471		10.0	11A0014	01/04/11 17:20	JLM	TestAmerica Honolulu
total	Analysis	SM2540B MOD.		1.0	10L3510	12/30/10 19:30	DK	TestAmerica Irvine
total	Prep	General Prep		1.0	10L3510_P	12/30/10 19:30	DK	TestAmerica Irvine
total	Analysis	SM2540B MOD.		1.0	10L3510	12/30/10 17:30	DK	TestAmerica Irvine
total	Prep	General Prep		1.0	10L3510_P	12/30/10 17:30	DK	TestAmerica Irvine
total	Prep	Default Prep		1.00	11B0063_P	12/30/10 09:31	X	TestAmerica Honolulu
total	Analysis	GenChem SM 2540G		1.00	11B0063	12/30/10 09:34	MDH	TestAmerica Honolulu

Client Sample ID: DU-20

Date Collected: 12/15/10 16:10
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-15
Matrix: Solid/Soil
Percent Solids: 74

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	EPA 3550 MS		0.901	11B0044_P	02/07/11 08:40	HJM	TestAmerica Honolulu
total	Analysis	EPA 8270		1.00	11B0044	02/08/11 04:03	SUI	TestAmerica Honolulu
total	Prep	EPA 3546		1.0	10L2992_P	12/27/10 08:25	AG	TestAmerica Irvine
total	Analysis	EPA 8270C-SIM		1.0	10L2992	12/31/10 21:46	DF/	TestAmerica Irvine
total	Prep	EPA 3546		1.0	10L2992_P	12/27/10 06:25	AG	TestAmerica Irvine
total	Analysis	EPA 8270C-SIM		1.0	10L2992	12/31/10 19:46	DF/	TestAmerica Irvine
total	Prep	EPA 3545		1.5	11B0583_P	02/04/11 09:50	JMH	TestAmerica Irvine
total	Analysis	EPA 8081A		1.0	11B0583	02/07/11 19:40	DXD	TestAmerica Irvine
total	Prep	EPA 3545		1.5	11B0583_P	02/04/11 07:50	JMH	TestAmerica Irvine
total	Analysis	EPA 8081A		1.0	11B0583	02/07/11 17:40	DXD	TestAmerica Irvine
Total	Prep	8290			1005232_P	01/05/11 18:00		TestAmerica West Sacramento
Total	Analysis	8290		0.98	1005232	01/11/11 06:09		TestAmerica West Sacramento
total	Prep	EPA 3050		0.984	11A0058_P	01/12/11 14:20	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		1.00	11A0058	01/14/11 16:23	RRG	TestAmerica Honolulu
total	Prep	EPA 7471		1.03	11A0014_P	01/04/11 10:23	JLM	TestAmerica Honolulu
total	Analysis	EPA 7471		10.0	11A0014	01/04/11 17:21	JLM	TestAmerica Honolulu
total	Analysis	SM2540B MOD.		1.0	10L3510	12/30/10 19:30	DK	TestAmerica Irvine
total	Prep	General Prep		1.0	10L3510_P	12/30/10 19:30	DK	TestAmerica Irvine
total	Analysis	SM2540B MOD.		1.0	10L3510	12/30/10 17:30	DK	TestAmerica Irvine
total	Prep	General Prep		1.0	10L3510_P	12/30/10 17:30	DK	TestAmerica Irvine

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Kohala Sugar Company, 12767.063.594.1121

TestAmerica Job ID: HTL0133
SDG: HTL0133

Client Sample ID: DU-20

Date Collected: 12/15/10 16:10
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-15

Matrix: Solid/Soil
Percent Solids: 74

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	Default Prep GenChem		1.00	11B0063_P	12/30/10 09:31	X	TestAmerica Honolulu
total	Analysis	SM 2540G		1.00	11B0063	12/30/10 09:34	MDH	TestAmerica Honolulu

Client Sample ID: TS-1

Date Collected: 12/14/10 12:05
Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-16

Matrix: Water - NonPotable

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	EPA 3510 MS		1.06	10L0158_P	12/21/10 10:45	MFP	TestAmerica Honolulu
total	Analysis	EPA 8270 SIM		1.00	10L0158	01/06/11 01:27	Steph	TestAmerica Honolulu
total	Analysis	EPA 8270 SIM		5.00	10L0158	01/06/11 15:18	Steph	TestAmerica Honolulu
total	Prep	EPA 3510C		1.7	10L3249_P	12/29/10 07:34	BLP	TestAmerica Irvine
total	Analysis	EPA 8081A		1.0	10L3249	12/30/10 01:59	DXD	TestAmerica Irvine
total	Prep	EPA 3510C		1.7	10L3249_P	12/29/10 05:34	BLP	TestAmerica Irvine
total	Analysis	EPA 8081A		1.0	10L3249	12/29/10 23:59	DXD	TestAmerica Irvine
total	Prep	EPA 3005A ICP		1.0	10L3274_P	12/29/10 08:55	NEX	TestAmerica Irvine
total	Analysis	EPA 6010B		1.0	10L3274	01/05/11 08:46	VRS	TestAmerica Irvine
total	Prep	EPA 7470A Hg		1.0	10L3471_P	12/30/10 12:44	SN	TestAmerica Irvine
total	Analysis	EPA 7470A		1.0	10L3471	12/30/10 18:36	DB	TestAmerica Irvine
total	Prep	EPA 3005A ICP		1.0	10L3274_P	12/29/10 06:55	NEX	TestAmerica Irvine
total	Analysis	EPA 6010B		1.0	10L3274	01/05/11 06:46	VRS	TestAmerica Irvine
total	Prep	EPA 7470A Hg		1.0	10L3471_P	12/30/10 10:44	SN	TestAmerica Irvine
total	Analysis	EPA 7470A		1.0	10L3471	12/30/10 16:36	DB	TestAmerica Irvine

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: Kohala Sugar Company, 12767.063.594.1121

TestAmerica Job ID: HTL0133
SDG: HTL0133

Laboratory	Authority	Program	EPA Region	Certification ID	* Expiration Date
TestAmerica Honolulu		USDA		HON-S-206	01/31/12
TestAmerica Honolulu	Florida	NELAC	4	E87907	06/30/11
TestAmerica Honolulu	Hawaii	State Program	9		06/28/11
TestAmerica Honolulu	L-A-B	DoD ELAP	0	L2250	04/23/13
TestAmerica West Sacramento		US Fish & Wildlife		LE148388-0	02/28/11
TestAmerica West Sacramento		USDA		P330-09-00055	03/19/12
TestAmerica West Sacramento		USEPA		CA00044	10/18/11
TestAmerica West Sacramento	A2LA	A2LA	0	C581	05/05/11
TestAmerica West Sacramento	A2LA	DoD ELAP	0	2928-01	01/31/12
TestAmerica West Sacramento	Alaska	Alaska UST	10	UST-055	12/08/11
TestAmerica West Sacramento	Arizona	State Program	9	AZ0708	08/11/11
TestAmerica West Sacramento	Arkansas	State Program	6	88-0691	06/17/11
TestAmerica West Sacramento	California	NELAC	9	1119CA	01/31/11
TestAmerica West Sacramento	Colorado	State Program	8	N/A	08/31/11
TestAmerica West Sacramento	Connecticut	State Program	1	PH-0691	06/30/11
TestAmerica West Sacramento	Florida	NELAC	4	E87570	06/30/11
TestAmerica West Sacramento	Georgia	State Program	4	960	01/31/10
TestAmerica West Sacramento	Guam	State Program	9	N/A	08/31/11
TestAmerica West Sacramento	Hawaii	State Program	9	N/A	01/31/11
TestAmerica West Sacramento	Illinois	NELAC	5	200060	03/17/11
TestAmerica West Sacramento	Kansas	NELAC	7	E-10375	10/31/11
TestAmerica West Sacramento	Louisiana	NELAC	6	30612	06/30/11
TestAmerica West Sacramento	Michigan	State Program	5	9947	01/31/11
TestAmerica West Sacramento	Nevada	State Program	9	CA44	07/31/11
TestAmerica West Sacramento	New Jersey	NELAC	2	CA005	06/30/11
TestAmerica West Sacramento	New Mexico	State Program	6	N/A	01/31/11
TestAmerica West Sacramento	New York	NELAC	2	11666	04/01/11
TestAmerica West Sacramento	Oregon	NELAC	10	CA200005	03/28/11
TestAmerica West Sacramento	Pennsylvania	NELAC	3	68-01272	03/31/11
TestAmerica West Sacramento	South Carolina	State Program	4	87014	01/31/11
TestAmerica West Sacramento	Texas	NELAC	6	T104704399-08-TX	05/31/11
TestAmerica West Sacramento	Utah	NELAC	8	QUAN1	01/31/11
TestAmerica West Sacramento	Virginia	State Program	3	178	06/30/11
TestAmerica West Sacramento	Washington	State Program	10	C1281	05/05/11
TestAmerica West Sacramento	West Virginia	State Program	3	334	07/31/11
TestAmerica West Sacramento	West Virginia	State Program	3	9930C	12/31/10
TestAmerica West Sacramento	Wisconsin	State Program	5	998204680	08/31/11
TestAmerica West Sacramento	Wyoming	State Program	8	8TMS-Q	01/31/11
TestAmerica Irvine		USDA		P330-09-00080	04/29/12
TestAmerica Irvine	Arizona	State Program	9	AZ0671	10/13/11
TestAmerica Irvine	California	LA Cty Sanitation Districts	9	10256	01/31/12
TestAmerica Irvine	California	NELAC	9	1108CA	01/31/12
TestAmerica Irvine	California	State Program	9	2706	06/30/12
TestAmerica Irvine	Guam	State Program	9	Cert. No. 10.001r	01/23/11
TestAmerica Irvine	Hawaii	State Program	9	N/A	01/31/11
TestAmerica Irvine	Nevada	State Program	9	CA015312007A	07/31/11
TestAmerica Irvine	New Mexico	State Program	6	N/A	01/31/11
TestAmerica Irvine	Northern Mariana Islands	State Program	9	MP0002	01/31/11

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.
* Any expired certifications in this list are currently pending renewal and are considered valid.

Method Summary

Client: Weston Solutions, Inc.
Project/Site: Kohala Sugar Company, 12767.063.594.1121

TestAmerica Job ID: HTL0133
SDG: HTL0133

Method	Method Description	Protocol	Laboratory
EPA 8270	Semivolatile Organics Compounds by EPA 8270		TAL HON
EPA 8270 SIM	PAH Compounds by EPA Method 8270 SIM		TAL HON
EPA 8270C-SIM	POLYNUCLEAR AROMATIC HYDROCARBONS BY GC/MS		TAL IRV
EPA 8270C-SIM	POLYNUCLEAR AROMATIC HYDROCARBONS BY GC/MS		TAL IRV
EPA 8081A	ORGANOCHLORINE PESTICIDES (EPA 3546/8081A)		TAL IRV
EPA 8081A	ORGANOCHLORINE PESTICIDES (EPA 3546/8081A)		TAL IRV
EPA 8081A	ORGANOCHLORINE PESTICIDES (EPA 3510C/8081A)		TAL IRV
EPA 8081A	ORGANOCHLORINE PESTICIDES (EPA 3510C/8081A)		TAL IRV
8290	Dioxins/Furans, HRGC/HRMS (8290)	SW846	TAL WSC
EPA 6010	Total Metals by EPA Method 6010/7471		TAL HON
EPA 6010	Bio-available Metals		TAL HON
EPA 6010B	METALS		TAL IRV
EPA 6010B	METALS		TAL IRV
EPA 7470A	METALS		TAL IRV
EPA 7470A	METALS		TAL IRV
EPA 7471	Total Metals by EPA Method 6010/7471		TAL HON
SBRC Appendix C Rev. #8	Bio-available Metals		TAL HON
SM2540B MOD.	INORGANICS		TAL IRV
SM2540B MOD.	INORGANICS		TAL IRV
SM 2540G	General Chemistry Parameters		TAL HON

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HON = TestAmerica Honolulu, 99-193 Aiea Heights Drive, Suite 121, Aiea, HI 96701, TEL 808-486-5227

TAL IRV = TestAmerica Irvine, 17461 Derian Avenue Suite 100, Irvine, CA 92614, TEL (949) 261-1022

TAL WSC = TestAmerica West Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica - Honolulu
99-193 Aiea Heights Drive Suite 121 • Aiea, HI 96701-3900
808-486-LABS (5227) • Fax 808-486-2456

LABORATORY USE ONLY
LAB JOB NO. HTL0133
LOCATION
CONTAINERS

Chain of Custody / Analysis Request Form

Report to: Ben Castellana
Company name: Weston Solutions
Address: 428 13th St 6th Floor, Unit B
City: Oakland State: CA ZIP: 94612
Phone: 818.350.7309 Fax:
Sampler: ACR, SDF # samples in shipment: 15

Project identification
Job name: Kohala Sugar Plantation
Job number: 12612767.063.594.1121
P.O. number:
Contact email address: Ben.Castellana@westonsolutions.com
Date results needed:

Indicate analyses requested: PAHs-SIMS (8270D); RCRA Metals (6010); Pesticides (8081); Dioxin/Furans (8290 - WHO 2005)

Item no.	Client sample ID	COMP	GRAB	Matrix: Water	Soil	Wastewater	Drinking water	Sludge	Liquid	Solid	Oil	Other	Preservation method	Sampling Date	Time	No. of containers	PAHs-SIMS (8270D)	RCRA Metals (6010)	Pesticides (8081)	Dioxin/Furans (8290 - WHO 2005)	Laboratory ID no.
1	DU-07				X								ICE	12/13/10	1045	1	X	X	X	X	HTL0133-01
2	DU-8				X								↓	12/13/10	1645	1	X	X	X	X	-02
3	DU-18				X								↓	12/13/10	1430	1	X	X	X	X	-03
4	DU-19				X								ICE	12/13/10	1755	1	X	X	X	X	-04
5	EQ-1			X									Various	12/13/10	1710	4	X	X	X	X	-05
6	DU-10				X								ICE	12/14/10	1020	1	X	X	X	X	-06
7	DU-5-2				X								↓	12/14/10	1145	1	X	X	X	X	-07
8	DU-6-2				X								↓	12/14/10	1350	1	X	X	X	X	MS/MSD -08
9	DU-9-2				X								ICE	12/14/10	1500	1	X	X	X	X	-09
10	EQ-2			X									Various	12/14/10	1510	3	X	X	X		-10

Released by (print / sign)	Date / time released	Delivery method	Received by (print / sign)	Company / Agency affiliation	Date / time received	Condition noted
Anthony Rodriguez / [signature]	12/16/10 1100	~~Hand~~ Aloha Air	M Kalotk / [signature]	Testamerica	12/17/10 15:05	Intact 2°C
	/				/	
	/				/	

Comments: See Attachment

Please check one:
☐ Dispose by lab
☐ Return to client
☐ Archive

COC REV 08/2006 Distribution: White - TestAmerica Yellow - TestAmerica Pink - Client

Page 1 of 2

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica - Honolulu
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808-486-LABS (5227) • Fax 808-486-2456

LABORATORY USE ONLY
LAB JOB NO. HTL0133
LOCATION
CONTAINERS

Chain of Custody / Analysis Request Form

Report to: Ben Castellana
Company name: Westan Solutions
Address: 428 13th St 6th Floor, Unit B
City: Oakland State: Ca ZIP: 94612
Phone: 818.350.7309 Fax:
Sampler: AZR, SDF # samples in shipment: 15

Project identification
Job name: Kokala Sugar Plantation
Job number: 12767.063.594.1121
P.O. number:
Contact email address: Ben.Castellana@westansolutions.com
Date results needed:

Indicate analyses requested

Item no.	Client sample ID	COMP	GRAB	Matrix: Water	Soil	Wastewater	Drinking water	Sludge	Liquid	Solid	Oil	Other	Preservation method	Sampling Date	Time	No. of containers	PAHs SIMS (8270D)	RCRA Metals (6010)	Pesticides (8081)	Dioxin/Furans (8290 - WHO 2005)	Laboratory ID no.
1	DU-13-4				X								ICE	12/15/10	1130	1	X	X	X	X	HTL0133-11
2	DU-12-4				X								ICE	12/15/10	1150	1	X	X	X	X	-12
3	EQ-3			X									Various	12/15/10	1205	3	X	X	X		-13
4	DU-11				X								ICE	12/15/10	1505	1	X	X	X	X	-14
5	DU-20				X								ICE	12/15/10	1610	1	X	X	X	X	-15
6	TS-1			X									Various	12/15/10	1700	3	X	X	X		-16
7																					-17
8																					
9																					
10																					

Released by (print / sign)	Date / time released	Delivery method	Received by (print / sign)	Company / Agency affiliation	Date / time received	Condition noted
Anthony Rodriguez / AR	12/16/10 1100	Hand	MHeskett / MDR	Testamerica	12/17/10 15:05	Intact 2°C
	/				/	
	/				/	

Comments: See Attachment

Please check one:
☐ Dispose by lab
☐ Return to client
☐ Archive

COC REV 08/2006 Distribution: White - TestAmerica Yellow - TestAmerica Pink - Client

Page 2 of 2

TestAmerica

Rush TAT Confirmation (Initial/Date) N/A

Sample Receipt Checklist

Client Name: Weston Date/ Time Received: 12/17/10

Received By:

Matrices: Carrier: Airbill# :

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Chain of Custody present?	Yes ☑	No ☐	☐
Chain of Custody Signed when relinquished and received?	Yes ☑	No ☐	
Chain of Custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sample containers on ice?	Yes ☑	No ☐	Type: wet
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Water - VOA Vials have Zero Headspace?	Yes ☑	No ☐	No VOA vials present: ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Checked: ☑
pH Adjusted?	Yes ☐	No ☑	Final pH:
Encores / MI-VOC / 5035 Vials Present?	Yes ☐	No ☑	Location:
Sample Filtration Needed?	Yes ☐	No ☑	Filtered in Field: ☐
Dry Weight Corrected Results?	Yes ☑	No ☐	Take Action: ☐
DODQSM / QAPP Project?	Yes ☐	No ☑	Type:

Temperature Blank Present? Yes ☐ No ☐

Sample Container Temperature: 2 °C

Comments/ Sampling Handling Notes:

Note Wet MI special handling

Anthony (Per discussion w/ Ben C. on 12/10/10)

For Subsurface Samples ONLY:

ON CHAIN of Custody / Analysis Request Form —
Request that mercury and SVOCs sub-samples
Be subsampled wet & wet sieved to <2 mm before analysis
~~(Balance of Mercury Sample~~ Also request a
moisture analysis sample for these analyses.
(Balance of entire MRS sample can be
air dried, sieved with standard sieve (<2mm),
and sub sampled for other metals,
Dioxins/Furans, and organochlorine pesticides.

→ Add note regarding arsenic analyses: After
Total arsenic results are available, please
send to John Pennel (Herrington) and Ben Castellana
(Newton Project Manager) who will review and
let LAB know which ~~ones are~~ samples are
also to be ~~run for~~ sub sampled again,
sieved to <250 microns, and run for
Bio Accessible Arsenic.

APPENDIX C

LABORATORY REPORT FOR DECEMBER 2010 HDOH SAMPLING EVENT

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Honolulu
99-193 Aiea Heights Drive, Suite 121
Aiea, HI 96701
Tel: 808-486-5227

TestAmerica Job ID: HTL0124
TestAmerica Sample Delivery Group: HTL0124
Client Project/Site: [none]
Client Project Description: Kohala PMA

For:
Department of Health, HEER Office
919 Ala Moana Boulevard, Room 206
Honolulu, HI 96814

Attn: John Peard

Authorized for release by:
1/21/2011 12:54 PM

Marvin D. Heskett III
Laboratory Director
marvin.heskett@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

LINKS
Review your project results through TotalAccess
Have a Question? Ask The Expert
Visit us at: www.testamericainc.com

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Qualifier Definition/Glossary

Client: Department of Health, HEER Office
Project/Site: [none]

TestAmerica Job ID: HTL0124
SDG: HTL0124

Qualifiers

GCMS Semivolatiles

Qualifier	Qualifier Description
J	Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
M1	The MS and/or MSD were outside the acceptance limits due to sample matrix interference. See Blank Spike (LCS).

GC Semivolatiles

Qualifier	Qualifier Description
J	Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
M1	The MS and/or MSD were outside the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
M4	The sample required a dilution due to matrix interference. Because of this dilution, the matrix spike concentrations in the sample were reduced to a level where the recovery calculation does not provide useful information. See Blank Spike (LCS).
R1	The RPD between the primary and confirmatory analysis exceeded 40% and the higher value was reported.
R10	The RPD between the primary and confirmatory analysis exceeded 40% and the lower value was reported.
RL1	Reporting limit raised due to sample matrix effects.
Z	Due to sample matrix effects, the surrogate recovery was below the acceptance limits.
Z1	Surrogate recovery was above acceptance limits.
Z9	Unable to calculate surrogate recovery due to matrix interference.

DIOXIN

Qualifier	Qualifier Description
E	Estimated result. Result concentration exceeds the calibration range.

Metals

Qualifier	Qualifier Description
J	Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
M1	The MS and/or MSD were outside the acceptance limits due to sample matrix interference. See Blank Spike (LCS).

Glossary

Glossary	Glossary Description
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis.

Job ID: HTL0124

Laboratory: TestAmerica Honolulu

Narrative

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory unless otherwise stated in the report. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. TestAmerica Analytical Testing Corporation certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

The Chain(s) of Custody are included and are an integral part of this report. This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(808)486-5227

LABORATORY REPORT

The Cooler 2 C at receipt.
NELAC states that samples which require thermal preservation shall be considered acceptable if the arrival temperature is within 2 degrees C of the required temperature or the method specified range. For samples with a temperature requirement of 4 degrees C, an arrival temperature from 0 degrees C to 6 degrees C meets specifications. Samples that are delivered to the laboratory on the same day that they are collected may not meet these criteria. In these cases, the samples are considered acceptable if there is evidence that the chilling process has begun, such as arrival on ice.

The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

Samples were prepared in accordance with the State of Hawai'i Department of Health Office of Hazard Evaluation and Emergency Response's Technical Guidance Manual for the Implementation of the Hawai`i State Contingency Plan 2009 edition Laboratory Preparation of Multi-Increment Samples.

Sample Summary

Client: Department of Health, HEER Office
Project/Site: [none]

TestAmerica Job ID: HTL0124

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
HTL0124-01	KHB-DU-14	Solid/Soil	12/13/10 15:30	12/17/10 16:00
HTL0124-02	KHB-DU-15	Solid/Soil	12/13/10 10:30	12/17/10 16:00
HTL0124-03	KHB-DU-16	Solid/Soil	12/13/10 11:15	12/17/10 16:00
HTL0124-04	KHB-DU-17	Solid/Soil	12/13/10 12:00	12/17/10 16:00

Detection Summary

Client: Department of Health, HEER Office
Project/Site: [none]

TestAmerica Job ID: HTL0124
SDG: HTL0124

Client Sample ID: KHB-DU-14 — Lab Sample ID: HTL0124-01

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.00130	J	0.00652	0.00117	mg/kg	1		EPA 8270 SIM	total
Acenaphthene	0.000977	J	0.00651	0.000902	mg/kg	1		EPA 8270 SIM	total
Acenaphthylene	0.00228	J	0.00652	0.000657	mg/kg	1		EPA 8270 SIM	total
Anthracene	0.00391	J	0.00652	0.00107	mg/kg	1		EPA 8270 SIM	total
Benzo (a) anthracene	0.0948		0.00652	0.00166	mg/kg	1		EPA 8270 SIM	total
Benzo (a) pyrene	0.169		0.00652	0.00274	mg/kg	1		EPA 8270 SIM	total
Benzo (b) fluoranthene	0.272		0.00652	0.00332	mg/kg	1		EPA 8270 SIM	total
Benzo (g,h,i) perylene	0.0619		0.0137	0.00694	mg/kg	1		EPA 8270 SIM	total
Benzo (k) fluoranthene	0.0945		0.00652	0.00134	mg/kg	1		EPA 8270 SIM	total
Chrysene	0.121		0.00652	0.00147	mg/kg	1		EPA 8270 SIM	total
Dibenzo (a,h) anthracene	0.0199		0.00652	0.00586	mg/kg	1		EPA 8270 SIM	total
Fluoranthene	0.151		0.00651	0.00137	mg/kg	1		EPA 8270 SIM	total
Fluorene	0.000977	J	0.00652	0.000977	mg/kg	1		EPA 8270 SIM	total
Indeno (1,2,3-cd) pyrene	0.0655		0.00652	0.00567	mg/kg	1		EPA 8270 SIM	total
Naphthalene	0.00195	J	0.00651	0.000879	mg/kg	1		EPA 8270 SIM	total
Phenanthrene	0.0176		0.00652	0.00127	mg/kg	1		EPA 8270 SIM	total
Pyrene	0.122		0.00652	0.00137	mg/kg	1		EPA 8270 SIM	total
4,4'-DDE	0.00106	J	0.00397	0.000993	mg/kg	1		EPA 8081	total
Chlordane	0.0424	R10	0.0328	0.0139	mg/kg	1		EPA 8081	total
Endosulfan II	0.000960	J	0.00397	0.000795	mg/kg	1		EPA 8081	total
Heptachlor epoxide	0.00219	J	0.00397	0.00109	mg/kg	1		EPA 8081	total
Methoxychlor	0.0213	R1	0.0199	0.00139	mg/kg	1		EPA 8081	total
gamma-Chlordane	0.00152	J	0.00397	0.000993	mg/kg	1		EPA 8081	total
Arsenic	24.6		9.42	0.0753	mg/kg	1		EPA 6010	total
Barium	67.7		18.8	0.0791	mg/kg	1		EPA 6010	total
Cadmium	1.43	J	3.77	0.0763	mg/kg	1		EPA 6010	total
Chromium	126		9.42	0.0687	mg/kg	1		EPA 6010	total
Lead	23.4		18.8	0.0659	mg/kg	1		EPA 6010	total
Silver	0.298	J	9.42	0.00659	mg/kg	1		EPA 6010	total
Mercury	0.629		0.0498	0.000996	mg/kg	10		EPA 7471	total

Analyte	Result	Qualifier	RL	EDL	TEF	TEQ	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	20		4.9	0.12	1	20	pg/g	4.85		8290	Total
Total TCDD	49		4.9	0.12			pg/g	4.85		8290	Total
1,2,3,6,7,8-HxCDD	93		24	0.18	0.1	9.3	pg/g	4.85		8290	Total
1,2,3,7,8,9-HxCDD	46		24	0.17	0.1	4.6	pg/g	4.85		8290	Total
Total HxCDD	580		24	0.18			pg/g	4.85		8290	Total
1,2,3,4,6,7,8-HpCDD	3100		24	15	0.01	31	pg/g	4.85		8290	Total
Total HpCDD	7200		24	15			pg/g	4.85		8290	Total
OCDD	30000	E	49	38	0.001	30	pg/g	4.85		8290	Total
Total TCDF	5.8		4.9	0.41			pg/g	4.85		8290	Total
Total HxCDF	750		24	1.1			pg/g	4.85		8290	Total
1,2,3,4,6,7,8-HpCDF	750		24	3.7	0.01	7.5	pg/g	4.85		8290	Total
1,2,3,4,7,8,9-HpCDF	36		24	4.2	0.01	0.36	pg/g	4.85		8290	Total
Total HpCDF	2800		24	4.0			pg/g	4.85		8290	Total
OCDF	2000		49	3.0	0.001	2.0	pg/g	4.85		8290	Total
Total TEQ						**100**					

Client Sample ID: KHB-DU-15 — Lab Sample ID: HTL0124-02

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.00319	J	0.00639	0.000884	mg/kg	1		EPA 8270 SIM	total
Acenaphthylene	0.00128	J	0.00639	0.000644	mg/kg	1		EPA 8270 SIM	total
Anthracene	0.00192	J	0.00639	0.00105	mg/kg	1		EPA 8270 SIM	total

Client Sample ID: KHB-DU-15 (Continued) — Lab Sample ID: HTL0124-02

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo (a) anthracene	0.0137		0.00639	0.00163	mg/kg	1		EPA 8270 SIM	total
Benzo (a) pyrene	0.0169		0.00639	0.00268	mg/kg	1		EPA 8270 SIM	total
Benzo (b) fluoranthene	0.0294		0.00639	0.00326	mg/kg	1		EPA 8270 SIM	total
Benzo (g,h,i) perylene	0.0102	J	0.0134	0.00681	mg/kg	1		EPA 8270 SIM	total
Benzo (k) fluoranthene	0.00990		0.00639	0.00131	mg/kg	1		EPA 8270 SIM	total
Chrysene	0.0182		0.00639	0.00144	mg/kg	1		EPA 8270 SIM	total
Fluoranthene	0.0374		0.00639	0.00134	mg/kg	1		EPA 8270 SIM	total
Indeno (1,2,3-cd) pyrene	0.00958		0.00639	0.00556	mg/kg	1		EPA 8270 SIM	total
Naphthalene	0.00128	J	0.00639	0.000863	mg/kg	1		EPA 8270 SIM	total
Phenanthrene	0.0169		0.00639	0.00125	mg/kg	1		EPA 8270 SIM	total
Pyrene	0.0230		0.00639	0.00134	mg/kg	1		EPA 8270 SIM	total
4,4'-DDE	0.00111	J	0.00393	0.000984	mg/kg	1		EPA 8081	total
Chlordane	0.0609		0.0325	0.0138	mg/kg	1		EPA 8081	total
delta-BHC	0.00285	J	0.00393	0.00157	mg/kg	1		EPA 8081	total
Heptachlor epoxide	0.00275	J	0.00393	0.00108	mg/kg	1		EPA 8081	total
Methoxychlor	0.00649	J	0.0197	0.00138	mg/kg	1		EPA 8081	total
gamma-Chlordane	0.00180	J	0.00393	0.000984	mg/kg	1		EPA 8081	total
Arsenic	73.5		9.68	0.0774	mg/kg	1		EPA 6010	total
Barium	116		19.4	0.0813	mg/kg	1		EPA 6010	total
Cadmium	1.71	J	3.87	0.0784	mg/kg	1		EPA 6010	total
Chromium	85.0		9.68	0.0707	mg/kg	1		EPA 6010	total
Lead	22.0		19.4	0.0678	mg/kg	1		EPA 6010	total
Silver	0.205	J	9.68	0.00678	mg/kg	1		EPA 6010	total
Mercury	0.731		0.0509	0.00102	mg/kg	10		EPA 7471	total

Analyte	Result	Qualifier	RL	EDL	TEF	TEQ	Unit	Dil Fac	D	Method	Prep Type
1,2,3,6,7,8-HxCDD	320		160	3.8	0.1	32	pg/g	32.25		8290	Total
Total HxCDD	1300		160	3.9			pg/g	32.25		8290	Total
1,2,3,4,6,7,8-HpCDD	11000		160	92	0.01	110	pg/g	32.25		8290	Total
Total HpCDD	23000		160	92			pg/g	32.25		8290	Total
OCDD	100000		320	130	0.001	100	pg/g	32.25		8290	Total
Total HxCDF	3700		160	4.9			pg/g	32.25		8290	Total
1,2,3,4,6,7,8-HpCDF	4000		160	26	0.01	40	pg/g	32.25		8290	Total
1,2,3,4,7,8,9-HpCDF	260		160	30	0.01	2.6	pg/g	32.25		8290	Total
Total HpCDF	16000		160	28			pg/g	32.25		8290	Total
OCDF	10000		320	16	0.001	10	pg/g	32.25		8290	Total
Total TEQ						**290**					

Client Sample ID: KHB-DU-16 — Lab Sample ID: HTL0124-03

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.00127	J	0.00633	0.00114	mg/kg	1		EPA 8270 SIM	total
Acenaphthylene	0.00222	J	0.00633	0.000638	mg/kg	1		EPA 8270 SIM	total
Anthracene	0.00411	J	0.00633	0.00104	mg/kg	1		EPA 8270 SIM	total
Benzo (a) anthracene	0.0494		0.00633	0.00161	mg/kg	1		EPA 8270 SIM	total
Benzo (a) pyrene	0.0725		0.00633	0.00266	mg/kg	1		EPA 8270 SIM	total
Benzo (b) fluoranthene	0.112		0.00633	0.00323	mg/kg	1		EPA 8270 SIM	total
Benzo (g,h,i) perylene	0.0402		0.0133	0.00674	mg/kg	1		EPA 8270 SIM	total
Benzo (k) fluoranthene	0.0405		0.00633	0.00130	mg/kg	1		EPA 8270 SIM	total
Chrysene	0.0598		0.00633	0.00142	mg/kg	1		EPA 8270 SIM	total
Dibenzo (a,h) anthracene	0.0108		0.00633	0.00570	mg/kg	1		EPA 8270 SIM	total
Fluoranthene	0.0839		0.00633	0.00133	mg/kg	1		EPA 8270 SIM	total
Fluorene	0.000949	J	0.00633	0.000949	mg/kg	1		EPA 8270 SIM	total
Indeno (1,2,3-cd) pyrene	0.0392		0.00633	0.00551	mg/kg	1		EPA 8270 SIM	total

Client Sample ID: KHB-DU-16 (Continued) — Lab Sample ID: HTL0124-03

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.00190	J	0.00633	0.000854	mg/kg	1		EPA 8270 SIM	total
Phenanthrene	0.0215		0.00633	0.00123	mg/kg	1		EPA 8270 SIM	total
Pyrene	0.0551		0.00633	0.00133	mg/kg	1		EPA 8270 SIM	total
Chlordane	0.0536		0.0310	0.0132	mg/kg	1		EPA 8081	total
delta-BHC	0.00558		0.00376	0.00150	mg/kg	1		EPA 8081	total
Heptachlor epoxide	0.00301	J	0.00376	0.00103	mg/kg	1		EPA 8081	total
Methoxychlor	0.00539	J	0.0188	0.00132	mg/kg	1		EPA 8081	total
gamma-Chlordane	0.00179	J	0.00376	0.000940	mg/kg	1		EPA 8081	total
Arsenic	151		9.74	0.0779	mg/kg	1		EPA 6010	total
Barium	112		19.5	0.0818	mg/kg	1		EPA 6010	total
Cadmium	1.71	J	3.89	0.0789	mg/kg	1		EPA 6010	total
Chromium	85.2		9.74	0.0711	mg/kg	1		EPA 6010	total
Lead	29.0		19.5	0.0682	mg/kg	1		EPA 6010	total
Silver	0.467	J	9.74	0.00682	mg/kg	1		EPA 6010	total
Mercury	1.06		0.0446	0.000893	mg/kg	10		EPA 7471	total

Analyte	Result	Qualifier	RL	EDL	TEF	TEQ	Unit	Dil Fac	D	Method	Prep Type
1,2,3,6,7,8-HxCDD	950		240	8.3	0.1	95	pg/g	47.61		8290	Total
1,2,3,7,8,9-HxCDD	270		240	7.8	0.1	27	pg/g	47.61		8290	Total
Total HxCDD	3700		240	8.6			pg/g	47.61		8290	Total
1,2,3,4,6,7,8-HpCDD	21000		240	90	0.01	210	pg/g	47.61		8290	Total
Total HpCDD	44000		240	90			pg/g	47.61		8290	Total
OCDD	200000	E	480	220	0.001	200	pg/g	47.61		8290	Total
Total PeCDF	250		240	7.5			pg/g	47.61		8290	Total
Total HxCDF	7400		240	8.1			pg/g	47.61		8290	Total
1,2,3,4,6,7,8-HpCDF	6200		240	52	0.01	62	pg/g	47.61		8290	Total
1,2,3,4,7,8,9-HpCDF	470		240	59	0.01	4.7	pg/g	47.61		8290	Total
Total HpCDF	24000		240	55			pg/g	47.61		8290	Total
OCDF	15000		480	27	0.001	15	pg/g	47.61		8290	Total
Total TEQ						**610**					

Client Sample ID: KHB-DU-17 — Lab Sample ID: HTL0124-04

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.00132	J	0.00663	0.00119	mg/kg	1		EPA 8270 SIM	total
Acenaphthene	0.00331	J	0.00662	0.000917	mg/kg	1		EPA 8270 SIM	total
Acenaphthylene	0.00232	J	0.00663	0.000668	mg/kg	1		EPA 8270 SIM	total
Anthracene	0.00199	J	0.00663	0.00109	mg/kg	1		EPA 8270 SIM	total
Benzo (a) anthracene	0.0179		0.00663	0.00169	mg/kg	1		EPA 8270 SIM	total
Benzo (a) pyrene	0.0235		0.00663	0.00278	mg/kg	1		EPA 8270 SIM	total
Benzo (b) fluoranthene	0.0450		0.00663	0.00338	mg/kg	1		EPA 8270 SIM	total
Benzo (g,h,i) perylene	0.0119	J	0.0139	0.00705	mg/kg	1		EPA 8270 SIM	total
Benzo (k) fluoranthene	0.0106		0.00663	0.00136	mg/kg	1		EPA 8270 SIM	total
Chrysene	0.0281		0.00663	0.00149	mg/kg	1		EPA 8270 SIM	total
Fluoranthene	0.0477		0.00662	0.00139	mg/kg	1		EPA 8270 SIM	total
Indeno (1,2,3-cd) pyrene	0.0116		0.00663	0.00576	mg/kg	1		EPA 8270 SIM	total
Naphthalene	0.00166	J	0.00662	0.000894	mg/kg	1		EPA 8270 SIM	total
Phenanthrene	0.0139		0.00663	0.00129	mg/kg	1		EPA 8270 SIM	total
Pyrene	0.0305		0.00663	0.00139	mg/kg	1		EPA 8270 SIM	total
4,4'-DDD	0.00175	J	0.00388	0.00107	mg/kg	1		EPA 8081	total
4,4'-DDE	0.00379	J	0.00388	0.000971	mg/kg	1		EPA 8081	total
Chlordane	0.0586		0.0320	0.0136	mg/kg	1		EPA 8081	total
delta-BHC	0.00385	J	0.00388	0.00155	mg/kg	1		EPA 8081	total
Endosulfan II	0.000971	J	0.00388	0.000777	mg/kg	1		EPA 8081	total

Client Sample ID: KHB-DU-17 (Continued) — Lab Sample ID: HTL0124-04

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Endrin aldehyde	0.00249	J	0.00388	0.000680	mg/kg	1		EPA 8081	total
gamma-BHC (Lindane)	0.00320	J	0.00388	0.00117	mg/kg	1		EPA 8081	total
Methoxychlor	0.00887	J	0.0194	0.00136	mg/kg	1		EPA 8081	total
gamma-Chlordane	0.00126	J	0.00388	0.000971	mg/kg	1		EPA 8081	total
Arsenic	115		9.77	0.0781	mg/kg	1		EPA 6010	total
Barium	114		19.5	0.0820	mg/kg	1		EPA 6010	total
Cadmium	1.97	J	3.91	0.0791	mg/kg	1		EPA 6010	total
Chromium	90.2		9.77	0.0713	mg/kg	1		EPA 6010	total
Lead	27.6		19.5	0.0684	mg/kg	1		EPA 6010	total
Mercury	1.08		0.0436	0.000873	mg/kg	10		EPA 7471	total

Analyte	Result	Qualifier	RL	EDL	TEF	TEQ	Unit	Dil Fac	D	Method	Prep Type
1,2,3,6,7,8-HxCDD	560		230	5.1	0.1	56	pg/g	45.45		8290	Total
Total HxCDD	2100		230	5.3			pg/g	45.45		8290	Total
1,2,3,4,6,7,8-HpCDD	13000		230	82	0.01	130	pg/g	45.45		8290	Total
Total HpCDD	26000		230	82			pg/g	45.45		8290	Total
OCDD	130000		450	220	0.001	130	pg/g	45.45		8290	Total
Total HxCDF	4700		230	6.2			pg/g	45.45		8290	Total
1,2,3,4,6,7,8-HpCDF	4200		230	21	0.01	42	pg/g	45.45		8290	Total
1,2,3,4,7,8,9-HpCDF	260		230	24	0.01	2.6	pg/g	45.45		8290	Total
Total HpCDF	16000		230	22			pg/g	45.45		8290	Total
OCDF	9600		450	18	0.001	9.6	pg/g	45.45		8290	Total
Total TEQ						**370**					

Client Sample ID: KHB-DU-14

Date Collected: 12/13/10 15:30
Date Received: 12/17/10 16:00

Lab Sample ID: HTL0124-01

Matrix: Solid/Soil

Method: EPA 8270 SIM - PAH Compounds by EPA Method 8270 SIM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.00652	0.00195	mg/kg		12/23/10 09:07	12/29/10 14:10	1
2-Methylnaphthalene	**0.00130**	**J**	0.00652	0.00117	mg/kg		12/23/10 09:07	12/29/10 14:10	1
Acenaphthene	**0.000977**	**J**	0.00651	0.000902	mg/kg		12/23/10 09:07	12/29/10 14:10	1
Acenaphthylene	**0.00228**	**J**	0.00652	0.000657	mg/kg		12/23/10 09:07	12/29/10 14:10	1
Anthracene	**0.00391**	**J**	0.00652	0.00107	mg/kg		12/23/10 09:07	12/29/10 14:10	1
Benzo (a) anthracene	**0.0948**		0.00652	0.00166	mg/kg		12/23/10 09:07	12/29/10 14:10	1
Benzo (a) pyrene	**0.169**		0.00652	0.00274	mg/kg		12/23/10 09:07	12/29/10 14:10	1
Benzo (b) fluoranthene	**0.272**		0.00652	0.00332	mg/kg		12/23/10 09:07	12/29/10 14:10	1
Benzo (g,h,i) perylene	**0.0619**		0.0137	0.00694	mg/kg		12/23/10 09:07	12/29/10 14:10	1
Benzo (k) fluoranthene	**0.0945**		0.00652	0.00134	mg/kg		12/23/10 09:07	12/29/10 14:10	1
Chrysene	**0.121**		0.00652	0.00147	mg/kg		12/23/10 09:07	12/29/10 14:10	1
Dibenzo (a,h) anthracene	**0.0199**		0.00652	0.00586	mg/kg		12/23/10 09:07	12/29/10 14:10	1
Fluoranthene	**0.151**		0.00651	0.00137	mg/kg		12/23/10 09:07	12/29/10 14:10	1
Fluorene	**0.000977**	**J**	0.00652	0.000977	mg/kg		12/23/10 09:07	12/29/10 14:10	1
Indeno (1,2,3-cd) pyrene	**0.0655**		0.00652	0.00567	mg/kg		12/23/10 09:07	12/29/10 14:10	1
Naphthalene	**0.00195**	**J**	0.00651	0.000879	mg/kg		12/23/10 09:07	12/29/10 14:10	1
Phenanthrene	**0.0176**		0.00652	0.00127	mg/kg		12/23/10 09:07	12/29/10 14:10	1
Pyrene	**0.122**		0.00652	0.00137	mg/kg		12/23/10 09:07	12/29/10 14:10	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*35 - 120*	*12/23/10 09:07*	*12/29/10 14:10*	*1*
Nitrobenzene-d5	*70*		*30 - 120*	*12/23/10 09:07*	*12/29/10 14:10*	*1*
Terphenyl-d14	*73*		*50 - 120*	*12/23/10 09:07*	*12/29/10 14:10*	*1*

Method: EPA 8081 - Organochlorine Pesticides by EPA Method 8081

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.00397	0.00109	mg/kg		12/22/10 10:44	01/17/11 13:46	1
4,4'-DDE	**0.00106**	**J**	0.00397	0.000993	mg/kg		12/22/10 10:44	01/17/11 13:46	1
4,4'-DDT	ND		0.00397	0.000695	mg/kg		12/22/10 10:44	01/17/11 13:46	1
Aldrin	ND		0.00397	0.00149	mg/kg		12/22/10 10:44	01/17/11 13:46	1
alpha-BHC	ND		0.00397	0.00179	mg/kg		12/22/10 10:44	01/17/11 13:46	1
beta-BHC	ND		0.00397	0.00169	mg/kg		12/22/10 10:44	01/17/11 13:46	1
Chlordane	**0.0424**	**R10**	0.0328	0.0139	mg/kg		12/22/10 10:44	01/17/11 13:46	1
delta-BHC	ND		0.00397	0.00159	mg/kg		12/22/10 10:44	01/17/11 13:46	1
Dieldrin	ND		0.00397	0.00139	mg/kg		12/22/10 10:44	01/17/11 13:46	1
Endosulfan I	ND		0.00397	0.00149	mg/kg		12/22/10 10:44	01/17/11 13:46	1
Endosulfan II	**0.000960**	**J**	0.00397	0.000795	mg/kg		12/22/10 10:44	01/17/11 13:46	1
Endosulfan sulfate	ND		0.00397	0.000993	mg/kg		12/22/10 10:44	01/17/11 13:46	1
Endrin	ND		0.00397	0.000993	mg/kg		12/22/10 10:44	01/17/11 13:46	1
Endrin aldehyde	ND		0.00397	0.000695	mg/kg		12/22/10 10:44	01/17/11 13:46	1
Endrin ketone	ND		0.00397	0.00169	mg/kg		12/22/10 10:44	01/17/11 13:46	1
gamma-BHC (Lindane)	ND		0.00397	0.00119	mg/kg		12/22/10 10:44	01/17/11 13:46	1
Heptachlor	ND		0.00397	0.00139	mg/kg		12/22/10 10:44	01/17/11 13:46	1
Heptachlor epoxide	**0.00219**	**J**	0.00397	0.00109	mg/kg		12/22/10 10:44	01/17/11 13:46	1
Methoxychlor	**0.0213**	**R1**	0.0199	0.00139	mg/kg		12/22/10 10:44	01/17/11 13:46	1
Toxaphene	ND		0.0497	0.0497	mg/kg		12/22/10 10:44	01/17/11 13:46	1
alpha-Chlordane	ND		0.00397	0.00179	mg/kg		12/22/10 10:44	01/17/11 13:46	1
gamma-Chlordane	**0.00152**	**J**	0.00397	0.000993	mg/kg		12/22/10 10:44	01/17/11 13:46	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*84*		*45 - 120*	*12/22/10 10:44*	*01/17/11 13:46*	*1*

Client Sample ID: KHB-DU-14

Date Collected: 12/13/10 15:30
Date Received: 12/17/10 16:00

Lab Sample ID: HTL0124-01

Matrix: Solid/Soil

Method: EPA 8081 - Organochlorine Pesticides by EPA Method 8081 (Continued)

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-meta-xylene	*58*		*50 - 120*	*12/22/10 10:44*	*01/17/11 13:46*	*1*

Method: 8290 - Dioxins/Furans, HRGC/HRMS (8290)

Analyte	Result	Qualifier	RL	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	**20**		4.9	0.12	1	20	pg/g		12/29/10 18:00	01/06/11 17:28	4.85
Total TCDD	**49**		4.9	0.12			pg/g		12/29/10 18:00	01/06/11 17:28	4.85
1,2,3,7,8-PeCDD	ND		24	0.74	0.5		pg/g		12/29/10 18:00	01/06/11 17:28	4.85
Total PeCDD	ND		24	0.74			pg/g		12/29/10 18:00	01/06/11 17:28	4.85
1,2,3,4,7,8-HxCDD	ND		24	0.21	0.1		pg/g		12/29/10 18:00	01/06/11 17:28	4.85
1,2,3,6,7,8-HxCDD	**93**		24	0.18	0.1	9.3	pg/g		12/29/10 18:00	01/06/11 17:28	4.85
1,2,3,7,8,9-HxCDD	**46**		24	0.17	0.1	4.6	pg/g		12/29/10 18:00	01/06/11 17:28	4.85
Total HxCDD	**580**		24	0.18			pg/g		12/29/10 18:00	01/06/11 17:28	4.85
1,2,3,4,6,7,8-HpCDD	**3100**		24	15	0.01	31	pg/g		12/29/10 18:00	01/06/11 17:28	4.85
Total HpCDD	**7200**		24	15			pg/g		12/29/10 18:00	01/06/11 17:28	4.85
OCDD	**30000**	**E**	49	38	0.001	30	pg/g		12/29/10 18:00	01/06/11 17:28	4.85
2,3,7,8-TCDF	ND		4.9	0.41	0.1		pg/g		12/29/10 18:00	01/06/11 17:28	4.85
Total TCDF	**5.8**		4.9	0.41			pg/g		12/29/10 18:00	01/06/11 17:28	4.85
1,2,3,7,8-PeCDF	ND		24	0.84	0.05		pg/g		12/29/10 18:00	01/06/11 17:28	4.85
2,3,4,7,8-PeCDF	ND		24	0.85	0.5		pg/g		12/29/10 18:00	01/06/11 17:28	4.85
Total PeCDF	ND		24	0.84			pg/g		12/29/10 18:00	01/06/11 17:28	4.85
1,2,3,4,7,8-HxCDF	ND		24	1.2	0.1		pg/g		12/29/10 18:00	01/06/11 17:28	4.85
1,2,3,6,7,8-HxCDF	ND		24	1.0	0.1		pg/g		12/29/10 18:00	01/06/11 17:28	4.85
2,3,4,6,7,8-HxCDF	ND		24	1.1	0.1		pg/g		12/29/10 18:00	01/06/11 17:28	4.85
1,2,3,7,8,9-HxCDF	ND		24	1.2	0.1		pg/g		12/29/10 18:00	01/06/11 17:28	4.85
Total HxCDF	**750**		24	1.1			pg/g		12/29/10 18:00	01/06/11 17:28	4.85
1,2,3,4,6,7,8-HpCDF	**750**		24	3.7	0.01	7.5	pg/g		12/29/10 18:00	01/06/11 17:28	4.85
1,2,3,4,7,8,9-HpCDF	**36**		24	4.2	0.01	0.36	pg/g		12/29/10 18:00	01/06/11 17:28	4.85
Total HpCDF	**2800**		24	4.0			pg/g		12/29/10 18:00	01/06/11 17:28	4.85
OCDF	**2000**		49	3.0	0.001	2.0	pg/g		12/29/10 18:00	01/06/11 17:28	4.85
Total TEQ						**100**					

Internal Standard	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	*93*		*40 - 135*	*12/29/10 18:00*	*01/06/11 17:28*	*4.85*
13C-1,2,3,7,8-PeCDD	*96*		*40 - 135*	*12/29/10 18:00*	*01/06/11 17:28*	*4.85*
13C-1,2,3,6,7,8-HxCDD	*108*		*40 - 135*	*12/29/10 18:00*	*01/06/11 17:28*	*4.85*
13C-1,2,3,4,6,7,8-HpCDD	*90*		*40 - 135*	*12/29/10 18:00*	*01/06/11 17:28*	*4.85*
13C-OCDD	*119*		*40 - 135*	*12/29/10 18:00*	*01/06/11 17:28*	*4.85*
13C-2,3,7,8-TCDF	*96*		*40 - 135*	*12/29/10 18:00*	*01/06/11 17:28*	*4.85*
13C-1,2,3,7,8-PeCDF	*98*		*40 - 135*	*12/29/10 18:00*	*01/06/11 17:28*	*4.85*
13C-1,2,3,4,7,8-HxCDF	*101*		*40 - 135*	*12/29/10 18:00*	*01/06/11 17:28*	*4.85*
13C-1,2,3,4,6,7,8-HpCDF	*103*		*40 - 135*	*12/29/10 18:00*	*01/06/11 17:28*	*4.85*

Method: EPA 6010 - Total Metals by EPA Method 6010/7471

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**24.6**		9.42	0.0753	mg/kg		12/28/10 12:13	01/12/11 12:36	1
Barium	**67.7**		18.8	0.0791	mg/kg		12/28/10 12:13	01/12/11 12:36	1
Cadmium	**1.43**	**J**	3.77	0.0763	mg/kg		12/28/10 12:13	01/12/11 12:36	1
Chromium	**126**		9.42	0.0687	mg/kg		12/28/10 12:13	01/12/11 12:36	1

Client Sample ID: KHB-DU-14

Date Collected: 12/13/10 15:30
Date Received: 12/17/10 16:00

Lab Sample ID: HTL0124-01
Matrix: Solid/Soil

Method: EPA 6010 - Total Metals by EPA Method 6010/7471 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**23.4**		18.8	0.0659	mg/kg		12/28/10 12:13	01/12/11 12:36	1
Selenium	ND		18.8	0.0847	mg/kg		12/28/10 12:13	01/12/11 12:36	1
Silver	**0.298**	**J**	9.42	0.00659	mg/kg		12/28/10 12:13	01/12/11 12:36	1

Method: EPA 7471 - Total Metals by EPA Method 6010/7471

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.629**		0.0498	0.000996	mg/kg		01/10/11 09:35	01/10/11 14:52	10

Client Sample ID: KHB-DU-15

Date Collected: 12/13/10 10:30
Date Received: 12/17/10 16:00

Lab Sample ID: HTL0124-02
Matrix: Solid/Soil

Method: EPA 8270 SIM - PAH Compounds by EPA Method 8270 SIM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.00639	0.00192	mg/kg		12/23/10 09:07	12/30/10 15:23	1
2-Methylnaphthalene	ND		0.00639	0.00115	mg/kg		12/23/10 09:07	12/30/10 15:23	1
Acenaphthene	**0.00319**	**J**	0.00639	0.000884	mg/kg		12/23/10 09:07	12/30/10 15:23	1
Acenaphthylene	**0.00128**	**J**	0.00639	0.000644	mg/kg		12/23/10 09:07	12/30/10 15:23	1
Anthracene	**0.00192**	**J**	0.00639	0.00105	mg/kg		12/23/10 09:07	12/30/10 15:23	1
Benzo (a) anthracene	**0.0137**		0.00639	0.00163	mg/kg		12/23/10 09:07	12/30/10 15:23	1
Benzo (a) pyrene	**0.0169**		0.00639	0.00268	mg/kg		12/23/10 09:07	12/30/10 15:23	1
Benzo (b) fluoranthene	**0.0294**		0.00639	0.00326	mg/kg		12/23/10 09:07	12/30/10 15:23	1
Benzo (g,h,i) perylene	**0.0102**	**J**	0.0134	0.00681	mg/kg		12/23/10 09:07	12/30/10 15:23	1
Benzo (k) fluoranthene	**0.00990**		0.00639	0.00131	mg/kg		12/23/10 09:07	12/30/10 15:23	1
Chrysene	**0.0182**		0.00639	0.00144	mg/kg		12/23/10 09:07	12/30/10 15:23	1
Dibenzo (a,h) anthracene	ND		0.00639	0.00575	mg/kg		12/23/10 09:07	12/30/10 15:23	1
Fluoranthene	**0.0374**		0.00639	0.00134	mg/kg		12/23/10 09:07	12/30/10 15:23	1
Fluorene	ND		0.00639	0.000958	mg/kg		12/23/10 09:07	12/30/10 15:23	1
Indeno (1,2,3-cd) pyrene	**0.00958**		0.00639	0.00556	mg/kg		12/23/10 09:07	12/30/10 15:23	1
Naphthalene	**0.00128**	**J**	0.00639	0.000863	mg/kg		12/23/10 09:07	12/30/10 15:23	1
Phenanthrene	**0.0169**		0.00639	0.00125	mg/kg		12/23/10 09:07	12/30/10 15:23	1
Pyrene	**0.0230**		0.00639	0.00134	mg/kg		12/23/10 09:07	12/30/10 15:23	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*35 - 120*	*12/23/10 09:07*	*12/30/10 15:23*	*1*
Nitrobenzene-d5	*58*		*30 - 120*	*12/23/10 09:07*	*12/30/10 15:23*	*1*
Terphenyl-d14	*74*		*50 - 130*	*12/23/10 09:07*	*12/30/10 15:23*	*1*

Method: EPA 8081 - Organochlorine Pesticides by EPA Method 8081

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.00393	0.00108	mg/kg		12/22/10 10:44	01/17/11 14:05	1
4,4'-DDE	**0.00111**	**J**	0.00393	0.000984	mg/kg		12/22/10 10:44	01/17/11 14:05	1
4,4'-DDT	ND		0.00393	0.000689	mg/kg		12/22/10 10:44	01/17/11 14:05	1
Aldrin	ND		0.00393	0.00148	mg/kg		12/22/10 10:44	01/17/11 14:05	1
alpha-BHC	ND		0.00393	0.00177	mg/kg		12/22/10 10:44	01/17/11 14:05	1
beta-BHC	ND		0.00393	0.00167	mg/kg		12/22/10 10:44	01/17/11 14:05	1
Chlordane	**0.0609**		0.0325	0.0138	mg/kg		12/22/10 10:44	01/17/11 14:05	1
delta-BHC	**0.00285**	**J**	0.00393	0.00157	mg/kg		12/22/10 10:44	01/17/11 14:05	1
Dieldrin	ND		0.00393	0.00138	mg/kg		12/22/10 10:44	01/17/11 14:05	1
Endosulfan I	ND		0.00393	0.00148	mg/kg		12/22/10 10:44	01/17/11 14:05	1
Endosulfan II	ND		0.00393	0.000787	mg/kg		12/22/10 10:44	01/17/11 14:05	1

Client Sample ID: KHB-DU-15

Date Collected: 12/13/10 10:30
Date Received: 12/17/10 16:00

Lab Sample ID: HTL0124-02

Matrix: Solid/Soil

Method: EPA 8081 - Organochlorine Pesticides by EPA Method 8081 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan sulfate	ND		0.00393	0.000984	mg/kg		12/22/10 10:44	01/17/11 14:05	1
Endrin	ND		0.00393	0.000984	mg/kg		12/22/10 10:44	01/17/11 14:05	1
Endrin aldehyde	ND		0.00393	0.000689	mg/kg		12/22/10 10:44	01/17/11 14:05	1
Endrin ketone	ND		0.00393	0.00167	mg/kg		12/22/10 10:44	01/17/11 14:05	1
gamma-BHC (Lindane)	ND		0.00393	0.00118	mg/kg		12/22/10 10:44	01/17/11 14:05	1
Heptachlor	ND		0.00393	0.00138	mg/kg		12/22/10 10:44	01/17/11 14:05	1
Heptachlor epoxide	**0.00275**	**J**	0.00393	0.00108	mg/kg		12/22/10 10:44	01/17/11 14:05	1
Methoxychlor	**0.00649**	**J**	0.0197	0.00138	mg/kg		12/22/10 10:44	01/17/11 14:05	1
Toxaphene	ND		0.0492	0.0492	mg/kg		12/22/10 10:44	01/17/11 14:05	1
alpha-Chlordane	ND		0.00393	0.00177	mg/kg		12/22/10 10:44	01/17/11 14:05	1
gamma-Chlordane	**0.00180**	**J**	0.00393	0.000984	mg/kg		12/22/10 10:44	01/17/11 14:05	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*135*	*Z9*	*45 - 120*	*12/22/10 10:44*	*01/17/11 14:05*	*1*
Tetrachloro-meta-xylene	*60*		*50 - 120*	*12/22/10 10:44*	*01/17/11 14:05*	*1*

Method: 8290 - Dioxins/Furans, HRGC/HRMS (8290)

Analyte	Result	Qualifier	RL	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		32	0.67	1		pg/g		12/29/10 18:00	01/06/11 18:18	32.25
Total TCDD	ND		32	0.67			pg/g		12/29/10 18:00	01/06/11 18:18	32.25
1,2,3,7,8-PeCDD	ND		160	3.4	0.5		pg/g		12/29/10 18:00	01/06/11 18:18	32.25
Total PeCDD	ND		160	3.4			pg/g		12/29/10 18:00	01/06/11 18:18	32.25
1,2,3,4,7,8-HxCDD	ND		160	4.4	0.1		pg/g		12/29/10 18:00	01/06/11 18:18	32.25
1,2,3,6,7,8-HxCDD	**320**		160	3.8	0.1	32	pg/g		12/29/10 18:00	01/06/11 18:18	32.25
1,2,3,7,8,9-HxCDD	ND		160	3.6	0.1		pg/g		12/29/10 18:00	01/06/11 18:18	32.25
Total HxCDD	**1300**		160	3.9			pg/g		12/29/10 18:00	01/06/11 18:18	32.25
1,2,3,4,6,7,8-HpCDD	**11000**		160	92	0.01	110	pg/g		12/29/10 18:00	01/06/11 18:18	32.25
Total HpCDD	**23000**		160	92			pg/g		12/29/10 18:00	01/06/11 18:18	32.25
OCDD	**100000**		320	130	0.001	100	pg/g		12/29/10 18:00	01/06/11 18:18	32.25
2,3,7,8-TCDF	ND		32	2.0	0.1		pg/g		12/29/10 18:00	01/06/11 18:18	32.25
Total TCDF	ND		32	2.0			pg/g		12/29/10 18:00	01/06/11 18:18	32.25
1,2,3,7,8-PeCDF	ND		160	3.4	0.05		pg/g		12/29/10 18:00	01/06/11 18:18	32.25
2,3,4,7,8-PeCDF	ND		160	3.4	0.5		pg/g		12/29/10 18:00	01/06/11 18:18	32.25
Total PeCDF	ND		160	3.4			pg/g		12/29/10 18:00	01/06/11 18:18	32.25
1,2,3,4,7,8-HxCDF	ND		160	5.2	0.1		pg/g		12/29/10 18:00	01/06/11 18:18	32.25
1,2,3,6,7,8-HxCDF	ND		160	4.5	0.1		pg/g		12/29/10 18:00	01/06/11 18:18	32.25
2,3,4,6,7,8-HxCDF	ND		160	4.8	0.1		pg/g		12/29/10 18:00	01/06/11 18:18	32.25
1,2,3,7,8,9-HxCDF	ND		160	5.2	0.1		pg/g		12/29/10 18:00	01/06/11 18:18	32.25
Total HxCDF	**3700**		160	4.9			pg/g		12/29/10 18:00	01/06/11 18:18	32.25
1,2,3,4,6,7,8-HpCDF	**4000**		160	26	0.01	40	pg/g		12/29/10 18:00	01/06/11 18:18	32.25
1,2,3,4,7,8,9-HpCDF	**260**		160	30	0.01	2.6	pg/g		12/29/10 18:00	01/06/11 18:18	32.25
Total HpCDF	**16000**		160	28			pg/g		12/29/10 18:00	01/06/11 18:18	32.25
OCDF	**10000**		320	16	0.001	10	pg/g		12/29/10 18:00	01/06/11 18:18	32.25
Total TEQ						**290**					

Internal Standard	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*119*		*40 - 135*	*12/29/10 18:00*	*01/06/11 18:18*	*32.25*
13C-1,2,3,7,8-PeCDD	*102*		*40 - 135*	*12/29/10 18:00*	*01/06/11 18:18*	*32.25*
13C-1,2,3,6,7,8-HxCDD	*132*		*40 - 135*	*12/29/10 18:00*	*01/06/11 18:18*	*32.25*

Client Sample ID: KHB-DU-15

Lab Sample ID: HTL0124-02
Date Collected: 12/13/10 10:30
Matrix: Solid/Soil
Date Received: 12/17/10 16:00

Method: 8290 - Dioxins/Furans, HRGC/HRMS (8290) (Continued)

Internal Standard	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,4,6,7,8-HpCDD	*81*		*40 - 135*	*12/29/10 18:00*	*01/06/11 18:18*	*32.25*
13C-OCDD	*109*		*40 - 135*	*12/29/10 18:00*	*01/06/11 18:18*	*32.25*
13C-2,3,7,8-TCDF	*94*		*40 - 135*	*12/29/10 18:00*	*01/06/11 18:18*	*32.25*
13C-1,2,3,7,8-PeCDF	*91*		*40 - 135*	*12/29/10 18:00*	*01/06/11 18:18*	*32.25*
13C-1,2,3,4,7,8-HxCDF	*98*		*40 - 135*	*12/29/10 18:00*	*01/06/11 18:18*	*32.25*
13C-1,2,3,4,6,7,8-HpCDF	*82*		*40 - 135*	*12/29/10 18:00*	*01/06/11 18:18*	*32.25*

Method: EPA 6010 - Total Metals by EPA Method 6010/7471

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**73.5**		9.68	0.0774	mg/kg		12/28/10 12:13	01/12/11 12:41	1
Barium	**116**		19.4	0.0813	mg/kg		12/28/10 12:13	01/12/11 12:41	1
Cadmium	**1.71**	**J**	3.87	0.0784	mg/kg		12/28/10 12:13	01/12/11 12:41	1
Chromium	**85.0**		9.68	0.0707	mg/kg		12/28/10 12:13	01/12/11 12:41	1
Lead	**22.0**		19.4	0.0678	mg/kg		12/28/10 12:13	01/12/11 12:41	1
Selenium	ND		19.4	0.0871	mg/kg		12/28/10 12:13	01/12/11 12:41	1
Silver	**0.205**	**J**	9.68	0.00678	mg/kg		12/28/10 12:13	01/12/11 12:41	1

Method: EPA 7471 - Total Metals by EPA Method 6010/7471

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.731**		0.0509	0.00102	mg/kg		01/10/11 09:35	01/10/11 14:54	10

Client Sample ID: KHB-DU-16

Lab Sample ID: HTL0124-03
Date Collected: 12/13/10 11:15
Matrix: Solid/Soil
Date Received: 12/17/10 16:00

Method: EPA 8270 SIM - PAH Compounds by EPA Method 8270 SIM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.00633	0.00190	mg/kg		12/23/10 09:07	12/30/10 16:06	1
2-Methylnaphthalene	**0.00127**	**J**	0.00633	0.00114	mg/kg		12/23/10 09:07	12/30/10 16:06	1
Acenaphthene	ND		0.00633	0.000876	mg/kg		12/23/10 09:07	12/30/10 16:06	1
Acenaphthylene	**0.00222**	**J**	0.00633	0.000638	mg/kg		12/23/10 09:07	12/30/10 16:06	1
Anthracene	**0.00411**	**J**	0.00633	0.00104	mg/kg		12/23/10 09:07	12/30/10 16:06	1
Benzo (a) anthracene	**0.0494**		0.00633	0.00161	mg/kg		12/23/10 09:07	12/30/10 16:06	1
Benzo (a) pyrene	**0.0725**		0.00633	0.00266	mg/kg		12/23/10 09:07	12/30/10 16:06	1
Benzo (b) fluoranthene	**0.112**		0.00633	0.00323	mg/kg		12/23/10 09:07	12/30/10 16:06	1
Benzo (g,h,i) perylene	**0.0402**		0.0133	0.00674	mg/kg		12/23/10 09:07	12/30/10 16:06	1
Benzo (k) fluoranthene	**0.0405**		0.00633	0.00130	mg/kg		12/23/10 09:07	12/30/10 16:06	1
Chrysene	**0.0598**		0.00633	0.00142	mg/kg		12/23/10 09:07	12/30/10 16:06	1
Dibenzo (a,h) anthracene	**0.0108**		0.00633	0.00570	mg/kg		12/23/10 09:07	12/30/10 16:06	1
Fluoranthene	**0.0839**		0.00633	0.00133	mg/kg		12/23/10 09:07	12/30/10 16:06	1
Fluorene	**0.000949**	**J**	0.00633	0.000949	mg/kg		12/23/10 09:07	12/30/10 16:06	1
Indeno (1,2,3-cd) pyrene	**0.0392**		0.00633	0.00551	mg/kg		12/23/10 09:07	12/30/10 16:06	1
Naphthalene	**0.00190**	**J**	0.00633	0.000854	mg/kg		12/23/10 09:07	12/30/10 16:06	1
Phenanthrene	**0.0215**		0.00633	0.00123	mg/kg		12/23/10 09:07	12/30/10 16:06	1
Pyrene	**0.0551**		0.00633	0.00133	mg/kg		12/23/10 09:07	12/30/10 16:06	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*83*		*35 - 120*	*12/23/10 09:07*	*12/30/10 16:06*	*1*
Nitrobenzene-d5	*65*		*30 - 120*	*12/23/10 09:07*	*12/30/10 16:06*	*1*
Terphenyl-d14	*73*		*50 - 130*	*12/23/10 09:07*	*12/30/10 16:06*	*1*

Client Sample ID: KHB-DU-16

Date Collected: 12/13/10 11:15
Date Received: 12/17/10 16:00

Lab Sample ID: HTL0124-03

Matrix: Solid/Soil

Method: EPA 8081 - Organochlorine Pesticides by EPA Method 8081

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.00376	0.00103	mg/kg		12/22/10 10:44	01/17/11 14:25	1
4,4'-DDE	ND		0.00376	0.000940	mg/kg		12/22/10 10:44	01/17/11 14:25	1
4,4'-DDT	ND		0.00376	0.000658	mg/kg		12/22/10 10:44	01/17/11 14:25	1
Aldrin	ND		0.00376	0.00141	mg/kg		12/22/10 10:44	01/17/11 14:25	1
alpha-BHC	ND		0.00376	0.00169	mg/kg		12/22/10 10:44	01/17/11 14:25	1
beta-BHC	ND		0.00376	0.00160	mg/kg		12/22/10 10:44	01/17/11 14:25	1
Chlordane	**0.0536**		0.0310	0.0132	mg/kg		12/22/10 10:44	01/17/11 14:25	1
delta-BHC	**0.00558**		0.00376	0.00150	mg/kg		12/22/10 10:44	01/17/11 14:25	1
Dieldrin	ND		0.00376	0.00132	mg/kg		12/22/10 10:44	01/17/11 14:25	1
Endosulfan I	ND		0.00376	0.00141	mg/kg		12/22/10 10:44	01/17/11 14:25	1
Endosulfan II	ND		0.00376	0.000752	mg/kg		12/22/10 10:44	01/17/11 14:25	1
Endosulfan sulfate	ND		0.00376	0.000940	mg/kg		12/22/10 10:44	01/17/11 14:25	1
Endrin	ND		0.00376	0.000940	mg/kg		12/22/10 10:44	01/17/11 14:25	1
Endrin aldehyde	ND		0.00376	0.000658	mg/kg		12/22/10 10:44	01/17/11 14:25	1
Endrin ketone	ND		0.00376	0.00160	mg/kg		12/22/10 10:44	01/17/11 14:25	1
gamma-BHC (Lindane)	ND		0.00376	0.00113	mg/kg		12/22/10 10:44	01/17/11 14:25	1
Heptachlor	ND		0.00376	0.00132	mg/kg		12/22/10 10:44	01/17/11 14:25	1
Heptachlor epoxide	**0.00301**	**J**	0.00376	0.00103	mg/kg		12/22/10 10:44	01/17/11 14:25	1
Methoxychlor	**0.00539**	**J**	0.0188	0.00132	mg/kg		12/22/10 10:44	01/17/11 14:25	1
Toxaphene	ND		0.0470	0.0470	mg/kg		12/22/10 10:44	01/17/11 14:25	1
alpha-Chlordane	ND		0.00376	0.00169	mg/kg		12/22/10 10:44	01/17/11 14:25	1
gamma-Chlordane	**0.00179**	**J**	0.00376	0.000940	mg/kg		12/22/10 10:44	01/17/11 14:25	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*258*	*Z9*	*45 - 120*	*12/22/10 10:44*	*01/17/11 14:25*	*1*
Tetrachloro-meta-xylene	*62*		*50 - 120*	*12/22/10 10:44*	*01/17/11 14:25*	*1*

Method: 8290 - Dioxins/Furans, HRGC/HRMS (8290)

Analyte	Result	Qualifier	RL	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		48	1.7	1		pg/g		12/29/10 18:00	01/06/11 19:09	47.61
Total TCDD	ND		48	1.7			pg/g		12/29/10 18:00	01/06/11 19:09	47.61
1,2,3,7,8-PeCDD	ND		240	10	0.5		pg/g		12/29/10 18:00	01/06/11 19:09	47.61
Total PeCDD	ND		240	10			pg/g		12/29/10 18:00	01/06/11 19:09	47.61
1,2,3,4,7,8-HxCDD	ND		240	9.7	0.1		pg/g		12/29/10 18:00	01/06/11 19:09	47.61
1,2,3,6,7,8-HxCDD	**950**		240	8.3	0.1	95	pg/g		12/29/10 18:00	01/06/11 19:09	47.61
1,2,3,7,8,9-HxCDD	**270**		240	7.8	0.1	27	pg/g		12/29/10 18:00	01/06/11 19:09	47.61
Total HxCDD	**3700**		240	8.6			pg/g		12/29/10 18:00	01/06/11 19:09	47.61
1,2,3,4,6,7,8-HpCDD	**21000**		240	90	0.01	210	pg/g		12/29/10 18:00	01/06/11 19:09	47.61
Total HpCDD	**44000**		240	90			pg/g		12/29/10 18:00	01/06/11 19:09	47.61
OCDD	**200000**	**E**	480	220	0.001	200	pg/g		12/29/10 18:00	01/06/11 19:09	47.61
2,3,7,8-TCDF	ND		48	4.5	0.1		pg/g		12/29/10 18:00	01/06/11 19:09	47.61
Total TCDF	ND		48	4.5			pg/g		12/29/10 18:00	01/06/11 19:09	47.61
1,2,3,7,8-PeCDF	ND		240	7.5	0.05		pg/g		12/29/10 18:00	01/06/11 19:09	47.61
2,3,4,7,8-PeCDF	ND		240	7.6	0.5		pg/g		12/29/10 18:00	01/06/11 19:09	47.61
Total PeCDF	**250**		240	7.5			pg/g		12/29/10 18:00	01/06/11 19:09	47.61
1,2,3,4,7,8-HxCDF	ND		240	8.5	0.1		pg/g		12/29/10 18:00	01/06/11 19:09	47.61
1,2,3,6,7,8-HxCDF	ND		240	7.5	0.1		pg/g		12/29/10 18:00	01/06/11 19:09	47.61
2,3,4,6,7,8-HxCDF	ND		240	7.9	0.1		pg/g		12/29/10 18:00	01/06/11 19:09	47.61
1,2,3,7,8,9-HxCDF	ND		240	8.5	0.1		pg/g		12/29/10 18:00	01/06/11 19:09	47.61
Total HxCDF	**7400**		240	8.1			pg/g		12/29/10 18:00	01/06/11 19:09	47.61

Client Sample ID: KHB-DU-16

Lab Sample ID: HTL0124-03
Date Collected: 12/13/10 11:15
Matrix: Solid/Soil
Date Received: 12/17/10 16:00

Method: 8290 - Dioxins/Furans, HRGC/HRMS (8290) (Continued)

Analyte	Result	Qualifier	RL	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,6,7,8-HpCDF	6200		240	52	0.01	62	pg/g		12/29/10 18:00	01/06/11 19:09	47.61
1,2,3,4,7,8,9-HpCDF	470		240	59	0.01	4.7	pg/g		12/29/10 18:00	01/06/11 19:09	47.61
Total HpCDF	24000		240	55			pg/g		12/29/10 18:00	01/06/11 19:09	47.61
OCDF	15000		480	27	0.001	15	pg/g		12/29/10 18:00	01/06/11 19:09	47.61
Total TEQ						**610**					

Internal Standard	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*96*		*40 - 135*	*12/29/10 18:00*	*01/06/11 19:09*	*47.61*
13C-1,2,3,7,8-PeCDD	*100*		*40 - 135*	*12/29/10 18:00*	*01/06/11 19:09*	*47.61*
13C-1,2,3,6,7,8-HxCDD	*109*		*40 - 135*	*12/29/10 18:00*	*01/06/11 19:09*	*47.61*
13C-1,2,3,4,6,7,8-HpCDD	*90*		*40 - 135*	*12/29/10 18:00*	*01/06/11 19:09*	*47.61*
13C-OCDD	*110*		*40 - 135*	*12/29/10 18:00*	*01/06/11 19:09*	*47.61*
13C-2,3,7,8-TCDF	*102*		*40 - 135*	*12/29/10 18:00*	*01/06/11 19:09*	*47.61*
13C-1,2,3,7,8-PeCDF	*102*		*40 - 135*	*12/29/10 18:00*	*01/06/11 19:09*	*47.61*
13C-1,2,3,4,7,8-HxCDF	*103*		*40 - 135*	*12/29/10 18:00*	*01/06/11 19:09*	*47.61*
13C-1,2,3,4,6,7,8-HpCDF	*100*		*40 - 135*	*12/29/10 18:00*	*01/06/11 19:09*	*47.61*

Method: EPA 6010 - Total Metals by EPA Method 6010/7471

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	151		9.74	0.0779	mg/kg		12/28/10 12:13	01/12/11 12:46	1
Barium	112		19.5	0.0818	mg/kg		12/28/10 12:13	01/12/11 12:46	1
Cadmium	1.71	J	3.89	0.0789	mg/kg		12/28/10 12:13	01/12/11 12:46	1
Chromium	85.2		9.74	0.0711	mg/kg		12/28/10 12:13	01/12/11 12:46	1
Lead	29.0		19.5	0.0682	mg/kg		12/28/10 12:13	01/12/11 12:46	1
Selenium	ND		19.5	0.0876	mg/kg		12/28/10 12:13	01/12/11 12:46	1
Silver	0.467	J	9.74	0.00682	mg/kg		12/28/10 12:13	01/12/11 12:46	1

Method: EPA 7471 - Total Metals by EPA Method 6010/7471

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.06		0.0446	0.000893	mg/kg		01/10/11 09:35	01/10/11 14:55	10

Client Sample ID: KHB-DU-17

Lab Sample ID: HTL0124-04
Date Collected: 12/13/10 12:00
Matrix: Solid/Soil
Date Received: 12/17/10 16:00

Method: EPA 8270 SIM - PAH Compounds by EPA Method 8270 SIM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.00663	0.00199	mg/kg		12/23/10 09:07	12/30/10 16:50	1
2-Methylnaphthalene	0.00132	J	0.00663	0.00119	mg/kg		12/23/10 09:07	12/30/10 16:50	1
Acenaphthene	0.00331	J	0.00662	0.000917	mg/kg		12/23/10 09:07	12/30/10 16:50	1
Acenaphthylene	0.00232	J	0.00663	0.000668	mg/kg		12/23/10 09:07	12/30/10 16:50	1
Anthracene	0.00199	J	0.00663	0.00109	mg/kg		12/23/10 09:07	12/30/10 16:50	1
Benzo (a) anthracene	0.0179		0.00663	0.00169	mg/kg		12/23/10 09:07	12/30/10 16:50	1
Benzo (a) pyrene	0.0235		0.00663	0.00278	mg/kg		12/23/10 09:07	12/30/10 16:50	1
Benzo (b) fluoranthene	0.0450		0.00663	0.00338	mg/kg		12/23/10 09:07	12/30/10 16:50	1
Benzo (g,h,i) perylene	0.0119	J	0.0139	0.00705	mg/kg		12/23/10 09:07	12/30/10 16:50	1
Benzo (k) fluoranthene	0.0106		0.00663	0.00136	mg/kg		12/23/10 09:07	12/30/10 16:50	1
Chrysene	0.0281		0.00663	0.00149	mg/kg		12/23/10 09:07	12/30/10 16:50	1
Dibenzo (a,h) anthracene	ND		0.00663	0.00596	mg/kg		12/23/10 09:07	12/30/10 16:50	1

Client Sample ID: KHB-DU-17

Date Collected: 12/13/10 12:00
Date Received: 12/17/10 16:00

Lab Sample ID: HTL0124-04

Matrix: Solid/Soil

Method: EPA 8270 SIM - PAH Compounds by EPA Method 8270 SIM (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	**0.0477**		0.00662	0.00139	mg/kg		12/23/10 09:07	12/30/10 16:50	1
Fluorene	ND		0.00663	0.000993	mg/kg		12/23/10 09:07	12/30/10 16:50	1
Indeno (1,2,3-cd) pyrene	**0.0116**		0.00663	0.00576	mg/kg		12/23/10 09:07	12/30/10 16:50	1
Naphthalene	**0.00166**	**J**	0.00662	0.000894	mg/kg		12/23/10 09:07	12/30/10 16:50	1
Phenanthrene	**0.0139**		0.00663	0.00129	mg/kg		12/23/10 09:07	12/30/10 16:50	1
Pyrene	**0.0305**		0.00663	0.00139	mg/kg		12/23/10 09:07	12/30/10 16:50	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*81*		*35 - 120*	*12/23/10 09:07*	*12/30/10 16:50*	*1*
Nitrobenzene-d5	*64*		*30 - 120*	*12/23/10 09:07*	*12/30/10 16:50*	*1*
Terphenyl-d14	*72*		*50 - 130*	*12/23/10 09:07*	*12/30/10 16:50*	*1*

Method: EPA 8081 - Organochlorine Pesticides by EPA Method 8081

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**0.00175**	**J**	0.00388	0.00107	mg/kg		12/22/10 10:44	01/17/11 14:44	1
4,4'-DDE	**0.00379**	**J**	0.00388	0.000971	mg/kg		12/22/10 10:44	01/17/11 14:44	1
4,4'-DDT	ND		0.00388	0.000680	mg/kg		12/22/10 10:44	01/17/11 14:44	1
Aldrin	ND		0.00388	0.00146	mg/kg		12/22/10 10:44	01/17/11 14:44	1
alpha-BHC	ND		0.00388	0.00175	mg/kg		12/22/10 10:44	01/17/11 14:44	1
beta-BHC	ND		0.00388	0.00165	mg/kg		12/22/10 10:44	01/17/11 14:44	1
Chlordane	**0.0586**		0.0320	0.0136	mg/kg		12/22/10 10:44	01/17/11 14:44	1
delta-BHC	**0.00385**	**J**	0.00388	0.00155	mg/kg		12/22/10 10:44	01/17/11 14:44	1
Dieldrin	ND		0.00388	0.00136	mg/kg		12/22/10 10:44	01/17/11 14:44	1
Endosulfan I	ND		0.00388	0.00146	mg/kg		12/22/10 10:44	01/17/11 14:44	1
Endosulfan II	**0.000971**	**J**	0.00388	0.000777	mg/kg		12/22/10 10:44	01/17/11 14:44	1
Endosulfan sulfate	ND		0.00388	0.000971	mg/kg		12/22/10 10:44	01/17/11 14:44	1
Endrin	ND		0.00388	0.000971	mg/kg		12/22/10 10:44	01/17/11 14:44	1
Endrin aldehyde	**0.00249**	**J**	0.00388	0.000680	mg/kg		12/22/10 10:44	01/17/11 14:44	1
Endrin ketone	ND		0.00388	0.00165	mg/kg		12/22/10 10:44	01/17/11 14:44	1
gamma-BHC (Lindane)	**0.00320**	**J**	0.00388	0.00117	mg/kg		12/22/10 10:44	01/17/11 14:44	1
Heptachlor	ND		0.00388	0.00136	mg/kg		12/22/10 10:44	01/17/11 14:44	1
Heptachlor epoxide	ND		0.00388	0.00107	mg/kg		12/22/10 10:44	01/17/11 14:44	1
Methoxychlor	**0.00887**	**J**	0.0194	0.00136	mg/kg		12/22/10 10:44	01/17/11 14:44	1
Toxaphene	ND		0.0485	0.0485	mg/kg		12/22/10 10:44	01/17/11 14:44	1
alpha-Chlordane	ND		0.00388	0.00175	mg/kg		12/22/10 10:44	01/17/11 14:44	1
gamma-Chlordane	**0.00126**	**J**	0.00388	0.000971	mg/kg		12/22/10 10:44	01/17/11 14:44	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*199*	*Z9*	*45 - 120*	*12/22/10 10:44*	*01/17/11 14:44*	*1*
Tetrachloro-meta-xylene	*67*		*50 - 120*	*12/22/10 10:44*	*01/17/11 14:44*	*1*

Method: 8290 - Dioxins/Furans, HRGC/HRMS (8290)

Analyte	Result	Qualifier	RL	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		45	1.3	1		pg/g		12/29/10 18:00	01/06/11 20:00	45.45
Total TCDD	ND		45	1.3			pg/g		12/29/10 18:00	01/06/11 20:00	45.45
1,2,3,7,8-PeCDD	ND		230	12	0.5		pg/g		12/29/10 18:00	01/06/11 20:00	45.45
Total PeCDD	ND		230	12			pg/g		12/29/10 18:00	01/06/11 20:00	45.45
1,2,3,4,7,8-HxCDD	ND		230	6.0	0.1		pg/g		12/29/10 18:00	01/06/11 20:00	45.45
1,2,3,6,7,8-HxCDD	**560**		230	5.1	0.1	56	pg/g		12/29/10 18:00	01/06/11 20:00	45.45
1,2,3,7,8,9-HxCDD	ND		230	4.8	0.1		pg/g		12/29/10 18:00	01/06/11 20:00	45.45
Total HxCDD	**2100**		230	5.3			pg/g		12/29/10 18:00	01/06/11 20:00	45.45

Client Sample ID: KHB-DU-17

Date Collected: 12/13/10 12:00
Date Received: 12/17/10 16:00

Lab Sample ID: HTL0124-04

Matrix: Solid/Soil

Method: 8290 - Dioxins/Furans, HRGC/HRMS (8290) (Continued)

Analyte	Result	Qualifier	RL	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,6,7,8-HpCDD	**13000**		230	82	0.01	130	pg/g		12/29/10 18:00	01/06/11 20:00	45.45
Total HpCDD	**26000**		230	82			pg/g		12/29/10 18:00	01/06/11 20:00	45.45
OCDD	**130000**		450	220	0.001	130	pg/g		12/29/10 18:00	01/06/11 20:00	45.45
2,3,7,8-TCDF	ND		45	2.9	0.1		pg/g		12/29/10 18:00	01/06/11 20:00	45.45
Total TCDF	ND		45	2.9			pg/g		12/29/10 18:00	01/06/11 20:00	45.45
1,2,3,7,8-PeCDF	ND		230	6.3	0.05		pg/g		12/29/10 18:00	01/06/11 20:00	45.45
2,3,4,7,8-PeCDF	ND		230	6.4	0.5		pg/g		12/29/10 18:00	01/06/11 20:00	45.45
Total PeCDF	ND		230	6.4			pg/g		12/29/10 18:00	01/06/11 20:00	45.45
1,2,3,4,7,8-HxCDF	ND		230	6.5	0.1		pg/g		12/29/10 18:00	01/06/11 20:00	45.45
1,2,3,6,7,8-HxCDF	ND		230	5.7	0.1		pg/g		12/29/10 18:00	01/06/11 20:00	45.45
2,3,4,6,7,8-HxCDF	ND		230	6.1	0.1		pg/g		12/29/10 18:00	01/06/11 20:00	45.45
1,2,3,7,8,9-HxCDF	ND		230	6.5	0.1		pg/g		12/29/10 18:00	01/06/11 20:00	45.45
Total HxCDF	**4700**		230	6.2			pg/g		12/29/10 18:00	01/06/11 20:00	45.45
1,2,3,4,6,7,8-HpCDF	**4200**		230	21	0.01	42	pg/g		12/29/10 18:00	01/06/11 20:00	45.45
1,2,3,4,7,8,9-HpCDF	**260**		230	24	0.01	2.6	pg/g		12/29/10 18:00	01/06/11 20:00	45.45
Total HpCDF	**16000**		230	22			pg/g		12/29/10 18:00	01/06/11 20:00	45.45
OCDF	**9600**		450	18	0.001	9.6	pg/g		12/29/10 18:00	01/06/11 20:00	45.45
Total TEQ						**370**					

Internal Standard	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*99*		*40 - 135*	*12/29/10 18:00*	*01/06/11 20:00*	*45.45*
13C-1,2,3,7,8-PeCDD	*100*		*40 - 135*	*12/29/10 18:00*	*01/06/11 20:00*	*45.45*
13C-1,2,3,6,7,8-HxCDD	*110*		*40 - 135*	*12/29/10 18:00*	*01/06/11 20:00*	*45.45*
13C-1,2,3,4,6,7,8-HpCDD	*88*		*40 - 135*	*12/29/10 18:00*	*01/06/11 20:00*	*45.45*
13C-OCDD	*96*		*40 - 135*	*12/29/10 18:00*	*01/06/11 20:00*	*45.45*
13C-2,3,7,8-TCDF	*101*		*40 - 135*	*12/29/10 18:00*	*01/06/11 20:00*	*45.45*
13C-1,2,3,7,8-PeCDF	*103*		*40 - 135*	*12/29/10 18:00*	*01/06/11 20:00*	*45.45*
13C-1,2,3,4,7,8-HxCDF	*103*		*40 - 135*	*12/29/10 18:00*	*01/06/11 20:00*	*45.45*
13C-1,2,3,4,6,7,8-HpCDF	*91*		*40 - 135*	*12/29/10 18:00*	*01/06/11 20:00*	*45.45*

Method: EPA 6010 - Total Metals by EPA Method 6010/7471

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**115**		9.77	0.0781	mg/kg		12/28/10 12:13	01/12/11 12:51	1
Barium	**114**		19.5	0.0820	mg/kg		12/28/10 12:13	01/12/11 12:51	1
Cadmium	**1.97**	**J**	3.91	0.0791	mg/kg		12/28/10 12:13	01/12/11 12:51	1
Chromium	**90.2**		9.77	0.0713	mg/kg		12/28/10 12:13	01/12/11 12:51	1
Lead	**27.6**		19.5	0.0684	mg/kg		12/28/10 12:13	01/12/11 12:51	1
Selenium	ND		19.5	0.0879	mg/kg		12/28/10 12:13	01/12/11 12:51	1
Silver	ND		9.77	0.00684	mg/kg		12/28/10 12:13	01/12/11 12:51	1

Method: EPA 7471 - Total Metals by EPA Method 6010/7471

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**1.08**		0.0436	0.000873	mg/kg		01/10/11 09:35	01/10/11 14:56	10

Surrogate Summary

Client: Department of Health, HEER Office
Project/Site: [none]

TestAmerica Job ID: HTL0124
SDG: HTL0124

Method: EPA 8270 SIM - PAH Compounds by EPA Method 8270 SIM

Matrix: Solid/Soil **Prep Type: total**

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPH
Lab Sample ID	Client Sample ID	(35-120)	(30-120)	(50-130)
10L0188-BLK1	10L0188-BLK1	80	80	101
10L0188-BS1	10L0188-BS1	84	83	103
10L0188-MS1	KHB-DU-14	73	62	78
10L0188-MSD1	KHB-DU-14	82	65	76
HTL0124-01	KHB-DU-14	78	70	73
HTL0124-02	KHB-DU-15	73	58	74
HTL0124-03	KHB-DU-16	83	65	73
HTL0124-04	KHB-DU-17	81	64	72

Surrogate Legend

FBP = 2-Fluorobiphenyl

NBZ = Nitrobenzene-d5

TPH = Terphenyl-d14

Method: EPA 8081 - Organochlorine Pesticides by EPA Method 8081

Matrix: Solid/Soil **Prep Type: total**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB	hloro-meta-
Lab Sample ID	Client Sample ID	(45-120)	(50-120)
10L0171-BLK1	10L0171-BLK1	80	70
10L0171-BS1	10L0171-BS1	80	73
10L0171-MS1	HTL0114-09	1060 RL1, Z1, R10	69
10L0171-MSD1	HTL0114-09	RL1, Z	60
HTL0124-01	KHB-DU-14	84	58
HTL0124-02	KHB-DU-15	135 Z9	60
HTL0124-03	KHB-DU-16	258 Z9	62
HTL0124-04	KHB-DU-17	199 Z9	67

Surrogate Legend

DCB = Decachlorobiphenyl

Tetrachloro-meta-xylene = Tetrachloro-meta-xylene

Internal Standard Summary

Client: Department of Health, HEER Office
Project/Site: [none]

TestAmerica Job ID: HTL0124
SDG: HTL0124

Method: 8290 - Dioxins/Furans, HRGC/HRMS (8290)

Matrix: Solid **Prep Type: Total**

		Percent Internal Standard Recovery (Acceptance Limits)							
		TCDD	PeCDD	HxCDD2	HpCDD	OCDD	TCDF	PeCDF1	HxCDF1
Lab Sample ID	Client Sample ID	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)
G0L290000201B	INTRA-LAB BLANK	95	99	105	82	79	97	99	88
G0L290000201C	CHECK SAMPLE	89	97	96	100	94	85	97	89

		Percent Internal Standard Recovery (Acceptance Limits)							
		HpCDF1							
Lab Sample ID	Client Sample ID	(40-135)							
G0L290000201B	INTRA-LAB BLANK	87							
G0L290000201C	CHECK SAMPLE	91							

Internal Standard Legend

TCDD = 13C-2,3,7,8-TCDD
PeCDD = 13C-1,2,3,7,8-PeCDD
HxCDD2 = 13C-1,2,3,6,7,8-HxCDD
HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
OCDD = 13C-OCDD
TCDF = 13C-2,3,7,8-TCDF
PeCDF1 = 13C-1,2,3,7,8-PeCDF
HxCDF1 = 13C-1,2,3,4,7,8-HxCDF
HpCDF1 = 13C-1,2,3,4,6,7,8-HpCDF

Method: 8290 - Dioxins/Furans, HRGC/HRMS (8290)

Matrix: Solid/Soil **Prep Type: Total**

		Percent Internal Standard Recovery (Acceptance Limits)							
		TCDD	PeCDD	HxCDD2	HpCDD	OCDD	TCDF	PeCDF1	HxCDF1
Lab Sample ID	Client Sample ID	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)
HTL0124-01	KHB-DU-14	93	96	108	90	119	96	98	101
HTL0124-02	KHB-DU-15	119	102	132	81	109	94	91	98
HTL0124-03	KHB-DU-16	96	100	109	90	110	102	102	103
HTL0124-04	KHB-DU-17	99	100	110	88	96	101	103	103

		Percent Internal Standard Recovery (Acceptance Limits)							
		HpCDF1							
Lab Sample ID	Client Sample ID	(40-135)							
HTL0124-01	KHB-DU-14	103							
HTL0124-02	KHB-DU-15	82							
HTL0124-03	KHB-DU-16	100							
HTL0124-04	KHB-DU-17	91							

Internal Standard Legend

TCDD = 13C-2,3,7,8-TCDD
PeCDD = 13C-1,2,3,7,8-PeCDD
HxCDD2 = 13C-1,2,3,6,7,8-HxCDD
HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
OCDD = 13C-OCDD
TCDF = 13C-2,3,7,8-TCDF
PeCDF1 = 13C-1,2,3,7,8-PeCDF
HxCDF1 = 13C-1,2,3,4,7,8-HxCDF
HpCDF1 = 13C-1,2,3,4,6,7,8-HpCDF

Method: EPA 8270 SIM - PAH Compounds by EPA Method 8270 SIM

Lab Sample ID: 10L0188-BLK1 | **Client Sample ID: 10L0188-BLK1**
Matrix: Solid/Soil | **Prep Type: total**
Analysis Batch: 10L0188 | **Prep Batch: 10L0188_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.00667	0.00200	mg/kg		12/23/10 09:07	12/29/10 11:23	1
2-Methylnaphthalene	ND		0.00667	0.00120	mg/kg		12/23/10 09:07	12/29/10 11:23	1
Acenaphthene	ND		0.00667	0.000923	mg/kg		12/23/10 09:07	12/29/10 11:23	1
Acenaphthylene	ND		0.00667	0.000672	mg/kg		12/23/10 09:07	12/29/10 11:23	1
Anthracene	ND		0.00667	0.00110	mg/kg		12/23/10 09:07	12/29/10 11:23	1
Benzo (a) anthracene	ND		0.00667	0.00170	mg/kg		12/23/10 09:07	12/29/10 11:23	1
Benzo (a) pyrene	ND		0.00667	0.00280	mg/kg		12/23/10 09:07	12/29/10 11:23	1
Benzo (b) fluoranthene	ND		0.00667	0.00340	mg/kg		12/23/10 09:07	12/29/10 11:23	1
Benzo (g,h,i) perylene	ND		0.0140	0.00710	mg/kg		12/23/10 09:07	12/29/10 11:23	1
Benzo (k) fluoranthene	ND		0.00667	0.00137	mg/kg		12/23/10 09:07	12/29/10 11:23	1
Chrysene	ND		0.00667	0.00150	mg/kg		12/23/10 09:07	12/29/10 11:23	1
Dibenzo (a,h) anthracene	ND		0.00667	0.00600	mg/kg		12/23/10 09:07	12/29/10 11:23	1
Fluoranthene	ND		0.00667	0.00140	mg/kg		12/23/10 09:07	12/29/10 11:23	1
Fluorene	ND		0.00667	0.00100	mg/kg		12/23/10 09:07	12/29/10 11:23	1
Indeno (1,2,3-cd) pyrene	ND		0.00667	0.00580	mg/kg		12/23/10 09:07	12/29/10 11:23	1
Naphthalene	ND		0.00667	0.000900	mg/kg		12/23/10 09:07	12/29/10 11:23	1
Phenanthrene	ND		0.00667	0.00130	mg/kg		12/23/10 09:07	12/29/10 11:23	1
Pyrene	ND		0.00667	0.00140	mg/kg		12/23/10 09:07	12/29/10 11:23	1

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*80*		*35 - 120*	*12/23/10 09:07*	*12/29/10 11:23*	*1*
Nitrobenzene-d5	*80*		*30 - 120*	*12/23/10 09:07*	*12/29/10 11:23*	*1*
Terphenyl-d14	*101*		*50 - 120*	*12/23/10 09:07*	*12/29/10 11:23*	*1*

Lab Sample ID: 10L0188-BS1 | **Client Sample ID: 10L0188-BS1**
Matrix: Solid/Soil | **Prep Type: total**
Analysis Batch: 10L0188 | **Prep Batch: 10L0188_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
1-Methylnaphthalene	0.167	0.132		mg/kg		79	45 - 120
2-Methylnaphthalene	0.167	0.131		mg/kg		79	40 - 120
Acenaphthene	0.167	0.133		mg/kg		80	50 - 120
Acenaphthylene	0.167	0.142		mg/kg		85	50 - 120
Anthracene	0.167	0.138		mg/kg		83	60 - 120
Benzo (a) anthracene	0.167	0.141		mg/kg		85	65 - 120
Benzo (a) pyrene	0.167	0.130		mg/kg		78	40 - 120
Benzo (b) fluoranthene	0.167	0.155		mg/kg		93	60 - 120
Benzo (g,h,i) perylene	0.167	0.148		mg/kg		89	50 - 120
Benzo (k) fluoranthene	0.167	0.178		mg/kg		107	60 - 120
Chrysene	0.167	0.153		mg/kg		92	60 - 120
Dibenzo (a,h) anthracene	0.167	0.154		mg/kg		93	60 - 120
Fluoranthene	0.167	0.138		mg/kg		83	60 - 120
Fluorene	0.167	0.143		mg/kg		86	50 - 120
Indeno (1,2,3-cd) pyrene	0.167	0.153		mg/kg		92	55 - 120
Naphthalene	0.167	0.133		mg/kg		80	50 - 120
Phenanthrene	0.167	0.141		mg/kg		85	60 - 120
Pyrene	0.167	0.172		mg/kg		103	50 - 120

Method: EPA 8270 SIM - PAH Compounds by EPA Method 8270 SIM (Continued)

Lab Sample ID: 10L0188-BS1
Matrix: Solid/Soil
Analysis Batch: 10L0188

Client Sample ID: 10L0188-BS1
Prep Type: total
Prep Batch: 10L0188_P

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*84*		*35 - 120*
Nitrobenzene-d5	*83*		*30 - 120*
Terphenyl-d14	*103*		*50 - 130*

Lab Sample ID: 10L0188-MS1
Matrix: Solid/Soil
Analysis Batch: 10L0188

Client Sample ID: KHB-DU-14
Prep Type: total
Prep Batch: 10L0188_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
1-Methylnaphthalene	ND		0.164	0.110		mg/kg		67	45 - 120
2-Methylnaphthalene	0.00130	J	0.164	0.108		mg/kg		65	40 - 120
Acenaphthene	0.000977	J	0.164	0.133		mg/kg		81	50 - 120
Acenaphthylene	0.00228	J	0.164	0.144		mg/kg		87	50 - 120
Anthracene	0.00391	J	0.164	0.161		mg/kg		96	60 - 120
Benzo (a) anthracene	0.0948		0.164	0.266		mg/kg		104	65 - 120
Benzo (a) pyrene	0.169		0.164	0.360		mg/kg		117	40 - 120
Benzo (b) fluoranthene	0.272		0.164	0.442		mg/kg		103	60 - 120
Benzo (g,h,i) perylene	0.0619		0.164	0.176		mg/kg		70	50 - 120
Benzo (k) fluoranthene	0.0945		0.164	0.112	M1	mg/kg		11	60 - 120
Chrysene	0.121		0.164	0.291		mg/kg		104	60 - 120
Dibenzo (a,h) anthracene	0.0199		0.164	0.125		mg/kg		64	60 - 120
Fluoranthene	0.151		0.164	0.325		mg/kg		106	60 - 120
Fluorene	ND	J	0.164	0.151		mg/kg		92	50 - 120
Indeno (1,2,3-cd) pyrene	0.0655		0.164	0.191		mg/kg		76	55 - 120
Naphthalene	0.00195	J	0.164	0.103		mg/kg		62	50 - 120
Phenanthrene	0.0176		0.164	0.158		mg/kg		86	60 - 120
Pyrene	0.122		0.164	0.277		mg/kg		94	50 - 120

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
2-Fluorobiphenyl	*73*		*35 - 120*
Nitrobenzene-d5	*62*		*30 - 120*
Terphenyl-d14	*78*		*50 - 130*

Lab Sample ID: 10L0188-MSD1
Matrix: Solid/Soil
Analysis Batch: 10L0188

Client Sample ID: KHB-DU-14
Prep Type: total
Prep Batch: 10L0188_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
1-Methylnaphthalene	ND		0.167	0.120		mg/kg		72	45 - 120	8	30
2-Methylnaphthalene	0.00130	J	0.167	0.118		mg/kg		70	40 - 120	9	30
Acenaphthene	0.000977	J	0.167	0.137		mg/kg		81	50 - 120	3	30
Acenaphthylene	0.00228	J	0.167	0.152		mg/kg		90	50 - 120	5	30
Anthracene	0.00391	J	0.167	0.162		mg/kg		95	60 - 120	0.8	30
Benzo (a) anthracene	0.0948		0.167	0.263		mg/kg		101	65 - 120	1	30
Benzo (a) pyrene	0.169		0.167	0.384	M1	mg/kg		129	40 - 120	6	30
Benzo (b) fluoranthene	0.272		0.167	0.539	M1	mg/kg		160	60 - 120	20	30
Benzo (g,h,i) perylene	0.0619		0.167	0.159		mg/kg		58	50 - 120	10	30
Benzo (k) fluoranthene	0.0945		0.167	0.276	M1	mg/kg		109	60 - 120	85	30
Chrysene	0.121		0.167	0.284		mg/kg		98	60 - 120	3	30

Method: EPA 8270 SIM - PAH Compounds by EPA Method 8270 SIM (Continued)

Lab Sample ID: 10L0188-MSD1 | **Client Sample ID: KHB-DU-14**
Matrix: Solid/Soil | **Prep Type: total**
Analysis Batch: 10L0188 | **Prep Batch: 10L0188_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Dibenzo (a,h) anthracene	0.0199		0.167	0.114	M1	mg/kg		56	60 - 120	9	30
Fluoranthene	0.151		0.167	0.354	M1	mg/kg		122	60 - 120	9	30
Fluorene	ND	J	0.167	0.154		mg/kg		93	50 - 120	2	30
Indeno (1,2,3-cd) pyrene	0.0655		0.167	0.180		mg/kg		69	55 - 120	6	30
Naphthalene	0.00195	J	0.167	0.107		mg/kg		63	50 - 120	4	30
Phenanthrene	0.0176		0.167	0.164		mg/kg		88	60 - 120	3	30
Pyrene	0.122		0.167	0.276		mg/kg		92	50 - 120	0.4	30

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
2-Fluorobiphenyl	*82*		*35 - 120*
Nitrobenzene-d5	*65*		*30 - 120*
Terphenyl-d14	*76*		*50 - 130*

Method: EPA 8081 - Organochlorine Pesticides by EPA Method 8081

Lab Sample ID: 10L0171-BLK1 | **Client Sample ID: 10L0171-BLK1**
Matrix: Solid/Soil | **Prep Type: total**
Analysis Batch: 10L0171 | **Prep Batch: 10L0171_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.00400	0.00110	mg/kg		12/22/10 09:50	01/17/11 12:09	1
4,4'-DDE	ND		0.00400	0.00100	mg/kg		12/22/10 09:50	01/17/11 12:09	1
4,4'-DDT	ND		0.00400	0.000700	mg/kg		12/22/10 09:50	01/17/11 12:09	1
Aldrin	ND		0.00400	0.00150	mg/kg		12/22/10 09:50	01/17/11 12:09	1
alpha-BHC	ND		0.00400	0.00180	mg/kg		12/22/10 09:50	01/17/11 12:09	1
beta-BHC	ND		0.00400	0.00170	mg/kg		12/22/10 09:50	01/17/11 12:09	1
Chlordane	ND		0.0330	0.0140	mg/kg		12/22/10 09:50	01/17/11 12:09	1
delta-BHC	ND		0.00400	0.00160	mg/kg		12/22/10 09:50	01/17/11 12:09	1
Dieldrin	ND		0.00400	0.00140	mg/kg		12/22/10 09:50	01/17/11 12:09	1
Endosulfan I	ND		0.00400	0.00150	mg/kg		12/22/10 09:50	01/17/11 12:09	1
Endosulfan II	ND		0.00400	0.000800	mg/kg		12/22/10 09:50	01/17/11 12:09	1
Endosulfan sulfate	ND		0.00400	0.00100	mg/kg		12/22/10 09:50	01/17/11 12:09	1
Endrin	ND		0.00400	0.00100	mg/kg		12/22/10 09:50	01/17/11 12:09	1
Endrin aldehyde	ND		0.00400	0.000700	mg/kg		12/22/10 09:50	01/17/11 12:09	1
Endrin ketone	ND		0.00400	0.00170	mg/kg		12/22/10 09:50	01/17/11 12:09	1
gamma-BHC (Lindane)	ND		0.00400	0.00120	mg/kg		12/22/10 09:50	01/17/11 12:09	1
Heptachlor	ND		0.00400	0.00140	mg/kg		12/22/10 09:50	01/17/11 12:09	1
Heptachlor epoxide	ND		0.00400	0.00110	mg/kg		12/22/10 09:50	01/17/11 12:09	1
Methoxychlor	ND		0.0200	0.00140	mg/kg		12/22/10 09:50	01/17/11 12:09	1
Toxaphene	ND		0.0500	0.0500	mg/kg		12/22/10 09:50	01/17/11 12:09	1
alpha-Chlordane	ND		0.00400	0.00180	mg/kg		12/22/10 09:50	01/17/11 12:09	1
gamma-Chlordane	ND		0.00400	0.00100	mg/kg		12/22/10 09:50	01/17/11 12:09	1

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*80*		*45 - 120*	*12/22/10 09:50*	*01/17/11 12:09*	*1*
Tetrachloro-meta-xylene	*70*		*50 - 120*	*12/22/10 09:50*	*01/17/11 12:09*	*1*

Method: EPA 8081 - Organochlorine Pesticides by EPA Method 8081 (Continued)

Lab Sample ID: 10L0171-BS1 | **Client Sample ID: 10L0171-BS1**
Matrix: Solid/Soil | **Prep Type: total**
Analysis Batch: 10L0171 | **Prep Batch: 10L0171_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
4,4'-DDD	0.0667	0.0603		mg/kg		90	35 - 140
4,4'-DDE	0.0667	0.0562		mg/kg		84	55 - 125
4,4'-DDT	0.0667	0.0617		mg/kg		93	55 - 135
Aldrin	0.0667	0.0575		mg/kg		86	55 - 120
alpha-BHC	0.0667	0.0629		mg/kg		94	55 - 125
beta-BHC	0.0667	0.0520		mg/kg		78	55 - 125
delta-BHC	0.0667	0.0618		mg/kg		93	50 - 135
Dieldrin	0.0667	0.0586		mg/kg		88	60 - 125
Endosulfan I	0.0667	0.0574		mg/kg		86	45 - 125
Endosulfan II	0.0667	0.0587		mg/kg		88	55 - 120
Endosulfan sulfate	0.0667	0.0614		mg/kg		92	50 - 120
Endrin	0.0667	0.0650		mg/kg		98	60 - 125
Endrin aldehyde	0.0667	0.0595		mg/kg		89	40 - 130
Endrin ketone	0.0667	0.0601		mg/kg		90	55 - 125
gamma-BHC (Lindane)	0.0667	0.0567		mg/kg		85	55 - 120
Heptachlor	0.0667	0.0573		mg/kg		86	65 - 115
Heptachlor epoxide	0.0667	0.0555		mg/kg		83	60 - 120
Methoxychlor	0.0667	0.0642		mg/kg		96	55 - 135
alpha-Chlordane	0.0667	0.0559		mg/kg		84	45 - 130
gamma-Chlordane	0.0667	0.0566		mg/kg		85	55 - 120

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
Decachlorobiphenyl	*80*		*45 - 120*
Tetrachloro-meta-xylene	*73*		*50 - 120*

Lab Sample ID: 10L0171-MS1 | **Client Sample ID: HTL0114-09**
Matrix: Solid/Soil | **Prep Type: total**
Analysis Batch: 10L0171 | **Prep Batch: 10L0171_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
4,4'-DDD	ND		0.0645	0.0516		mg/kg		80	35 - 140
4,4'-DDE	0.0715		0.0645	0.0774	M4, RL1	mg/kg		9	55 - 125
4,4'-DDT	ND		0.0645	ND	M4, RL1	mg/kg			55 - 135
Aldrin	ND		0.0645	0.0419		mg/kg		65	55 - 120
alpha-BHC	ND		0.0645	0.0490		mg/kg		76	55 - 125
beta-BHC	ND		0.0645	0.0348	RL1, M4, J	mg/kg		54	55 - 125
delta-BHC	ND		0.0645	0.0403		mg/kg		62	50 - 135
Dieldrin	ND		0.0645	0.102	R1, RL1, M1	mg/kg		159	60 - 125
Endosulfan I	ND		0.0645	0.0384	RL1, J	mg/kg		60	45 - 125
Endosulfan II	ND		0.0645	0.0326	RL1, M4, J	mg/kg		50	55 - 120
Endosulfan sulfate	ND		0.0645	ND	M4, RL1	mg/kg			50 - 120
Endrin	ND		0.0645	0.0400		mg/kg		62	60 - 125
Endrin aldehyde	1.74		0.0645	1.19	M4, R1, RL1	mg/kg		-845	40 - 130
Endrin ketone	ND		0.0645	0.0316	RL1, M4, R10, J	mg/kg		49	55 - 125
gamma-BHC (Lindane)	ND		0.0645	0.0423		mg/kg		66	55 - 120
Heptachlor	ND		0.0645	0.0371	RL1, M4, J	mg/kg		57	65 - 115

Method: EPA 8081 - Organochlorine Pesticides by EPA Method 8081 (Continued)

Lab Sample ID: 10L0171-MS1 — **Client Sample ID: HTL0114-09**
Matrix: Solid/Soil — **Prep Type: total**
Analysis Batch: 10L0171 — **Prep Batch: 10L0171_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits		
Heptachlor epoxide	0.178		0.0645	0.136	M4, RL1, R1	mg/kg		-65	60 - 120		
Methoxychlor	ND		0.0645	ND	RL1, M4	mg/kg			55 - 135		
alpha-Chlordane	0.0646		0.0645	0.0806	M4, R10, RL1	mg/kg		25	45 - 130		
gamma-Chlordane	0.269		0.0645	0.192	RL1, M4, R1	mg/kg		-120	55 - 120		

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
Decachlorobiphenyl	*1060*	*RL1, Z1, R10*	*45 - 120*
Tetrachloro-meta-xylene	*69*		*50 - 120*

Lab Sample ID: 10L0171-MSD1 — **Client Sample ID: HTL0114-09**
Matrix: Solid/Soil — **Prep Type: total**
Analysis Batch: 10L0171 — **Prep Batch: 10L0171_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND		0.0660	ND	M4, RL1	mg/kg			35 - 140		30
4,4'-DDE	0.0715		0.0660	0.0795	M4, RL1, R1	mg/kg		12	55 - 125	3	30
4,4'-DDT	ND		0.0660	ND	M4, RL1	mg/kg			55 - 135		30
Aldrin	ND		0.0660	0.0409		mg/kg		62	55 - 120	2	30
alpha-BHC	ND		0.0660	0.0393	RL1, J	mg/kg		60	55 - 125	22	30
beta-BHC	ND		0.0660	0.0310	RL1, M4, J	mg/kg		47	55 - 125	12	30
delta-BHC	ND		0.0660	0.0380	RL1, J	mg/kg		58	50 - 135	6	30
Dieldrin	ND		0.0660	0.0782		mg/kg		118	60 - 125	27	30
Endosulfan I	ND		0.0660	0.0347	RL1, J	mg/kg		53	45 - 125	10	30
Endosulfan II	ND		0.0660	0.0340	RL1, M4, J	mg/kg		52	55 - 120	4	30
Endosulfan sulfate	ND		0.0660	ND	M4, RL1	mg/kg			50 - 120		30
Endrin	ND		0.0660	0.0380	RL1, M4, J	mg/kg		58	60 - 125	5	30
Endrin aldehyde	1.74		0.0660	1.08	M4, R1, RL1	mg/kg		-995	40 - 130	10	30
Endrin ketone	ND		0.0660	0.0307	RL1, M4, R10, J	mg/kg		46	55 - 125	3	30
gamma-BHC (Lindane)	ND		0.0660	0.0350	RL1, M4, J	mg/kg		53	55 - 120	19	30
Heptachlor	ND		0.0660	0.0330	RL1, M4, J	mg/kg		50	65 - 115	12	30
Heptachlor epoxide	0.178		0.0660	0.137	M4, RL1, R1	mg/kg		-63	60 - 120	0.6	30
Methoxychlor	ND		0.0660	ND	RL1, M4	mg/kg			55 - 135		30
alpha-Chlordane	0.0646		0.0660	0.0752	M4, R10, RL1	mg/kg		16	45 - 130	7	30
gamma-Chlordane	0.269		0.0660	0.183	RL1, M4	mg/kg		-131	55 - 120	5	30

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
Decachlorobiphenyl		*RL1, Z*	*45 - 120*
Tetrachloro-meta-xylene	*60*		*50 - 120*

Method: 8290 - Dioxins/Furans, HRGC/HRMS (8290)

Lab Sample ID: G0L290000201B
Matrix: Solid
Analysis Batch: 0363201

Client Sample ID: INTRA-LAB BLANK
Prep Type: Total
Prep Batch: 0363201_P

Analyte	Result	Qualifier	RL	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		2.0	0.051	1		pg/g		12/29/10 18:00	01/06/11 15:46	2
Total TCDD	ND		2.0	0.081			pg/g		12/29/10 18:00	01/06/11 15:46	2
1,2,3,7,8-PeCDD	ND		10	0.089	0.5		pg/g		12/29/10 18:00	01/06/11 15:46	2
Total PeCDD	ND		10	0.089			pg/g		12/29/10 18:00	01/06/11 15:46	2
1,2,3,4,7,8-HxCDD	ND		10	0.068	0.1		pg/g		12/29/10 18:00	01/06/11 15:46	2
1,2,3,6,7,8-HxCDD	ND		10	0.028	0.1		pg/g		12/29/10 18:00	01/06/11 15:46	2
1,2,3,7,8,9-HxCDD	ND		10	0.026	0.1		pg/g		12/29/10 18:00	01/06/11 15:46	2
Total HxCDD	ND		10	0.13			pg/g		12/29/10 18:00	01/06/11 15:46	2
1,2,3,4,6,7,8-HpCDD	ND		10	0.12	0.01		pg/g		12/29/10 18:00	01/06/11 15:46	2
Total HpCDD	ND		10	0.32			pg/g		12/29/10 18:00	01/06/11 15:46	2
OCDD	ND		20	2.8	0.001		pg/g		12/29/10 18:00	01/06/11 15:46	2
2,3,7,8-TCDF	ND		2.0	0.15	0.1		pg/g		12/29/10 18:00	01/06/11 15:46	2
Total TCDF	ND		2.0	0.15			pg/g		12/29/10 18:00	01/06/11 15:46	2
1,2,3,7,8-PeCDF	ND		10	0.20	0.05		pg/g		12/29/10 18:00	01/06/11 15:46	2
2,3,4,7,8-PeCDF	ND		10	0.20	0.5		pg/g		12/29/10 18:00	01/06/11 15:46	2
Total PeCDF	ND		10	0.20			pg/g		12/29/10 18:00	01/06/11 15:46	2
1,2,3,4,7,8-HxCDF	ND		10	0.025	0.1		pg/g		12/29/10 18:00	01/06/11 15:46	2
1,2,3,6,7,8-HxCDF	ND		10	0.11	0.1		pg/g		12/29/10 18:00	01/06/11 15:46	2
2,3,4,6,7,8-HxCDF	ND		10	0.040	0.1		pg/g		12/29/10 18:00	01/06/11 15:46	2
1,2,3,7,8,9-HxCDF	ND		10	0.061	0.1		pg/g		12/29/10 18:00	01/06/11 15:46	2
Total HxCDF	ND		10	0.11			pg/g		12/29/10 18:00	01/06/11 15:46	2
1,2,3,4,6,7,8-HpCDF	ND		10	0.14	0.01		pg/g		12/29/10 18:00	01/06/11 15:46	2
1,2,3,4,7,8,9-HpCDF	ND		10	0.093	0.01		pg/g		12/29/10 18:00	01/06/11 15:46	2
Total HpCDF	ND		10	0.14			pg/g		12/29/10 18:00	01/06/11 15:46	2
OCDF	ND		20	0.67	0.001		pg/g		12/29/10 18:00	01/06/11 15:46	2
Total TEQ						**0.00**					

Internal Standard	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*95*		*40 - 135*	*12/29/10 18:00*	*01/06/11 15:46*	*2*
13C-1,2,3,7,8-PeCDD	*99*		*40 - 135*	*12/29/10 18:00*	*01/06/11 15:46*	*2*
13C-1,2,3,6,7,8-HxCDD	*105*		*40 - 135*	*12/29/10 18:00*	*01/06/11 15:46*	*2*
13C-1,2,3,4,6,7,8-HpCDD	*82*		*40 - 135*	*12/29/10 18:00*	*01/06/11 15:46*	*2*
13C-OCDD	*79*		*40 - 135*	*12/29/10 18:00*	*01/06/11 15:46*	*2*
13C-2,3,7,8-TCDF	*97*		*40 - 135*	*12/29/10 18:00*	*01/06/11 15:46*	*2*
13C-1,2,3,7,8-PeCDF	*99*		*40 - 135*	*12/29/10 18:00*	*01/06/11 15:46*	*2*
13C-1,2,3,4,7,8-HxCDF	*88*		*40 - 135*	*12/29/10 18:00*	*01/06/11 15:46*	*2*
13C-1,2,3,4,6,7,8-HpCDF	*87*		*40 - 135*	*12/29/10 18:00*	*01/06/11 15:46*	*2*

Lab Sample ID: G0L290000201C
Matrix: Solid
Analysis Batch: 0363201

Client Sample ID: CHECK SAMPLE
Prep Type: Total
Prep Batch: 0363201_P

Analyte	Spike Added	Result	Qualifier	Unit	D	% Rec	% Rec. Limits
2,3,7,8-TCDD	20.0	23.1		pg/g		116	77 - 130
1,2,3,7,8-PeCDD	100	118		pg/g		118	79 - 134
1,2,3,4,7,8-HxCDD	100	105		pg/g		105	65 - 144
1,2,3,6,7,8-HxCDD	100	113		pg/g		113	73 - 147
1,2,3,7,8,9-HxCDD	100	114		pg/g		114	80 - 143
1,2,3,4,6,7,8-HpCDD	100	111		pg/g		111	86 - 134

Method: 8290 - Dioxins/Furans, HRGC/HRMS (8290) (Continued)

Lab Sample ID: G0L290000201C — **Client Sample ID: CHECK SAMPLE**
Matrix: Solid — **Prep Type: Total**
Analysis Batch: 0363201 — **Prep Batch: 0363201_P**

Analyte	Spike Added	Result	Qualifier	Unit	D	% Rec	% Rec. Limits
OCDD	200	217		pg/g		109	80 - 137
2,3,7,8-TCDF	20.0	21.6		pg/g		108	79 - 137
1,2,3,7,8-PeCDF	100	108		pg/g		108	81 - 134
2,3,4,7,8-PeCDF	100	106		pg/g		106	76 - 132
1,2,3,4,7,8-HxCDF	100	110		pg/g		110	72 - 140
1,2,3,6,7,8-HxCDF	100	119		pg/g		119	63 - 152
2,3,4,6,7,8-HxCDF	100	116		pg/g		116	72 - 151
1,2,3,7,8,9-HxCDF	100	114		pg/g		114	72 - 152
1,2,3,4,6,7,8-HpCDF	100	122		pg/g		122	81 - 137
1,2,3,4,7,8,9-HpCDF	100	126		pg/g		126	79 - 139
OCDF	200	214		pg/g		107	75 - 141

Internal Standard	*% Recovery*	*Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*89*		*40 - 135*
13C-1,2,3,7,8-PeCDD	*97*		*40 - 135*
13C-1,2,3,6,7,8-HxCDD	*96*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDD	*100*		*40 - 135*
13C-OCDD	*94*		*40 - 135*
13C-2,3,7,8-TCDF	*85*		*40 - 135*
13C-1,2,3,7,8-PeCDF	*97*		*40 - 135*
13C-1,2,3,4,7,8-HxCDF	*89*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDF	*91*		*40 - 135*

Method: EPA 6010 - Total Metals by EPA Method 6010/7471

Lab Sample ID: 10L0192-BLK1 — **Client Sample ID: 10L0192-BLK1**
Matrix: Solid/Soil — **Prep Type: total**
Analysis Batch: 10L0192 — **Prep Batch: 10L0192_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.582	J	10.0	0.0800	mg/kg		12/28/10 12:13	01/12/11 12:06	1
Barium	ND		20.0	0.0840	mg/kg		12/28/10 12:13	01/12/11 12:06	1
Cadmium	ND		4.00	0.0810	mg/kg		12/28/10 12:13	01/12/11 12:06	1
Chromium	ND		10.0	0.0730	mg/kg		12/28/10 12:13	01/12/11 12:06	1
Lead	0.200	J	20.0	0.0700	mg/kg		12/28/10 12:13	01/12/11 12:06	1
Selenium	0.507	J	20.0	0.0900	mg/kg		12/28/10 12:13	01/12/11 12:06	1
Silver	0.210	J	10.0	0.00700	mg/kg		12/28/10 12:13	01/12/11 12:06	1

Lab Sample ID: 10L0192-BS1 — **Client Sample ID: 10L0192-BS1**
Matrix: Solid/Soil — **Prep Type: total**
Analysis Batch: 10L0192 — **Prep Batch: 10L0192_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	100	105		mg/kg		105	80 - 120
Barium	100	102		mg/kg		102	80 - 120
Cadmium	100	103		mg/kg		103	80 - 120
Chromium	100	96.5		mg/kg		97	80 - 120
Lead	100	97.7		mg/kg		98	80 - 120
Selenium	100	96.8		mg/kg		97	80 - 120
Silver	10.0	9.69	J	mg/kg		97	80 - 120

Lab Sample ID: 10L0192-MS1 — **Client Sample ID: HTL0100-25**
Matrix: Solid/Soil — **Prep Type: total**
Analysis Batch: 10L0192 — **Prep Batch: 10L0192_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	6.18		90.7	54.0	M1	mg/kg		53	80 - 120
Barium			90.7	315	M1	mg/kg		347	80 - 120
Cadmium			90.7	82.8		mg/kg		91	80 - 120
Chromium			90.7	136		mg/kg		150	80 - 120
Lead	383		90.7	487		mg/kg		114	80 - 120
Selenium			90.7	33.6	M1	mg/kg		37	80 - 120
Silver			9.07	10.3		mg/kg		113	80 - 120

Lab Sample ID: 10L0192-MSD1 — **Client Sample ID: HTL0100-25**
Matrix: Solid/Soil — **Prep Type: total**
Analysis Batch: 10L0192 — **Prep Batch: 10L0192_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Arsenic	6.18		91.2	56.6	M1	mg/kg		55	80 - 120	5	20
Barium			91.2	326	M1	mg/kg		357	80 - 120	3	20
Cadmium			91.2	85.4		mg/kg		94	80 - 120	3	20
Chromium			91.2	143		mg/kg		157	80 - 120	5	20
Lead	383		91.2	486		mg/kg		112	80 - 120	0.2	20
Selenium			91.2	36.5	M1	mg/kg		40	80 - 120	8	20
Silver			9.12	10.5		mg/kg		115	80 - 120	2	20

Method: EPA 7471 - Total Metals by EPA Method 6010/7471

Lab Sample ID: 11A0038-BLK1 — **Client Sample ID: 11A0038-BLK1**
Matrix: Solid/Soil — **Prep Type: total**
Analysis Batch: 11A0038 — **Prep Batch: 11A0038_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00500	0.000100	mg/kg		01/10/11 09:35	01/10/11 14:39	1

Lab Sample ID: 11A0038-BS1 — **Client Sample ID: 11A0038-BS1**
Matrix: Solid/Soil — **Prep Type: total**
Analysis Batch: 11A0038 — **Prep Batch: 11A0038_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.524	0.506		mg/kg		96	80 - 120

Lab Sample ID: 11A0038-MS1 — **Client Sample ID: KHB-DU-14**
Matrix: Solid/Soil — **Prep Type: total**
Analysis Batch: 11A0038 — **Prep Batch: 11A0038_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.629		0.474	1.10		mg/kg		99	75 - 125

Lab Sample ID: 11A0038-MSD1 — **Client Sample ID: KHB-DU-14**
Matrix: Solid/Soil — **Prep Type: total**
Analysis Batch: 11A0038 — **Prep Batch: 11A0038_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	0.629		0.450	1.01		mg/kg		85	75 - 125	8	20

QC Association Summary

Client: Department of Health, HEER Office
Project/Site: [none]

TestAmerica Job ID: HTL0124
SDG: HTL0124

GCMS Semivolatiles

Analysis Batch: 10L0188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
10L0188-BLK1	10L0188-BLK1	total	Solid/Soil	EPA 8270 SIM	10L0188_P
10L0188-BS1	10L0188-BS1	total	Solid/Soil	EPA 8270 SIM	10L0188_P
10L0188-MS1	KHB-DU-14	total	Solid/Soil	EPA 8270 SIM	10L0188_P
10L0188-MSD1	KHB-DU-14	total	Solid/Soil	EPA 8270 SIM	10L0188_P
HTL0124-01	KHB-DU-14	total	Solid/Soil	EPA 8270 SIM	10L0188_P
HTL0124-02	KHB-DU-15	total	Solid/Soil	EPA 8270 SIM	10L0188_P
HTL0124-03	KHB-DU-16	total	Solid/Soil	EPA 8270 SIM	10L0188_P
HTL0124-04	KHB-DU-17	total	Solid/Soil	EPA 8270 SIM	10L0188_P

Prep Batch: 10L0188_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
10L0188-BLK1	10L0188-BLK1	total	Solid/Soil	EPA 3550 MS	
10L0188-BS1	10L0188-BS1	total	Solid/Soil	EPA 3550 MS	
10L0188-MS1	KHB-DU-14	total	Solid/Soil	EPA 3550 MS	
10L0188-MSD1	KHB-DU-14	total	Solid/Soil	EPA 3550 MS	
HTL0124-01	KHB-DU-14	total	Solid/Soil	EPA 3550 MS	
HTL0124-02	KHB-DU-15	total	Solid/Soil	EPA 3550 MS	
HTL0124-03	KHB-DU-16	total	Solid/Soil	EPA 3550 MS	
HTL0124-04	KHB-DU-17	total	Solid/Soil	EPA 3550 MS	

GC Semivolatiles

Analysis Batch: 10L0171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
10L0171-BLK1	10L0171-BLK1	total	Solid/Soil	EPA 8081	10L0171_P
10L0171-BS1	10L0171-BS1	total	Solid/Soil	EPA 8081	10L0171_P
HTL0124-01	KHB-DU-14	total	Solid/Soil	EPA 8081	10L0171_P
HTL0124-02	KHB-DU-15	total	Solid/Soil	EPA 8081	10L0171_P
HTL0124-03	KHB-DU-16	total	Solid/Soil	EPA 8081	10L0171_P
HTL0124-04	KHB-DU-17	total	Solid/Soil	EPA 8081	10L0171_P
10L0171-MS1	HTL0114-09	total	Solid/Soil	EPA 8081	10L0171_P
10L0171-MSD1	HTL0114-09	total	Solid/Soil	EPA 8081	10L0171_P

Prep Batch: 10L0171_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
10L0171-BLK1	10L0171-BLK1	total	Solid/Soil	EPA 3550 GC	
10L0171-BS1	10L0171-BS1	total	Solid/Soil	EPA 3550 GC	
HTL0124-01	KHB-DU-14	total	Solid/Soil	EPA 3550 GC	
HTL0124-02	KHB-DU-15	total	Solid/Soil	EPA 3550 GC	
HTL0124-03	KHB-DU-16	total	Solid/Soil	EPA 3550 GC	
HTL0124-04	KHB-DU-17	total	Solid/Soil	EPA 3550 GC	
10L0171-MS1	HTL0114-09	total	Solid/Soil	EPA 3550 GC	
10L0171-MSD1	HTL0114-09	total	Solid/Soil	EPA 3550 GC	

DIOXIN

Analysis Batch: 0363201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
G0L290000201B	INTRA-LAB BLANK	Total	Solid	8290	
HTL0124-01	KHB-DU-14	Total	Solid/Soil	8290	
HTL0124-02	KHB-DU-15	Total	Solid/Soil	8290	
HTL0124-03	KHB-DU-16	Total	Solid/Soil	8290	

DIOXIN (Continued)

Analysis Batch: 0363201 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HTL0124-04	KHB-DU-17	Total	Solid/Soil	8290	
G0L290000201C	CHECK SAMPLE	Total	Solid	8290	

Prep Batch: 0363201_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
G0L290000201B	INTRA-LAB BLANK	Total	Solid	8290	
HTL0124-01	KHB-DU-14	Total	Solid/Soil	8290	
HTL0124-02	KHB-DU-15	Total	Solid/Soil	8290	
HTL0124-03	KHB-DU-16	Total	Solid/Soil	8290	
HTL0124-04	KHB-DU-17	Total	Solid/Soil	8290	
G0L290000201C	CHECK SAMPLE	Total	Solid	8290	

Metals

Analysis Batch: 10L0192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
10L0192-BLK1	10L0192-BLK1	total	Solid/Soil	EPA 6010	10L0192_P
10L0192-BS1	10L0192-BS1	total	Solid/Soil	EPA 6010	10L0192_P
10L0192-MS1	HTL0100-25	total	Solid/Soil	EPA 6010	10L0192_P
10L0192-MSD1	HTL0100-25	total	Solid/Soil	EPA 6010	10L0192_P
HTL0124-01	KHB-DU-14	total	Solid/Soil	EPA 6010	10L0192_P
HTL0124-02	KHB-DU-15	total	Solid/Soil	EPA 6010	10L0192_P
HTL0124-03	KHB-DU-16	total	Solid/Soil	EPA 6010	10L0192_P
HTL0124-04	KHB-DU-17	total	Solid/Soil	EPA 6010	10L0192_P

Prep Batch: 10L0192_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
10L0192-BLK1	10L0192-BLK1	total	Solid/Soil	EPA 3050	
10L0192-BS1	10L0192-BS1	total	Solid/Soil	EPA 3050	
10L0192-MS1	HTL0100-25	total	Solid/Soil	EPA 3050	
10L0192-MSD1	HTL0100-25	total	Solid/Soil	EPA 3050	
HTL0124-01	KHB-DU-14	total	Solid/Soil	EPA 3050	
HTL0124-02	KHB-DU-15	total	Solid/Soil	EPA 3050	
HTL0124-03	KHB-DU-16	total	Solid/Soil	EPA 3050	
HTL0124-04	KHB-DU-17	total	Solid/Soil	EPA 3050	

Analysis Batch: 11A0038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11A0038-BLK1	11A0038-BLK1	total	Solid/Soil	EPA 7471	11A0038_P
11A0038-BS1	11A0038-BS1	total	Solid/Soil	EPA 7471	11A0038_P
11A0038-MS1	KHB-DU-14	total	Solid/Soil	EPA 7471	11A0038_P
11A0038-MSD1	KHB-DU-14	total	Solid/Soil	EPA 7471	11A0038_P
HTL0124-01	KHB-DU-14	total	Solid/Soil	EPA 7471	11A0038_P
HTL0124-02	KHB-DU-15	total	Solid/Soil	EPA 7471	11A0038_P
HTL0124-03	KHB-DU-16	total	Solid/Soil	EPA 7471	11A0038_P
HTL0124-04	KHB-DU-17	total	Solid/Soil	EPA 7471	11A0038_P

Prep Batch: 11A0038_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11A0038-BLK1	11A0038-BLK1	total	Solid/Soil	EPA 7471	
11A0038-BS1	11A0038-BS1	total	Solid/Soil	EPA 7471	
11A0038-MS1	KHB-DU-14	total	Solid/Soil	EPA 7471	

Metals (Continued)

Prep Batch: 11A0038_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11A0038-MSD1	KHB-DU-14	total	Solid/Soil	EPA 7471	
HTL0124-01	KHB-DU-14	total	Solid/Soil	EPA 7471	
HTL0124-02	KHB-DU-15	total	Solid/Soil	EPA 7471	
HTL0124-03	KHB-DU-16	total	Solid/Soil	EPA 7471	
HTL0124-04	KHB-DU-17	total	Solid/Soil	EPA 7471	

Lab Chronicle

Client: Department of Health, HEER Office
Project/Site: [none]

TestAmerica Job ID: HTL0124
SDG: HTL0124

Client Sample ID: KHB-DU-14

Lab Sample ID: HTL0124-01
Date Collected: 12/13/10 15:30
Matrix: Solid/Soil
Date Received: 12/17/10 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	EPA 3550 MS		0.977	10L0188_P	12/23/10 09:07	KB	TestAmerica Honolulu
total	Analysis	EPA 8270 SIM		1	10L0188	12/29/10 14:10	VH	TestAmerica Honolulu
total	Prep	EPA 3550 GC		0.993	10L0171_P	12/22/10 10:44	KB	TestAmerica Honolulu
total	Analysis	EPA 8081		1	10L0171	01/17/11 13:46	SUI	TestAmerica Honolulu
Total	Prep	8290			0363201_P	12/29/10 18:00		TestAmerica West Sacramento
Total	Analysis	8290		4.85	0363201	01/06/11 17:28		TestAmerica West Sacramento
total	Prep	EPA 3050		0.942	10L0192_P	12/28/10 12:13	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		1	10L0192	01/12/11 12:36	RRG	TestAmerica Honolulu
total	Prep	EPA 7471		0.996	11A0038_P	01/10/11 09:35	JLM	TestAmerica Honolulu
total	Analysis	EPA 7471		10	11A0038	01/10/11 14:52	JLM	TestAmerica Honolulu

Client Sample ID: KHB-DU-15

Lab Sample ID: HTL0124-02
Date Collected: 12/13/10 10:30
Matrix: Solid/Soil
Date Received: 12/17/10 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	EPA 3550 MS		0.958	10L0188_P	12/23/10 09:07	KB	TestAmerica Honolulu
total	Analysis	EPA 8270 SIM		1	10L0188	12/30/10 15:23	VH	TestAmerica Honolulu
total	Prep	EPA 3550 GC		0.984	10L0171_P	12/22/10 10:44	KB	TestAmerica Honolulu
total	Analysis	EPA 8081		1	10L0171	01/17/11 14:05	SUI	TestAmerica Honolulu
Total	Prep	8290			0363201_P	12/29/10 18:00		TestAmerica West Sacramento
Total	Analysis	8290		32.25	0363201	01/06/11 18:18		TestAmerica West Sacramento
total	Prep	EPA 3050		0.968	10L0192_P	12/28/10 12:13	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		1	10L0192	01/12/11 12:41	RRG	TestAmerica Honolulu
total	Prep	EPA 7471		1.02	11A0038_P	01/10/11 09:35	JLM	TestAmerica Honolulu
total	Analysis	EPA 7471		10	11A0038	01/10/11 14:54	JLM	TestAmerica Honolulu

Client Sample ID: KHB-DU-16

Lab Sample ID: HTL0124-03
Date Collected: 12/13/10 11:15
Matrix: Solid/Soil
Date Received: 12/17/10 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	EPA 3550 MS		0.949	10L0188_P	12/23/10 09:07	KB	TestAmerica Honolulu
total	Analysis	EPA 8270 SIM		1	10L0188	12/30/10 16:06	VH	TestAmerica Honolulu
total	Prep	EPA 3550 GC		0.940	10L0171_P	12/22/10 10:44	KB	TestAmerica Honolulu
total	Analysis	EPA 8081		1	10L0171	01/17/11 14:25	SUI	TestAmerica Honolulu
Total	Prep	8290			0363201_P	12/29/10 18:00		TestAmerica West Sacramento
Total	Analysis	8290		47.61	0363201	01/06/11 19:09		TestAmerica West Sacramento
total	Prep	EPA 3050		0.974	10L0192_P	12/28/10 12:13	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		1	10L0192	01/12/11 12:46	RRG	TestAmerica Honolulu
total	Prep	EPA 7471		0.893	11A0038_P	01/10/11 09:35	JLM	TestAmerica Honolulu
total	Analysis	EPA 7471		10	11A0038	01/10/11 14:55	JLM	TestAmerica Honolulu

Lab Chronicle

Client: Department of Health, HEER Office
Project/Site: [none]

TestAmerica Job ID: HTL0124
SDG: HTL0124

Client Sample ID: KHB-DU-17

Date Collected: 12/13/10 12:00
Date Received: 12/17/10 16:00

Lab Sample ID: HTL0124-04

Matrix: Solid/Soil

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	EPA 3550 MS		0.993	10L0188_P	12/23/10 09:07	KB	TestAmerica Honolulu
total	Analysis	EPA 8270 SIM		1	10L0188	12/30/10 16:50	VH	TestAmerica Honolulu
total	Prep	EPA 3550 GC		0.971	10L0171_P	12/22/10 10:44	KB	TestAmerica Honolulu
total	Analysis	EPA 8081		1	10L0171	01/17/11 14:44	SUI	TestAmerica Honolulu
Total	Prep	8290			0363201_P	12/29/10 18:00		TestAmerica West Sacramento
Total	Analysis	8290		45.45	0363201	01/06/11 20:00		TestAmerica West Sacramento
total	Prep	EPA 3050		0.977	10L0192_P	12/28/10 12:13	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		1	10L0192	01/12/11 12:51	RRG	TestAmerica Honolulu
total	Prep	EPA 7471		0.873	11A0038_P	01/10/11 09:35	JLM	TestAmerica Honolulu
total	Analysis	EPA 7471		10	11A0038	01/10/11 14:56	JLM	TestAmerica Honolulu

Certification Summary

Client: Department of Health, HEER Office
Project/Site: [none]

TestAmerica Job ID: HTL0124
SDG: HTL0124

Laboratory	Authority	Program	EPA Region	Certification ID	Expiration Date
TestAmerica Honolulu		USDA		HON-S-206	01/31/12
TestAmerica Honolulu	Florida	NELAC	4	E87907	06/30/11
TestAmerica Honolulu	Hawaii	State Program	9		06/28/11
TestAmerica Honolulu	L-A-B	DoD ELAP	0	L2250	04/23/13
TestAmerica West Sacramento		US Fish & Wildlife		LE148388-0	02/28/11
TestAmerica West Sacramento		USDA		P330-09-00055	03/19/12
TestAmerica West Sacramento		USEPA		CA00044	10/18/11
TestAmerica West Sacramento	A2LA	A2LA	0	C581	05/05/11
TestAmerica West Sacramento	A2LA	DoD ELAP	0	2928-01	01/31/12
TestAmerica West Sacramento	Alaska	Alaska UST	10	UST-055	12/08/11
TestAmerica West Sacramento	Arizona	State Program	9	AZ0708	08/11/11
TestAmerica West Sacramento	Arkansas	State Program	6	88-0691	06/17/11
TestAmerica West Sacramento	California	NELAC	9	1119CA	01/31/11
TestAmerica West Sacramento	Colorado	State Program	8	N/A	08/31/11
TestAmerica West Sacramento	Connecticut	State Program	1	PH-0691	06/30/11
TestAmerica West Sacramento	Florida	NELAC	4	E87570	06/30/11
TestAmerica West Sacramento	Georgia	State Program	4	960	01/31/10
TestAmerica West Sacramento	Guam	State Program	9	N/A	08/31/11
TestAmerica West Sacramento	Hawaii	State Program	9	N/A	01/31/11
TestAmerica West Sacramento	Illinois	NELAC	5	200060	03/17/11
TestAmerica West Sacramento	Kansas	NELAC	7	E-10375	10/31/11
TestAmerica West Sacramento	Louisiana	NELAC	6	30612	06/30/11
TestAmerica West Sacramento	Michigan	State Program	5	9947	01/31/11
TestAmerica West Sacramento	Nevada	State Program	9	CA44	07/31/11
TestAmerica West Sacramento	New Jersey	NELAC	2	CA005	06/30/11
TestAmerica West Sacramento	New Mexico	State Program	6	N/A	01/31/11
TestAmerica West Sacramento	New York	NELAC	2	11666	04/01/11
TestAmerica West Sacramento	Oregon	NELAC	10	CA200005	03/28/11
TestAmerica West Sacramento	Pennsylvania	NELAC	3	68-01272	03/31/11
TestAmerica West Sacramento	South Carolina	State Program	4	87014	01/31/11
TestAmerica West Sacramento	Texas	NELAC	6	T104704399-08-TX	05/31/11
TestAmerica West Sacramento	Utah	NELAC	8	QUAN1	01/31/11
TestAmerica West Sacramento	Virginia	State Program	3	178	06/30/11
TestAmerica West Sacramento	Washington	State Program	10	C1281	05/05/11
TestAmerica West Sacramento	West Virginia	State Program	3	9930C	12/31/10
TestAmerica West Sacramento	West Virginia	State Program	3	334	07/31/11
TestAmerica West Sacramento	Wisconsin	State Program	5	998204680	08/31/11
TestAmerica West Sacramento	Wyoming	State Program	8	8TMS-Q	01/31/11

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method Summary

Client: Department of Health, HEER Office
Project/Site: [none]

TestAmerica Job ID: HTL0124
SDG: HTL0124

Method	Method Description	Protocol	Laboratory
EPA 8270 SIM	PAH Compounds by EPA Method 8270 SIM		TAL HON
EPA 8081	Organochlorine Pesticides by EPA Method 8081		TAL HON
8290	Dioxins/Furans, HRGC/HRMS (8290)	SW846	TAL WSC
EPA 6010	Total Metals by EPA Method 6010/7471		TAL HON
EPA 7471	Total Metals by EPA Method 6010/7471		TAL HON

Protocol References:

=

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HON = TestAmerica Honolulu, 99-193 Aiea Heights Drive, Suite 121, Aiea, HI 96701, TEL 808-486-5227

TAL WSC = TestAmerica West Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

TestAmerica
ANALYTICAL TESTING CORPORATION

TestAmerica - Honolulu
99-193 Aiea Heights Drive Suite 121 • Aiea, HI 96701-3900
808-486-LABS (5227) • Fax 808-486-2456

LABORATORY USE ONLY
LAB JOB NO. HTL0124
LOCATION
CONTAINERS

Chain of Custody / Analysis Request Form

Report to: John Pennd, Hilo HEER office
Company name: c/o HI District Health office
Address: PO Box 916
City: Hilo State: HI ZIP: 96721-0916
Phone: 933-9921 Fax:
Sampler: John Pennd # samples in shipment:

Project identification
Job name: Kohala PMA - Harbottle
Job number:
P.O. number:
Contact email address: john.pennd@doh.hawaii.gov
Date results needed: STAT

Indicate analyses requested: METALS (RCRA 8) (mercury 7471) / Organochlorine Pesticides 8081A / Dioxin/Furans 8290 / SVOCs - 8270

Item no.	Client sample ID	MIS	GRAB	Matrix: Water	Soil	Wastewater	Drinking water	Sludge	Liquid	Solid	Oil	Other	Preservation method	Sampling Date 12/13/10	Time	No. of containers	METALS (RCRA 8)	Organochlorine Pesticides 8081A	Dioxin/Furans 8290	SVOCs - 8270	Laboratory ID no.
1	KHB - DU-14	X			X								on ice	12-13	3:30 pm	1	X	X	X	X	HTL0124-01
2	DU-15												on ice	12-13	10:30 am	1	X	X	X	X	-02
3	DU-16												on ice	12-13	11:15 am	1	X	X	X	X	-03
4	DU-17												on ice	12-13	12:00 pm	1	X	X	X	X	-04
5																					
6																					
7																					
8																					
9																					
10																					

Released by (print / sign)	Date / time released	Delivery method	Received by (print / sign)	Company / Agency affiliation	Date / time received	Condition noted
John Pennd / John Pennd	12-13-10 / 4:15 pm	Hand	Stephen Fallon / [signature]	Testamerica	12/17/10 / 15:00	Intact 2°C
Stephen Fallon / [signature]	12-16-10 / 11:00 am	Aloha Air Cargo	M Haskett / [signature]	Testamerica	12/17/10 / 16:00	Intact 2°C

Comments: MIS Procedures. (These are surface soil samples).
- Bill analyses to Tetra Tech (Heer office contractor) contact John Pennd if problems.
- Send total arsenic results to John Pennd for decision on which need followup Bioaccessible Arsenic analyses.

Please check one:
☐ Dispose by lab
☐ Return to client
☐ Archive

COC REV 06/2006 Distribution: White - TestAmerica Yellow - TestAmerica Pink - Client

Page 1 of 1

TestAmerica

Rush TAT Confirmation (Initial/Date) N/A

Sample Receipt Checklist

Client Name: Depart of Health HSR Date/ Time Received: 12/17/10 16:00

Received By: WSH

Matrices: Soil Carrier: Airbill# :

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Chain of Custody present?	Yes ☑	No ☐	☐
Chain of Custody Signed when relinquished and received?	Yes ☑	No ☐	
Chain of Custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sample containers on ice?	Yes ☑	No ☐	Type: wet
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Water - VOA Vials have Zero Headspace?	Yes ☐	No ☐	No VOA vials present: ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Checked: ☑
pH Adjusted?	Yes ☐	No ☑	Final pH:
Encores / MI-VOC / 5035 Vials Present?	Yes ☐	No ☑	Location:
Sample Filtration Needed?	Yes ☐	No ☑	Filtered in Field: ☐
Dry Weight Corrected Results?	Yes ☑	No ☐	Take Action: ☐
DODQSM / QAPP Project?	Yes ☐	No ☑	Type:

Temperature Blank Present? Yes ☐ No ☑

Sample Container Temperature: 2 °C

Comments/ Sampling Handling Notes:

APPENDIX D

LABORATORY REPORT FOR OCTOBER 2011 HDOH SAMPLING EVENT

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Honolulu
99-193 Aiea Heights Drive, Suite 121
Aiea, HI 96701
Tel: 808-486-5227

TestAmerica Job ID: HUJ0059
Client Project/Site: Kohala PMA 2
Client Project Description: Pest Mixing Areas

For:
Department of Health, HEER Office
919 Ala Moana Boulevard, Room 206
Honolulu, HI 96814

Attn: Laura Young

Authorized for release by:
11/18/2011 5:21:22 PM

Marvin D. Heskett III
Laboratory Director
marvin.heskett@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Estimated result. Result is less than RL.
PG	The percent difference between the original and confirmation analyses is greater than 40%.
G	Elevated reporting limit. The reporting limit is elevated due to matrix interference.
B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
SRD	The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.
*	Surrogate recovery is outside stated control limits.
a	Spiked analyte recovery is outside stated control limits.

DIOXIN

Qualifier	Qualifier Description
CON	Confirmation analysis.
D	Result was obtained from the analysis of a dilution.
*	Surrogate recovery is outside stated control limits.
H	

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: HUJ0059

Laboratory: TestAmerica Honolulu

Narrative

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory unless otherwise stated in the report. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. TestAmerica Analytical Testing Corporation certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

The Chain(s) of Custody are included and are an integral part of this report. This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(808)486-5227

LABORATORY REPORT

At sample receipt, the cooler/sample was 24 degrees C.
NELAC states that samples which require thermal preservation shall be considered acceptable if the arrival temperature is within 2 degrees C of the required temperature or the method specified range. For samples with a temperature requirement of 4 degrees C, an arrival temperature from 0 degrees C to 6 degrees C meets specifications. Samples that are delivered to the laboratory on the same day that they are collected may not meet these criteria. In these cases, the samples are considered acceptable if there is evidence that the chilling process has begun, such as arrival on ice.

The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

Samples were prepared in accordance with the State of Hawai'i Department of Health Office of Hazard Evaluation and Emergency Response's Technical Guidance Manual for the Implementation of the Hawai`i State Contingency Plan 2009 edition Laboratory Preparation of Multi-Increment Samples.

SOLID, 8081A, Pesticides

Sample(s): 1, 2, 3, 4
The laboratory control sample (LCS) associated with this extraction batch has recoveries for all analytes below the established control limits. The LCS leaked at KD (see NCM 07-0130513). Samples were re-extracted outside of hold time so both sets of data are reported.
The percent difference values for several analytes are above the method acceptance limits in the continuing calibration standard, analyzed November 10, 2011 at 21:01, indicating a high bias. This standard was analyzed after the associated samples. As the associated samples are non-detect and there is a potential for a high bias, there is no adverse impact on the data quality.
The percent difference values for several analytes are above the method acceptance limits in the continuing calibration standard, analyzed November 8, 2011 at 00:26, indicating a high bias. This standard was analyzed after the associated samples. The samples were re-extracted (RXd), and matrix interference was still observed. The samples were analyzed at a larger dilution, which still showed matrix influence, but was not enough to effect the closing CCV of the RXd samples.
The surrogate recoveries for Decachlorobiphenyl were high and outside criteria. However, the surrogate recoveries in the associated method blank and laboratory control sample (LCS) were within established control limits. The results may be biased high. The matrix effect was confirmed by visible chromatographic interferences.

SOLID, 8290, Dioxins/Furans, HRGC/HRMS

Sample(s): 1, 2, 3, 4
The LCS associated with this extraction batch exhibited elevated instrument noise for 2,3,7,8 TCDF requiring the detection limit to be raised appropriately. This analyte was flagged with the "H" qualifier.
Sample(s): 2
The result for 2, 3, 7, 8-TCDF is reported from the confirmation analysis that occurred on November 2, 2011.
Sample(s): 2
The concentration of OCDD in the sample exceeded the upper quantitation level of the initial calibration curve, but the peak did not saturate the instrument detector. Historical data indicates that for the isotope dilution method, dilution and re-analysis will not produce significantly different results from those reported with the 'E" qualifier.
The above sample exhibited elevated noise or matrix interference for OCDD requiring the detection limit to be raised appropriately.

Job ID: HUJ0059 (Continued)

Laboratory: TestAmerica Honolulu (Continued)

This analyte was flagged with the "G" qualifier.

Sample Summary

Client: Department of Health, HEER Office
Project/Site: Kohala PMA 2

TestAmerica Job ID: HUJ0059

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
HUJ0059-01	KSPMA2-DU-1	Solid/Soil	10/12/11 13:30	10/13/11 11:55
HUJ0059-02	KSPMA2-DU-2	Solid/Soil	10/12/11 14:00	10/13/11 11:55
HUJ0059-03	KSPMA2-DU-3	Solid/Soil	10/12/11 14:45	10/13/11 11:55

Detection Summary

Client: Department of Health, HEER Office
Project/Site: Kohala PMA 2

TestAmerica Job ID: HUJ0059

Client Sample ID: KSPMA2-DU-1 — Lab Sample ID: HUJ0059-01

Analyte	Result	Qualifier	ML	EDL	TEF	TEQ	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	28		0.98	0.49	1	28	pg/g	0.98		8290	Total
1,2,3,7,8-PeCDD	8.3		4.9	0.90	0.5	4.2	pg/g	0.98		8290	Total
1,2,3,4,7,8-HxCDD	14		4.9	1.4	0.1	1.4	pg/g	0.98		8290	Total
1,2,3,6,7,8-HxCDD	140		4.9	1.2	0.1	14	pg/g	0.98		8290	Total
1,2,3,7,8,9-HxCDD	42		4.9	1.1	0.1	4.2	pg/g	0.98		8290	Total
1,2,3,4,6,7,8-HpCDD	4600	D	49	29	0.01	46	pg/g	0.98		8290	Total
OCDD	37000	D	98	44	0.001	37	pg/g	0.98		8290	Total
2,3,7,8-TCDF	1.9	CON	0.98	0.19	0.1	0.19	pg/g	0.98		8290	Total
1,2,3,4,7,8-HxCDF	36		4.9	1.6	0.1	3.6	pg/g	0.98		8290	Total
1,2,3,6,7,8-HxCDF	18		4.9	1.4	0.1	1.8	pg/g	0.98		8290	Total
2,3,4,6,7,8-HxCDF	16		4.9	1.6	0.1	1.6	pg/g	0.98		8290	Total
1,2,3,4,6,7,8-HpCDF	1200		4.9	1.5	0.01	12	pg/g	0.98		8290	Total
1,2,3,4,7,8,9-HpCDF	63		4.9	1.8	0.01	0.63	pg/g	0.98		8290	Total
OCDF	2700	D	98	8.8	0.001	2.7	pg/g	0.98		8290	Total

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
delta-BHC	0.58	J	** 3.0	** 0.28	ug/kg	1.77	☼	8081A	Total
gamma-Chlordane	2.1	J	** 3.0	** 0.094	ug/kg	1.77	☼	8081A	Total
gamma-Chlordane	2.4	J B	** 18	** 0.55	ug/kg	10.3	☼	8081A	Total
alpha-Chlordane	2.4	J PG	** 3.0	** 0.35	ug/kg	1.77	☼	8081A	Total
alpha-Chlordane	2.6	J PG	** 18	** 2.1	ug/kg	10.3	☼	8081A	Total
Dieldrin	3.8	J PG	** 6.0	** 0.16	ug/kg	1.77	☼	8081A	Total
4,4'-DDT	1.8	J	** 6.0	** 0.71	ug/kg	1.77	☼	8081A	Total
Endrin aldehyde	4.1	J PG	** 6.0	** 0.19	ug/kg	1.77	☼	8081A	Total
Endrin aldehyde	4.2	J B PG	** 35	** 1.1	ug/kg	10.3	☼	8081A	Total
Methoxychlor	5.8	J PG	** 30	** 2.3	ug/kg	1.77	☼	8081A	Total
Endrin ketone	9.1	PG	** 6.0	** 0.60	ug/kg	1.77	☼	8081A	Total
Arsenic	32		5.8	0.62	mg/Kg	10		6010B	Total/NA
Barium	86		0.97	0.19	mg/Kg	10		6010B	Total/NA
Chromium	34		2.5	0.76	mg/Kg	10		6010B	Total/NA
Lead	9.6		2.9	0.29	mg/Kg	10		6010B	Total/NA
Selenium	3.4	J	9.7	0.39	mg/Kg	10		6010B	Total/NA
Antimony	3.0	J	5.8	0.37	mg/Kg	10		6010B	Total/NA
Sodium	340		190	29	mg/Kg	10		6010B	Total/NA
Potassium	580		320	31	mg/Kg	10		6010B	Total/NA
Beryllium	0.42	J	0.49	0.14	mg/Kg	10		6010B	Total/NA
Calcium	11000	B	110	10	mg/Kg	10		6010B	Total/NA
Iron	29000		190	70	mg/Kg	100		6010B	Total/NA
Nickel	9.6		1.9	0.25	mg/Kg	10		6010B	Total/NA
Vanadium	59		1.9	0.58	mg/Kg	10		6010B	Total/NA
Magnesium	6800		110	6.2	mg/Kg	10		6010B	Total/NA
Copper	3.2		1.9	1.4	mg/Kg	10		6010B	Total/NA
Aluminum	32000		970	170	mg/Kg	100		6010B	Total/NA
Zinc	36		3.9	1.0	mg/Kg	10		6010B	Total/NA
Tin	1.7	J	9.7	0.52	mg/Kg	10		6010B	Total/NA
Manganese	570	B	1.9	0.17	mg/Kg	10		6010B	Total/NA
Cobalt	6.2		0.97	0.49	mg/Kg	10		6010B	Total/NA
Mercury	0.27		0.018	0.0057	mg/Kg	10		7471A	Total/NA

Client Sample ID: KSPMA2-DU-2 — Lab Sample ID: HUJ0059-02

Analyte	Result	Qualifier	ML	EDL	TEF	TEQ	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	9.1		4.9	3.4	1	9.1	pg/g	4.94		8290	Total
1,2,3,6,7,8-HxCDD	46		25	3.1	0.1	4.6	pg/g	4.94		8290	Total

Client Sample ID: KSPMA2-DU-2 (Continued) — Lab Sample ID: HUJ0059-02

Analyte	Result	Qualifier	ML	EDL	TEF	TEQ	Unit	Dil Fac	D	Method	Prep Type
1,2,3,4,6,7,8-HpCDD	2100		25	13	0.01	21	pg/g	4.94		8290	Total
OCDD	18000		49	17	0.001	18	pg/g	4.94		8290	Total
1,2,3,4,6,7,8-HpCDF	490		25	4.8	0.01	4.9	pg/g	4.94		8290	Total
OCDF	1500		49	3.6	0.001	1.5	pg/g	4.94		8290	Total

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Heptachlor	0.46	J	** 3.4	** 0.38	ug/kg	2	☼	8081A	Total
gamma-Chlordane	2.2	J	** 3.4	** 0.11	ug/kg	2	☼	8081A	Total
gamma-Chlordane	2.2	J B	** 17	** 0.54	ug/kg	10.28	☼	8081A	Total
alpha-Chlordane	2.9	J PG	** 3.4	** 0.40	ug/kg	2	☼	8081A	Total
alpha-Chlordane	2.3	J PG	** 17	** 2.1	ug/kg	10.28	☼	8081A	Total
Endrin aldehyde	9.4	PG	** 6.8	** 0.22	ug/kg	2	☼	8081A	Total
Endrin aldehyde	6.9	J B PG	** 35	** 1.1	ug/kg	10.28	☼	8081A	Total
Methoxychlor	4.8	J PG	** 34	** 2.6	ug/kg	2	☼	8081A	Total
Arsenic	11		5.5	0.59	mg/Kg	10		6010B	Total/NA
Barium	56		0.92	0.18	mg/Kg	10		6010B	Total/NA
Cadmium	0.65	J	0.92	0.37	mg/Kg	10		6010B	Total/NA
Chromium	52		2.4	0.72	mg/Kg	10		6010B	Total/NA
Lead	9.1		2.8	0.28	mg/Kg	10		6010B	Total/NA
Selenium	5.3	J	9.2	0.37	mg/Kg	10		6010B	Total/NA
Antimony	2.6	J	5.5	0.35	mg/Kg	10		6010B	Total/NA
Sodium	420		180	27	mg/Kg	10		6010B	Total/NA
Potassium	810		300	29	mg/Kg	10		6010B	Total/NA
Calcium	12000	B	100	9.5	mg/Kg	10		6010B	Total/NA
Molybdenum	0.91	J	1.8	0.55	mg/Kg	10		6010B	Total/NA
Iron	53000		180	67	mg/Kg	100		6010B	Total/NA
Nickel	20		1.8	0.24	mg/Kg	10		6010B	Total/NA
Vanadium	130		1.8	0.55	mg/Kg	10		6010B	Total/NA
Magnesium	3800		100	5.9	mg/Kg	10		6010B	Total/NA
Aluminum	34000		920	160	mg/Kg	100		6010B	Total/NA
Zinc	33		3.7	0.98	mg/Kg	10		6010B	Total/NA
Tin	3.1	J	9.2	0.50	mg/Kg	10		6010B	Total/NA
Manganese	590	B	1.8	0.17	mg/Kg	10		6010B	Total/NA
Cobalt	7.9		0.92	0.46	mg/Kg	10		6010B	Total/NA
Mercury	0.39		0.020	0.0062	mg/Kg	10		7471A	Total/NA

Client Sample ID: KSPMA2-DU-3 — Lab Sample ID: HUJ0059-03

Analyte	Result	Qualifier	ML	EDL	TEF	TEQ	Unit	Dil Fac	D	Method	Prep Type
1,2,3,6,7,8-HxCDD	580		250	30	0.1	58	pg/g	49.6		8290	Total
1,2,3,4,6,7,8-HpCDD	15000		250	92	0.01	150	pg/g	49.6		8290	Total
OCDD	130000		500	180	0.001	130	pg/g	49.6		8290	Total
1,2,3,4,6,7,8-HpCDF	3700		250	49	0.01	37	pg/g	49.6		8290	Total
OCDF	12000		500	29	0.001	12	pg/g	49.6		8290	Total

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
alpha-BHC	6.6	J PG G	** 18	** 2.3	ug/kg	10.3	☼	8081A	Total
Heptachlor	1.7	J PG	** 3.3	** 0.37	ug/kg	1.93	☼	8081A	Total
Aldrin	3.3	PG	** 3.3	** 0.41	ug/kg	1.93	☼	8081A	Total
beta-BHC	22	PG	** 3.3	** 0.64	ug/kg	1.93	☼	8081A	Total
delta-BHC	8.8		** 3.3	** 0.31	ug/kg	1.93	☼	8081A	Total
delta-BHC	6.4	J	** 18	** 1.6	ug/kg	10.3	☼	8081A	Total
gamma-Chlordane	2.5	J	** 3.3	** 0.10	ug/kg	1.93	☼	8081A	Total
gamma-Chlordane	3.1	J B	** 18	** 0.55	ug/kg	10.3	☼	8081A	Total
alpha-Chlordane	4.2	PG	** 3.3	** 0.39	ug/kg	1.93	☼	8081A	Total

Detection Summary

Client: Department of Health, HEER Office
Project/Site: Kohala PMA 2

TestAmerica Job ID: HUJ0059

Client Sample ID: KSPMA2-DU-3 (Continued)

Lab Sample ID: HUJ0059-03

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
alpha-Chlordane	5.9	J PG	** 18	** 2.1	ug/kg	10.3	☼	8081A	Total
4,4'-DDT	1.0	J	** 6.6	** 0.77	ug/kg	1.93	☼	8081A	Total
Endrin aldehyde	1.6	J B PG	** 35	** 1.1	ug/kg	10.3	☼	8081A	Total
Arsenic	35		5.1	0.54	mg/Kg	10		6010B	Total/NA
Barium	110		0.85	0.17	mg/Kg	10		6010B	Total/NA
Cadmium	0.80	J	0.85	0.34	mg/Kg	10		6010B	Total/NA
Chromium	77		2.2	0.66	mg/Kg	10		6010B	Total/NA
Lead	17		2.6	0.26	mg/Kg	10		6010B	Total/NA
Selenium	9.0		8.5	0.34	mg/Kg	10		6010B	Total/NA
Antimony	2.3	J	5.1	0.32	mg/Kg	10		6010B	Total/NA
Sodium	28	J	170	25	mg/Kg	10		6010B	Total/NA
Potassium	790		280	27	mg/Kg	10		6010B	Total/NA
Calcium	3100	B	94	8.8	mg/Kg	10		6010B	Total/NA
Molybdenum	1.1	J	1.7	0.51	mg/Kg	10		6010B	Total/NA
Iron	86000		170	62	mg/Kg	100		6010B	Total/NA
Nickel	25		1.7	0.22	mg/Kg	10		6010B	Total/NA
Vanadium	180		1.7	0.51	mg/Kg	10		6010B	Total/NA
Magnesium	2800		94	5.4	mg/Kg	10		6010B	Total/NA
Copper	14		1.7	1.2	mg/Kg	10		6010B	Total/NA
Aluminum	43000		850	150	mg/Kg	100		6010B	Total/NA
Zinc	67		3.4	0.90	mg/Kg	10		6010B	Total/NA
Tin	3.8	J	8.5	0.46	mg/Kg	10		6010B	Total/NA
Manganese	880	B	1.7	0.15	mg/Kg	10		6010B	Total/NA
Cobalt	13		0.85	0.43	mg/Kg	10		6010B	Total/NA
Mercury	0.62		0.018	0.0056	mg/Kg	10		7471A	Total/NA

Client Sample Results

Client: Department of Health, HEER Office
Project/Site: Kohala PMA 2

TestAmerica Job ID: HUJ0059

Client Sample ID: KSPMA2-DU-1

Date Collected: 10/12/11 13:30
Date Received: 10/13/11 11:55

Lab Sample ID: HUJ0059-01

Matrix: Solid/Soil

Method: 8081A - Pesticides (8081A)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	ND	G	** 3.0	** 0.39	ug/kg	☼	10/21/11 16:00	11/07/11 20:07	1.77
alpha-BHC	ND	G	** 18	** 2.3	ug/kg	☼	11/03/11 11:00	11/10/11 11:49	10.3
gamma-BHC (Lindane)	ND		** 3.0	** 0.30	ug/kg	☼	10/21/11 16:00	11/07/11 20:07	1.77
gamma-BHC (Lindane)	ND		** 18	** 1.8	ug/kg	☼	11/03/11 11:00	11/10/11 11:49	10.3
Heptachlor	ND		** 3.0	** 0.34	ug/kg	☼	10/21/11 16:00	11/07/11 20:07	1.77
Heptachlor	ND		** 18	** 2.0	ug/kg	☼	11/03/11 11:00	11/10/11 11:49	10.3
Aldrin	ND		** 3.0	** 0.37	ug/kg	☼	10/21/11 16:00	11/07/11 20:07	1.77
Aldrin	ND		** 18	** 2.2	ug/kg	☼	11/03/11 11:00	11/10/11 11:49	10.3
beta-BHC	ND		** 3.0	** 0.58	ug/kg	☼	10/21/11 16:00	11/07/11 20:07	1.77
beta-BHC	ND		** 18	** 3.4	ug/kg	☼	11/03/11 11:00	11/10/11 11:49	10.3
delta-BHC	**0.58**	**J**	** 3.0	** 0.28	ug/kg	☼	10/21/11 16:00	11/07/11 20:07	1.77
delta-BHC	ND		** 18	** 1.6	ug/kg	☼	11/03/11 11:00	11/10/11 11:49	10.3
Heptachlor epoxide	ND		** 3.0	** 0.21	ug/kg	☼	10/21/11 16:00	11/07/11 20:07	1.77
Heptachlor epoxide	ND		** 18	** 1.2	ug/kg	☼	11/03/11 11:00	11/10/11 11:49	10.3
Endosulfan I	ND		** 3.0	** 0.092	ug/kg	☼	10/21/11 16:00	11/07/11 20:07	1.77
Endosulfan I	ND		** 18	** 0.54	ug/kg	☼	11/03/11 11:00	11/10/11 11:49	10.3
gamma-Chlordane	**2.1**	**J**	** 3.0	** 0.094	ug/kg	☼	10/21/11 16:00	11/07/11 20:07	1.77
gamma-Chlordane	**2.4**	**J B**	** 18	** 0.55	ug/kg	☼	11/03/11 11:00	11/10/11 11:49	10.3
alpha-Chlordane	**2.4**	**J PG**	** 3.0	** 0.35	ug/kg	☼	10/21/11 16:00	11/07/11 20:07	1.77
alpha-Chlordane	**2.6**	**J PG**	** 18	** 2.1	ug/kg	☼	11/03/11 11:00	11/10/11 11:49	10.3
4,4'-DDE	ND		** 6.0	** 0.39	ug/kg	☼	10/21/11 16:00	11/07/11 20:07	1.77
4,4'-DDE	ND		** 35	** 2.3	ug/kg	☼	11/03/11 11:00	11/10/11 11:49	10.3
Dieldrin	**3.8**	**J PG**	** 6.0	** 0.16	ug/kg	☼	10/21/11 16:00	11/07/11 20:07	1.77
Dieldrin	ND		** 35	** 0.94	ug/kg	☼	11/03/11 11:00	11/10/11 11:49	10.3
Endrin	ND		** 6.0	** 0.19	ug/kg	☼	10/21/11 16:00	11/07/11 20:07	1.77
Endrin	ND		** 35	** 1.1	ug/kg	☼	11/03/11 11:00	11/10/11 11:49	10.3
4,4'-DDD	ND		** 6.0	** 0.46	ug/kg	☼	10/21/11 16:00	11/07/11 20:07	1.77
4,4'-DDD	ND		** 35	** 2.7	ug/kg	☼	11/03/11 11:00	11/10/11 11:49	10.3
Endosulfan II	ND		** 6.0	** 0.18	ug/kg	☼	10/21/11 16:00	11/07/11 20:07	1.77
Endosulfan II	ND		** 35	** 1.0	ug/kg	☼	11/03/11 11:00	11/10/11 11:49	10.3
4,4'-DDT	**1.8**	**J**	** 6.0	** 0.71	ug/kg	☼	10/21/11 16:00	11/07/11 20:07	1.77
4,4'-DDT	ND		** 35	** 4.1	ug/kg	☼	11/03/11 11:00	11/10/11 11:49	10.3
Endrin aldehyde	**4.1**	**J PG**	** 6.0	** 0.19	ug/kg	☼	10/21/11 16:00	11/07/11 20:07	1.77
Endrin aldehyde	**4.2**	**J B PG**	** 35	** 1.1	ug/kg	☼	11/03/11 11:00	11/10/11 11:49	10.3
Methoxychlor	**5.8**	**J PG**	** 30	** 2.3	ug/kg	☼	10/21/11 16:00	11/07/11 20:07	1.77
Methoxychlor	ND		** 180	** 13	ug/kg	☼	11/03/11 11:00	11/10/11 11:49	10.3
Endosulfan sulfate	ND		** 6.0	** 0.16	ug/kg	☼	10/21/11 16:00	11/07/11 20:07	1.77
Endosulfan sulfate	ND		** 35	** 0.95	ug/kg	☼	11/03/11 11:00	11/10/11 11:49	10.3
Endrin ketone	**9.1**	**PG**	** 6.0	** 0.60	ug/kg	☼	10/21/11 16:00	11/07/11 20:07	1.77
Endrin ketone	ND		** 35	** 3.5	ug/kg	☼	11/03/11 11:00	11/10/11 11:49	10.3
Toxaphene	ND		** 120	** 35	ug/kg	☼	10/21/11 16:00	11/07/11 20:07	1.77
Toxaphene	ND		** 690	** 210	ug/kg	☼	11/03/11 11:00	11/10/11 11:49	10.3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*102*		*49 - 119*	*10/21/11 16:00*	*11/07/11 20:07*	*1.77*
Decachlorobiphenyl	*0.0*	*SRD **	*49 - 119*	*11/03/11 11:00*	*11/10/11 11:49*	*10.3*
Tetrachloro-m-xylene	*81*		*58 - 111*	*10/21/11 16:00*	*11/07/11 20:07*	*1.77*
Tetrachloro-m-xylene	*0.0*	*SRD **	*58 - 111*	*11/03/11 11:00*	*11/10/11 11:49*	*10.3*

Client Sample Results

Client: Department of Health, HEER Office
Project/Site: Kohala PMA 2

TestAmerica Job ID: HUJ0059

Client Sample ID: KSPMA2-DU-1

Date Collected: 10/12/11 13:30
Date Received: 10/13/11 11:55

Lab Sample ID: HUJ0059-01

Matrix: Solid/Soil

Method: 8290 - Dioxins/Furans, HRGC/HRMS (8290)

Analyte	Result	Qualifier	ML	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	28		0.98	0.49	1	28	pg/g		10/26/11 17:00	11/05/11 00:47	0.98
1,2,3,7,8-PeCDD	8.3		4.9	0.90	0.5	4.2	pg/g		10/26/11 17:00	11/05/11 00:47	0.98
1,2,3,4,7,8-HxCDD	14		4.9	1.4	0.1	1.4	pg/g		10/26/11 17:00	11/05/11 00:47	0.98
1,2,3,6,7,8-HxCDD	140		4.9	1.2	0.1	14	pg/g		10/26/11 17:00	11/05/11 00:47	0.98
1,2,3,7,8,9-HxCDD	42		4.9	1.1	0.1	4.2	pg/g		10/26/11 17:00	11/05/11 00:47	0.98
1,2,3,4,6,7,8-HpCDD	4600	D	49	29	0.01	46	pg/g		10/26/11 17:00	11/05/11 00:47	0.98
OCDD	37000	D	98	44	0.001	37	pg/g		10/26/11 17:00	11/05/11 00:47	0.98
2,3,7,8-TCDF	1.9	CON	0.98	0.19	0.1	0.19	pg/g		10/26/11 17:00	11/05/11 00:47	0.98
1,2,3,7,8-PeCDF	ND		4.9	1.5	0.05		pg/g		10/26/11 17:00	11/05/11 00:47	0.98
2,3,4,7,8-PeCDF	ND		4.9	1.5	0.5		pg/g		10/26/11 17:00	11/05/11 00:47	0.98
1,2,3,4,7,8-HxCDF	36		4.9	1.6	0.1	3.6	pg/g		10/26/11 17:00	11/05/11 00:47	0.98
1,2,3,6,7,8-HxCDF	18		4.9	1.4	0.1	1.8	pg/g		10/26/11 17:00	11/05/11 00:47	0.98
2,3,4,6,7,8-HxCDF	16		4.9	1.6	0.1	1.6	pg/g		10/26/11 17:00	11/05/11 00:47	0.98
1,2,3,7,8,9-HxCDF	ND		4.9	1.7	0.1		pg/g		10/26/11 17:00	11/05/11 00:47	0.98
1,2,3,4,6,7,8-HpCDF	1200		4.9	1.5	0.01	12	pg/g		10/26/11 17:00	11/05/11 00:47	0.98
1,2,3,4,7,8,9-HpCDF	63		4.9	1.8	0.01	0.63	pg/g		10/26/11 17:00	11/05/11 00:47	0.98
OCDF	2700	D	98	8.8	0.001	2.7	pg/g		10/26/11 17:00	11/05/11 00:47	0.98
Total TEQ (EPA 1989)						160					

Internal Standard	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*97*		*40 - 135*	*10/26/11 17:00*	*11/05/11 00:47*	*0.98*
13C-1,2,3,7,8-PeCDD	*97*		*40 - 135*	*10/26/11 17:00*	*11/05/11 00:47*	*0.98*
13C-1,2,3,6,7,8-HxCDD	*111*		*40 - 135*	*10/26/11 17:00*	*11/05/11 00:47*	*0.98*
13C-1,2,3,4,6,7,8-HpCDD	*108*		*40 - 135*	*10/26/11 17:00*	*11/05/11 00:47*	*0.98*
13C-OCDD	*184*	*	*40 - 135*	*10/26/11 17:00*	*11/05/11 00:47*	*0.98*
13C-2,3,7,8-TCDF	*85*		*40 - 135*	*10/26/11 17:00*	*11/05/11 00:47*	*0.98*
13C-1,2,3,7,8-PeCDF	*96*		*40 - 135*	*10/26/11 17:00*	*11/05/11 00:47*	*0.98*
13C-1,2,3,4,7,8-HxCDF	*99*		*40 - 135*	*10/26/11 17:00*	*11/05/11 00:47*	*0.98*
13C-1,2,3,4,6,7,8-HpCDF	*117*		*40 - 135*	*10/26/11 17:00*	*11/05/11 00:47*	*0.98*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	32		5.8	0.62	mg/Kg		10/21/11 09:38	10/21/11 14:34	10
Barium	86		0.97	0.19	mg/Kg		10/21/11 09:38	10/21/11 14:34	10
Cadmium	ND		0.97	0.39	mg/Kg		10/21/11 09:38	10/21/11 14:34	10
Chromium	34		2.5	0.76	mg/Kg		10/21/11 09:38	10/21/11 14:34	10
Lead	9.6		2.9	0.29	mg/Kg		10/21/11 09:38	10/21/11 14:34	10
Selenium	3.4	J	9.7	0.39	mg/Kg		10/21/11 09:38	10/21/11 14:34	10
Silver	ND		1.9	1.1	mg/Kg		10/21/11 09:38	10/21/11 14:34	10
Antimony	3.0	J	5.8	0.37	mg/Kg		10/21/11 09:38	10/21/11 14:34	10
Sodium	340		190	29	mg/Kg		10/21/11 09:38	10/21/11 14:34	10
Potassium	580		320	31	mg/Kg		10/21/11 09:38	10/21/11 14:34	10
Beryllium	0.42	J	0.49	0.14	mg/Kg		10/21/11 09:38	10/21/11 14:34	10
Thallium	ND		9.7	0.82	mg/Kg		10/21/11 09:38	10/21/11 14:34	10
Calcium	11000	B	110	10	mg/Kg		10/21/11 09:38	10/21/11 14:34	10
Molybdenum	ND		1.9	0.58	mg/Kg		10/21/11 09:38	10/21/11 14:34	10
Iron	29000		190	70	mg/Kg		10/21/11 09:38	10/21/11 14:40	100
Nickel	9.6		1.9	0.25	mg/Kg		10/21/11 09:38	10/21/11 14:34	10
Vanadium	59		1.9	0.58	mg/Kg		10/21/11 09:38	10/21/11 14:34	10
Magnesium	6800		110	6.2	mg/Kg		10/21/11 09:38	10/21/11 14:34	10

Client Sample ID: KSPMA2-DU-1

Lab Sample ID: HUJ0059-01

Date Collected: 10/12/11 13:30

Matrix: Solid/Soil

Date Received: 10/13/11 11:55

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	3.2		1.9	1.4	mg/Kg		10/21/11 09:38	10/21/11 14:34	10
Aluminum	32000		970	170	mg/Kg		10/21/11 09:38	10/21/11 14:40	100
Zinc	36		3.9	1.0	mg/Kg		10/21/11 09:38	10/21/11 14:34	10
Tin	1.7	J	9.7	0.52	mg/Kg		10/21/11 09:38	10/21/11 14:34	10
Manganese	570	B	1.9	0.17	mg/Kg		10/21/11 09:38	10/21/11 14:34	10
Cobalt	6.2		0.97	0.49	mg/Kg		10/21/11 09:38	10/21/11 14:34	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.27		0.018	0.0057	mg/Kg		10/21/11 09:22	10/21/11 11:17	10

Client Sample ID: KSPMA2-DU-2

Lab Sample ID: HUJ0059-02

Date Collected: 10/12/11 14:00

Matrix: Solid/Soil

Date Received: 10/13/11 11:55

Method: 8081A - Pesticides (8081A)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	ND	G	** 3.4	** 0.44	ug/kg	☼	10/21/11 16:00	11/07/11 20:41	2
alpha-BHC	ND	G	** 17	** 2.3	ug/kg	☼	11/03/11 11:00	11/10/11 12:19	10.28
gamma-BHC (Lindane)	ND		** 3.4	** 0.34	ug/kg	☼	10/21/11 16:00	11/07/11 20:41	2
gamma-BHC (Lindane)	ND		** 17	** 1.7	ug/kg	☼	11/03/11 11:00	11/10/11 12:19	10.28
Heptachlor	0.46	J	** 3.4	** 0.38	ug/kg	☼	10/21/11 16:00	11/07/11 20:41	2
Heptachlor	ND		** 17	** 2.0	ug/kg	☼	11/03/11 11:00	11/10/11 12:19	10.28
Aldrin	ND		** 3.4	** 0.42	ug/kg	☼	10/21/11 16:00	11/07/11 20:41	2
Aldrin	ND		** 17	** 2.2	ug/kg	☼	11/03/11 11:00	11/10/11 12:19	10.28
beta-BHC	ND		** 3.4	** 0.66	ug/kg	☼	10/21/11 16:00	11/07/11 20:41	2
beta-BHC	ND		** 17	** 3.4	ug/kg	☼	11/03/11 11:00	11/10/11 12:19	10.28
delta-BHC	ND		** 3.4	** 0.32	ug/kg	☼	10/21/11 16:00	11/07/11 20:41	2
delta-BHC	ND		** 17	** 1.6	ug/kg	☼	11/03/11 11:00	11/10/11 12:19	10.28
Heptachlor epoxide	ND		** 3.4	** 0.24	ug/kg	☼	10/21/11 16:00	11/07/11 20:41	2
Heptachlor epoxide	ND		** 17	** 1.2	ug/kg	☼	11/03/11 11:00	11/10/11 12:19	10.28
Endosulfan I	ND		** 3.4	** 0.10	ug/kg	☼	10/21/11 16:00	11/07/11 20:41	2
Endosulfan I	ND		** 17	** 0.53	ug/kg	☼	11/03/11 11:00	11/10/11 12:19	10.28
gamma-Chlordane	2.2	J	** 3.4	** 0.11	ug/kg	☼	10/21/11 16:00	11/07/11 20:41	2
gamma-Chlordane	2.2	J B	** 17	** 0.54	ug/kg	☼	11/03/11 11:00	11/10/11 12:19	10.28
alpha-Chlordane	2.9	J PG	** 3.4	** 0.40	ug/kg	☼	10/21/11 16:00	11/07/11 20:41	2
alpha-Chlordane	2.3	J PG	** 17	** 2.1	ug/kg	☼	11/03/11 11:00	11/10/11 12:19	10.28
4,4'-DDE	ND		** 6.8	** 0.44	ug/kg	☼	10/21/11 16:00	11/07/11 20:41	2
4,4'-DDE	ND		** 35	** 2.3	ug/kg	☼	11/03/11 11:00	11/10/11 12:19	10.28
Dieldrin	ND		** 6.8	** 0.18	ug/kg	☼	10/21/11 16:00	11/07/11 20:41	2
Dieldrin	ND		** 35	** 0.94	ug/kg	☼	11/03/11 11:00	11/10/11 12:19	10.28
Endrin	ND		** 6.8	** 0.22	ug/kg	☼	10/21/11 16:00	11/07/11 20:41	2
Endrin	ND		** 35	** 1.1	ug/kg	☼	11/03/11 11:00	11/10/11 12:19	10.28
4,4'-DDD	ND		** 6.8	** 0.52	ug/kg	☼	10/21/11 16:00	11/07/11 20:41	2
4,4'-DDD	ND		** 35	** 2.7	ug/kg	☼	11/03/11 11:00	11/10/11 12:19	10.28
Endosulfan II	ND		** 6.8	** 0.20	ug/kg	☼	10/21/11 16:00	11/07/11 20:41	2
Endosulfan II	ND		** 35	** 1.0	ug/kg	☼	11/03/11 11:00	11/10/11 12:19	10.28
4,4'-DDT	ND		** 6.8	** 0.80	ug/kg	☼	10/21/11 16:00	11/07/11 20:41	2
4,4'-DDT	ND		** 35	** 4.1	ug/kg	☼	11/03/11 11:00	11/10/11 12:19	10.28
Endrin aldehyde	9.4	PG	** 6.8	** 0.22	ug/kg	☼	10/21/11 16:00	11/07/11 20:41	2

Client: Department of Health, HEER Office
Project/Site: Kohala PMA 2

TestAmerica Job ID: HUJ0059

Client Sample ID: KSPMA2-DU-2

Date Collected: 10/12/11 14:00
Date Received: 10/13/11 11:55

Lab Sample ID: HUJ0059-02

Matrix: Solid/Soil

Method: 8081A - Pesticides (8081A) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin aldehyde	**6.9**	**J B PG**	** 35	** 1.1	ug/kg	☼	11/03/11 11:00	11/10/11 12:19	10.28
Methoxychlor	**4.8**	**J PG**	** 34	** 2.6	ug/kg	☼	10/21/11 16:00	11/07/11 20:41	2
Methoxychlor	ND		** 170	** 13	ug/kg	☼	11/03/11 11:00	11/10/11 12:19	10.28
Endosulfan sulfate	ND		** 6.8	** 0.18	ug/kg	☼	10/21/11 16:00	11/07/11 20:41	2
Endosulfan sulfate	ND		** 35	** 0.95	ug/kg	☼	11/03/11 11:00	11/10/11 12:19	10.28
Endrin ketone	ND		** 6.8	** 0.68	ug/kg	☼	10/21/11 16:00	11/07/11 20:41	2
Endrin ketone	ND		** 35	** 3.5	ug/kg	☼	11/03/11 11:00	11/10/11 12:19	10.28
Toxaphene	ND		** 130	** 40	ug/kg	☼	10/21/11 16:00	11/07/11 20:41	2
Toxaphene	ND		** 690	** 210	ug/kg	☼	11/03/11 11:00	11/10/11 12:19	10.28

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*110*		*49 - 119*	*10/21/11 16:00*	*11/07/11 20:41*	*2*
Decachlorobiphenyl	*0.0*	*SRD **	*49 - 119*	*11/03/11 11:00*	*11/10/11 12:19*	*10.28*
Tetrachloro-m-xylene	*86*		*58 - 111*	*10/21/11 16:00*	*11/07/11 20:41*	*2*
Tetrachloro-m-xylene	*0.0*	*SRD **	*58 - 111*	*11/03/11 11:00*	*11/10/11 12:19*	*10.28*

Method: 8290 - Dioxins/Furans, HRGC/HRMS (8290)

Analyte	Result	Qualifier	ML	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	**9.1**		4.9	3.4	1	9.1	pg/g		10/26/11 17:00	11/05/11 01:30	4.94
1,2,3,7,8-PeCDD	ND		25	4.0	0.5		pg/g		10/26/11 17:00	11/05/11 01:30	4.94
1,2,3,4,7,8-HxCDD	ND		25	3.6	0.1		pg/g		10/26/11 17:00	11/05/11 01:30	4.94
1,2,3,6,7,8-HxCDD	**46**		25	3.1	0.1	4.6	pg/g		10/26/11 17:00	11/05/11 01:30	4.94
1,2,3,7,8,9-HxCDD	ND		25	2.9	0.1		pg/g		10/26/11 17:00	11/05/11 01:30	4.94
1,2,3,4,6,7,8-HpCDD	**2100**		25	13	0.01	21	pg/g		10/26/11 17:00	11/05/11 01:30	4.94
OCDD	**18000**		49	17	0.001	18	pg/g		10/26/11 17:00	11/05/11 01:30	4.94
2,3,7,8-TCDF	ND		4.9	4.5	0.1		pg/g		10/26/11 17:00	11/05/11 01:30	4.94
1,2,3,7,8-PeCDF	ND		25	6.1	0.05		pg/g		10/26/11 17:00	11/05/11 01:30	4.94
2,3,4,7,8-PeCDF	ND		25	6.2	0.5		pg/g		10/26/11 17:00	11/05/11 01:30	4.94
1,2,3,4,7,8-HxCDF	ND		25	5.6	0.1		pg/g		10/26/11 17:00	11/05/11 01:30	4.94
1,2,3,6,7,8-HxCDF	ND		25	4.8	0.1		pg/g		10/26/11 17:00	11/05/11 01:30	4.94
2,3,4,6,7,8-HxCDF	ND		25	5.4	0.1		pg/g		10/26/11 17:00	11/05/11 01:30	4.94
1,2,3,7,8,9-HxCDF	ND		25	5.8	0.1		pg/g		10/26/11 17:00	11/05/11 01:30	4.94
1,2,3,4,6,7,8-HpCDF	**490**		25	4.8	0.01	4.9	pg/g		10/26/11 17:00	11/05/11 01:30	4.94
1,2,3,4,7,8,9-HpCDF	ND		25	5.9	0.01		pg/g		10/26/11 17:00	11/05/11 01:30	4.94
OCDF	**1500**		49	3.6	0.001	1.5	pg/g		10/26/11 17:00	11/05/11 01:30	4.94
Total TEQ	***(EPA 1989)***					**59**					

Internal Standard	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*104*		*40 - 135*	*10/26/11 17:00*	*11/05/11 01:30*	*4.94*
13C-1,2,3,7,8-PeCDD	*95*		*40 - 135*	*10/26/11 17:00*	*11/05/11 01:30*	*4.94*
13C-1,2,3,6,7,8-HxCDD	*107*		*40 - 135*	*10/26/11 17:00*	*11/05/11 01:30*	*4.94*
13C-1,2,3,4,6,7,8-HpCDD	*105*		*40 - 135*	*10/26/11 17:00*	*11/05/11 01:30*	*4.94*
13C-OCDD	*160*	***	*40 - 135*	*10/26/11 17:00*	*11/05/11 01:30*	*4.94*
13C-2,3,7,8-TCDF	*101*		*40 - 135*	*10/26/11 17:00*	*11/05/11 01:30*	*4.94*
13C-1,2,3,7,8-PeCDF	*91*		*40 - 135*	*10/26/11 17:00*	*11/05/11 01:30*	*4.94*
13C-1,2,3,4,7,8-HxCDF	*95*		*40 - 135*	*10/26/11 17:00*	*11/05/11 01:30*	*4.94*
13C-1,2,3,4,6,7,8-HpCDF	*114*		*40 - 135*	*10/26/11 17:00*	*11/05/11 01:30*	*4.94*

Client Sample ID: KSPMA2-DU-2

Lab Sample ID: HUJ0059-02

Date Collected: 10/12/11 14:00

Matrix: Solid/Soil

Date Received: 10/13/11 11:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11		5.5	0.59	mg/Kg		10/21/11 09:38	10/21/11 14:46	10
Barium	56		0.92	0.18	mg/Kg		10/21/11 09:38	10/21/11 14:46	10
Cadmium	0.65	J	0.92	0.37	mg/Kg		10/21/11 09:38	10/21/11 14:46	10
Chromium	52		2.4	0.72	mg/Kg		10/21/11 09:38	10/21/11 14:46	10
Lead	9.1		2.8	0.28	mg/Kg		10/21/11 09:38	10/21/11 14:46	10
Selenium	5.3	J	9.2	0.37	mg/Kg		10/21/11 09:38	10/21/11 14:46	10
Silver	ND		1.8	1.0	mg/Kg		10/21/11 09:38	10/21/11 14:46	10
Antimony	2.6	J	5.5	0.35	mg/Kg		10/21/11 09:38	10/21/11 14:46	10
Sodium	420		180	27	mg/Kg		10/21/11 09:38	10/21/11 14:46	10
Potassium	810		300	29	mg/Kg		10/21/11 09:38	10/21/11 14:46	10
Beryllium	ND		0.46	0.13	mg/Kg		10/21/11 09:38	10/21/11 14:46	10
Thallium	ND		9.2	0.77	mg/Kg		10/21/11 09:38	10/21/11 14:46	10
Calcium	12000	B	100	9.5	mg/Kg		10/21/11 09:38	10/21/11 14:46	10
Molybdenum	0.91	J	1.8	0.55	mg/Kg		10/21/11 09:38	10/21/11 14:46	10
Iron	53000		180	67	mg/Kg		10/21/11 09:38	10/21/11 14:52	100
Nickel	20		1.8	0.24	mg/Kg		10/21/11 09:38	10/21/11 14:46	10
Vanadium	130		1.8	0.55	mg/Kg		10/21/11 09:38	10/21/11 14:46	10
Magnesium	3800		100	5.9	mg/Kg		10/21/11 09:38	10/21/11 14:46	10
Copper	ND		1.8	1.3	mg/Kg		10/21/11 09:38	10/21/11 14:46	10
Aluminum	34000		920	160	mg/Kg		10/21/11 09:38	10/21/11 14:52	100
Zinc	33		3.7	0.98	mg/Kg		10/21/11 09:38	10/21/11 14:46	10
Tin	3.1	J	9.2	0.50	mg/Kg		10/21/11 09:38	10/21/11 14:46	10
Manganese	590	B	1.8	0.17	mg/Kg		10/21/11 09:38	10/21/11 14:46	10
Cobalt	7.9		0.92	0.46	mg/Kg		10/21/11 09:38	10/21/11 14:46	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.39		0.020	0.0062	mg/Kg		10/21/11 09:22	10/21/11 11:19	10

Client Sample ID: KSPMA2-DU-3

Lab Sample ID: HUJ0059-03

Date Collected: 10/12/11 14:45

Matrix: Solid/Soil

Date Received: 10/13/11 11:55

Method: 8081A - Pesticides (8081A)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	ND	G	** 3.3	** 0.42	ug/kg	☼	10/21/11 16:00	11/07/11 21:15	1.93
alpha-BHC	6.6	J PG G	** 18	** 2.3	ug/kg	☼	11/03/11 11:00	11/10/11 12:49	10.3
gamma-BHC (Lindane)	ND		** 3.3	** 0.33	ug/kg	☼	10/21/11 16:00	11/07/11 21:15	1.93
gamma-BHC (Lindane)	ND		** 18	** 1.8	ug/kg	☼	11/03/11 11:00	11/10/11 12:49	10.3
Heptachlor	1.7	J PG	** 3.3	** 0.37	ug/kg	☼	10/21/11 16:00	11/07/11 21:15	1.93
Heptachlor	ND		** 18	** 2.0	ug/kg	☼	11/03/11 11:00	11/10/11 12:49	10.3
Aldrin	3.3	PG	** 3.3	** 0.41	ug/kg	☼	10/21/11 16:00	11/07/11 21:15	1.93
Aldrin	ND		** 18	** 2.2	ug/kg	☼	11/03/11 11:00	11/10/11 12:49	10.3
beta-BHC	22	PG	** 3.3	** 0.64	ug/kg	☼	10/21/11 16:00	11/07/11 21:15	1.93
beta-BHC	ND		** 18	** 3.4	ug/kg	☼	11/03/11 11:00	11/10/11 12:49	10.3
delta-BHC	8.8		** 3.3	** 0.31	ug/kg	☼	10/21/11 16:00	11/07/11 21:15	1.93
delta-BHC	6.4	J	** 18	** 1.6	ug/kg	☼	11/03/11 11:00	11/10/11 12:49	10.3
Heptachlor epoxide	ND		** 3.3	** 0.23	ug/kg	☼	10/21/11 16:00	11/07/11 21:15	1.93
Heptachlor epoxide	ND		** 18	** 1.2	ug/kg	☼	11/03/11 11:00	11/10/11 12:49	10.3
Endosulfan I	ND		** 3.3	** 0.10	ug/kg	☼	10/21/11 16:00	11/07/11 21:15	1.93

Client: Department of Health, HEER Office
Project/Site: Kohala PMA 2

TestAmerica Job ID: HUJ0059

Client Sample ID: KSPMA2-DU-3
Date Collected: 10/12/11 14:45
Date Received: 10/13/11 11:55

Lab Sample ID: HUJ0059-03
Matrix: Solid/Soil

Method: 8081A - Pesticides (8081A) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan I	ND		** 18	** 0.54	ug/kg	☼	11/03/11 11:00	11/10/11 12:49	10.3
gamma-Chlordane	**2.5**	**J**	** 3.3	** 0.10	ug/kg	☼	10/21/11 16:00	11/07/11 21:15	1.93
gamma-Chlordane	**3.1**	**J B**	** 18	** 0.55	ug/kg	☼	11/03/11 11:00	11/10/11 12:49	10.3
alpha-Chlordane	**4.2**	**PG**	** 3.3	** 0.39	ug/kg	☼	10/21/11 16:00	11/07/11 21:15	1.93
alpha-Chlordane	**5.9**	**J PG**	** 18	** 2.1	ug/kg	☼	11/03/11 11:00	11/10/11 12:49	10.3
4,4'-DDE	ND		** 6.6	** 0.42	ug/kg	☼	10/21/11 16:00	11/07/11 21:15	1.93
4,4'-DDE	ND		** 35	** 2.3	ug/kg	☼	11/03/11 11:00	11/10/11 12:49	10.3
Dieldrin	ND		** 6.6	** 0.18	ug/kg	☼	10/21/11 16:00	11/07/11 21:15	1.93
Dieldrin	ND		** 35	** 0.94	ug/kg	☼	11/03/11 11:00	11/10/11 12:49	10.3
Endrin	ND		** 6.6	** 0.21	ug/kg	☼	10/21/11 16:00	11/07/11 21:15	1.93
Endrin	ND		** 35	** 1.1	ug/kg	☼	11/03/11 11:00	11/10/11 12:49	10.3
4,4'-DDD	ND		** 6.6	** 0.50	ug/kg	☼	10/21/11 16:00	11/07/11 21:15	1.93
4,4'-DDD	ND		** 35	** 2.7	ug/kg	☼	11/03/11 11:00	11/10/11 12:49	10.3
Endosulfan II	ND		** 6.6	** 0.19	ug/kg	☼	10/21/11 16:00	11/07/11 21:15	1.93
Endosulfan II	ND		** 35	** 1.0	ug/kg	☼	11/03/11 11:00	11/10/11 12:49	10.3
4,4'-DDT	**1.0**	**J**	** 6.6	** 0.77	ug/kg	☼	10/21/11 16:00	11/07/11 21:15	1.93
4,4'-DDT	ND		** 35	** 4.1	ug/kg	☼	11/03/11 11:00	11/10/11 12:49	10.3
Endrin aldehyde	ND		** 6.6	** 0.21	ug/kg	☼	10/21/11 16:00	11/07/11 21:15	1.93
Endrin aldehyde	**1.6**	**J B PG**	** 35	** 1.1	ug/kg	☼	11/03/11 11:00	11/10/11 12:49	10.3
Methoxychlor	ND		** 33	** 2.5	ug/kg	☼	10/21/11 16:00	11/07/11 21:15	1.93
Methoxychlor	ND		** 180	** 13	ug/kg	☼	11/03/11 11:00	11/10/11 12:49	10.3
Endosulfan sulfate	ND		** 6.6	** 0.18	ug/kg	☼	10/21/11 16:00	11/07/11 21:15	1.93
Endosulfan sulfate	ND		** 35	** 0.95	ug/kg	☼	11/03/11 11:00	11/10/11 12:49	10.3
Endrin ketone	ND		** 6.6	** 0.66	ug/kg	☼	10/21/11 16:00	11/07/11 21:15	1.93
Endrin ketone	ND		** 35	** 3.5	ug/kg	☼	11/03/11 11:00	11/10/11 12:49	10.3
Toxaphene	ND		** 130	** 39	ug/kg	☼	10/21/11 16:00	11/07/11 21:15	1.93
Toxaphene	ND		** 690	** 210	ug/kg	☼	11/03/11 11:00	11/10/11 12:49	10.3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*152*	*	*49 - 119*	*10/21/11 16:00*	*11/07/11 21:15*	*1.93*
Decachlorobiphenyl	*0.0*	*SRD **	*49 - 119*	*11/03/11 11:00*	*11/10/11 12:49*	*10.3*
Tetrachloro-m-xylene	*86*		*58 - 111*	*10/21/11 16:00*	*11/07/11 21:15*	*1.93*
Tetrachloro-m-xylene	*0.0*	*SRD **	*58 - 111*	*11/03/11 11:00*	*11/10/11 12:49*	*10.3*

Method: 8290 - Dioxins/Furans, HRGC/HRMS (8290)

Analyte	Result	Qualifier	ML	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		50	37	1		pg/g		10/26/11 17:00	11/05/11 02:12	49.6
1,2,3,7,8-PeCDD	ND		250	44	0.5		pg/g		10/26/11 17:00	11/05/11 02:12	49.6
1,2,3,4,7,8-HxCDD	ND		250	34	0.1		pg/g		10/26/11 17:00	11/05/11 02:12	49.6
1,2,3,6,7,8-HxCDD	**580**		250	30	0.1	58	pg/g		10/26/11 17:00	11/05/11 02:12	49.6
1,2,3,7,8,9-HxCDD	ND		250	27	0.1		pg/g		10/26/11 17:00	11/05/11 02:12	49.6
1,2,3,4,6,7,8-HpCDD	**15000**		250	92	0.01	150	pg/g		10/26/11 17:00	11/05/11 02:12	49.6
OCDD	**130000**		500	180	0.001	130	pg/g		10/26/11 17:00	11/05/11 02:12	49.6
2,3,7,8-TCDF	ND		50	8.5	0.1		pg/g		10/26/11 17:00	11/05/11 02:12	49.6
1,2,3,7,8-PeCDF	ND		250	62	0.05		pg/g		10/26/11 17:00	11/05/11 02:12	49.6
2,3,4,7,8-PeCDF	ND		250	64	0.5		pg/g		10/26/11 17:00	11/05/11 02:12	49.6
1,2,3,4,7,8-HxCDF	ND		250	62	0.1		pg/g		10/26/11 17:00	11/05/11 02:12	49.6
1,2,3,6,7,8-HxCDF	ND		250	53	0.1		pg/g		10/26/11 17:00	11/05/11 02:12	49.6
2,3,4,6,7,8-HxCDF	ND		250	59	0.1		pg/g		10/26/11 17:00	11/05/11 02:12	49.6
1,2,3,7,8,9-HxCDF	ND		250	64	0.1		pg/g		10/26/11 17:00	11/05/11 02:12	49.6

Client Sample Results

Client: Department of Health, HEER Office
Project/Site: Kohala PMA 2

TestAmerica Job ID: HUJ0059

Client Sample ID: KSPMA2-DU-3

Date Collected: 10/12/11 14:45
Date Received: 10/13/11 11:55

Lab Sample ID: HUJ0059-03

Matrix: Solid/Soil

Method: 8290 - Dioxins/Furans, HRGC/HRMS (8290) (Continued)

Analyte	Result	Qualifier	ML	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,6,7,8-HpCDF	3700		250	49	0.01	37	pg/g		10/26/11 17:00	11/05/11 02:12	49.6
1,2,3,4,7,8,9-HpCDF	ND		250	60	0.01		pg/g		10/26/11 17:00	11/05/11 02:12	49.6
OCDF	12000		500	29	0.001	12	pg/g		10/26/11 17:00	11/05/11 02:12	49.6
Total TEQ (EPA 1989)						**390**					

Internal Standard	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*93*		*40 - 135*	*10/26/11 17:00*	*11/05/11 02:12*	*49.6*
13C-1,2,3,7,8-PeCDD	*92*		*40 - 135*	*10/26/11 17:00*	*11/05/11 02:12*	*49.6*
13C-1,2,3,6,7,8-HxCDD	*110*		*40 - 135*	*10/26/11 17:00*	*11/05/11 02:12*	*49.6*
13C-1,2,3,4,6,7,8-HpCDD	*103*		*40 - 135*	*10/26/11 17:00*	*11/05/11 02:12*	*49.6*
13C-OCDD	*125*		*40 - 135*	*10/26/11 17:00*	*11/05/11 02:12*	*49.6*
13C-2,3,7,8-TCDF	*98*		*40 - 135*	*10/26/11 17:00*	*11/05/11 02:12*	*49.6*
13C-1,2,3,7,8-PeCDF	*91*		*40 - 135*	*10/26/11 17:00*	*11/05/11 02:12*	*49.6*
13C-1,2,3,4,7,8-HxCDF	*105*		*40 - 135*	*10/26/11 17:00*	*11/05/11 02:12*	*49.6*
13C-1,2,3,4,6,7,8-HpCDF	*113*		*40 - 135*	*10/26/11 17:00*	*11/05/11 02:12*	*49.6*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	35		5.1	0.54	mg/Kg		10/21/11 09:38	10/21/11 14:58	10
Barium	110		0.85	0.17	mg/Kg		10/21/11 09:38	10/21/11 14:58	10
Cadmium	0.80	J	0.85	0.34	mg/Kg		10/21/11 09:38	10/21/11 14:58	10
Chromium	77		2.2	0.66	mg/Kg		10/21/11 09:38	10/21/11 14:58	10
Lead	17		2.6	0.26	mg/Kg		10/21/11 09:38	10/21/11 14:58	10
Selenium	9.0		8.5	0.34	mg/Kg		10/21/11 09:38	10/21/11 14:58	10
Silver	ND		1.7	0.95	mg/Kg		10/21/11 09:38	10/21/11 14:58	10
Antimony	2.3	J	5.1	0.32	mg/Kg		10/21/11 09:38	10/21/11 14:58	10
Sodium	28	J	170	25	mg/Kg		10/21/11 09:38	10/21/11 14:58	10
Potassium	790		280	27	mg/Kg		10/21/11 09:38	10/21/11 14:58	10
Beryllium	ND		0.43	0.12	mg/Kg		10/21/11 09:38	10/21/11 14:58	10
Thallium	ND		8.5	0.71	mg/Kg		10/21/11 09:38	10/21/11 14:58	10
Calcium	3100	B	94	8.8	mg/Kg		10/21/11 09:38	10/21/11 14:58	10
Molybdenum	1.1	J	1.7	0.51	mg/Kg		10/21/11 09:38	10/21/11 14:58	10
Iron	86000		170	62	mg/Kg		10/21/11 09:38	10/21/11 15:04	100
Nickel	25		1.7	0.22	mg/Kg		10/21/11 09:38	10/21/11 14:58	10
Vanadium	180		1.7	0.51	mg/Kg		10/21/11 09:38	10/21/11 14:58	10
Magnesium	2800		94	5.4	mg/Kg		10/21/11 09:38	10/21/11 14:58	10
Copper	14		1.7	1.2	mg/Kg		10/21/11 09:38	10/21/11 14:58	10
Aluminum	43000		850	150	mg/Kg		10/21/11 09:38	10/21/11 15:04	100
Zinc	67		3.4	0.90	mg/Kg		10/21/11 09:38	10/21/11 14:58	10
Tin	3.8	J	8.5	0.46	mg/Kg		10/21/11 09:38	10/21/11 14:58	10
Manganese	880	B	1.7	0.15	mg/Kg		10/21/11 09:38	10/21/11 14:58	10
Cobalt	13		0.85	0.43	mg/Kg		10/21/11 09:38	10/21/11 14:58	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.62		0.018	0.0056	mg/Kg		10/21/11 09:22	10/21/11 11:21	10

Surrogate Summary

Client: Department of Health, HEER Office
Project/Site: Kohala PMA 2

TestAmerica Job ID: HUJ0059

Method: 8081A - Pesticides (8081A)

Matrix: Solid **Prep Type: Total**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB	TCX
Lab Sample ID	Client Sample ID	(49-119)	(58-111)
G1J140465001D	Matrix Spike Duplicate	101	91
G1J140465001D	Matrix Spike Duplicate	85	80
G1J140465001S	Matrix Spike	93	85
G1J140465001S	Matrix Spike	84	79
G1J210000137B	Method Blank	106	97
G1J210000137C	Lab Control Sample	49	45 *
G1J210000137C	Lab Control Sample	99	92
G1K030000086B	Method Blank	88	82
G1K030000086C	Lab Control Sample	88	82
G1K030000086C	Lab Control Sample	105	90

Surrogate Legend

DCB = Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8081A - Pesticides (8081A)

Matrix: Solid/Soil **Prep Type: Total**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB	TCX
Lab Sample ID	Client Sample ID	(49-119)	(58-111)
HUJ0059-01	KSPMA2-DU-1	102	81
HUJ0059-01	KSPMA2-DU-1	0.0 SRD *	0.0 SRD *
HUJ0059-02	KSPMA2-DU-2	110	86
HUJ0059-02	KSPMA2-DU-2	0.0 SRD *	0.0 SRD *
HUJ0059-03	KSPMA2-DU-3	152 *	86
HUJ0059-03	KSPMA2-DU-3	0.0 SRD *	0.0 SRD *

Surrogate Legend

DCB = Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Internal Standards Summary

Client: Department of Health, HEER Office
Project/Site: Kohala PMA 2

TestAmerica Job ID: HUJ0059

Method: 8290 - Dioxins/Furans, HRGC/HRMS (8290)

Matrix: Solid **Prep Type: Total**

		Percent Internal Standard Recovery (Acceptance Limits)							
		TCDD	PeCDD	HxCDD2	HpCDD	OCDD	TCDF	PeCDF1	HxCDF1
Lab Sample ID	Client Sample ID	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)
G1J260000155B	Method Blank	79	76	70	86	97	77	87	67
G1J260000155C	Lab Control Sample	96	97	111	97	98	99	94	102

		Percent Internal Standard Recovery (Acceptance Limits)
		HpCDF1
Lab Sample ID	Client Sample ID	(40-135)
G1J260000155B	Method Blank	78
G1J260000155C	Lab Control Sample	109

Internal Standard Legend

TCDD = 13C-2,3,7,8-TCDD
PeCDD = 13C-1,2,3,7,8-PeCDD
HxCDD2 = 13C-1,2,3,6,7,8-HxCDD
HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
OCDD = 13C-OCDD
TCDF = 13C-2,3,7,8-TCDF
PeCDF1 = 13C-1,2,3,7,8-PeCDF
HxCDF1 = 13C-1,2,3,4,7,8-HxCDF
HpCDF1 = 13C-1,2,3,4,6,7,8-HpCDF

Method: 8290 - Dioxins/Furans, HRGC/HRMS (8290)

Matrix: Solid/Soil **Prep Type: Total**

		Percent Internal Standard Recovery (Acceptance Limits)							
		TCDD	PeCDD	HxCDD2	HpCDD	OCDD	TCDF	PeCDF1	HxCDF1
Lab Sample ID	Client Sample ID	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)
HUJ0059-01	KSPMA2-DU-1	97	97	111	108	184 *	85	96	99
HUJ0059-02	KSPMA2-DU-2	104	95	107	105	160 *	101	91	95
HUJ0059-03	KSPMA2-DU-3	93	92	110	103	125	98	91	105

		Percent Internal Standard Recovery (Acceptance Limits)
		HpCDF1
Lab Sample ID	Client Sample ID	(40-135)
HUJ0059-01	KSPMA2-DU-1	117
HUJ0059-02	KSPMA2-DU-2	114
HUJ0059-03	KSPMA2-DU-3	113

Internal Standard Legend

TCDD = 13C-2,3,7,8-TCDD
PeCDD = 13C-1,2,3,7,8-PeCDD
HxCDD2 = 13C-1,2,3,6,7,8-HxCDD
HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
OCDD = 13C-OCDD
TCDF = 13C-2,3,7,8-TCDF
PeCDF1 = 13C-1,2,3,7,8-PeCDF
HxCDF1 = 13C-1,2,3,4,7,8-HxCDF
HpCDF1 = 13C-1,2,3,4,6,7,8-HpCDF

Method: 8081A - Pesticides (8081A)

Lab Sample ID: G1J210000137B
Matrix: Solid
Analysis Batch: 1294137

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 1294137_P

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	ND		1.7	0.22	ug/kg		10/21/11 16:00	11/10/11 15:37	1
gamma-BHC (Lindane)	ND		1.7	0.17	ug/kg		10/21/11 16:00	11/10/11 15:37	1
Heptachlor	ND		1.7	0.19	ug/kg		10/21/11 16:00	11/10/11 15:37	1
Aldrin	ND		1.7	0.21	ug/kg		10/21/11 16:00	11/10/11 15:37	1
beta-BHC	ND		1.7	0.33	ug/kg		10/21/11 16:00	11/10/11 15:37	1
delta-BHC	ND		1.7	0.16	ug/kg		10/21/11 16:00	11/10/11 15:37	1
Heptachlor epoxide	ND		1.7	0.12	ug/kg		10/21/11 16:00	11/10/11 15:37	1
Endosulfan I	ND		1.7	0.052	ug/kg		10/21/11 16:00	11/10/11 15:37	1
gamma-Chlordane	ND		1.7	0.053	ug/kg		10/21/11 16:00	11/10/11 15:37	1
alpha-Chlordane	ND		1.7	0.20	ug/kg		10/21/11 16:00	11/10/11 15:37	1
4,4'-DDE	ND		3.4	0.22	ug/kg		10/21/11 16:00	11/10/11 15:37	1
Dieldrin	ND		3.4	0.091	ug/kg		10/21/11 16:00	11/10/11 15:37	1
Endrin	ND		3.4	0.11	ug/kg		10/21/11 16:00	11/10/11 15:37	1
4,4'-DDD	ND		3.4	0.26	ug/kg		10/21/11 16:00	11/10/11 15:37	1
Endosulfan II	ND		3.4	0.10	ug/kg		10/21/11 16:00	11/10/11 15:37	1
4,4'-DDT	ND		3.4	0.40	ug/kg		10/21/11 16:00	11/10/11 15:37	1
Endrin aldehyde	ND		3.4	0.11	ug/kg		10/21/11 16:00	11/10/11 15:37	1
Methoxychlor	ND		17	1.3	ug/kg		10/21/11 16:00	11/10/11 15:37	1
Endosulfan sulfate	ND		3.4	0.092	ug/kg		10/21/11 16:00	11/10/11 15:37	1
Endrin ketone	ND		3.4	0.34	ug/kg		10/21/11 16:00	11/10/11 15:37	1
Toxaphene	ND		67	20	ug/kg		10/21/11 16:00	11/10/11 15:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*106*		*49 - 119*	*10/21/11 16:00*	*11/10/11 15:37*	*1*
Tetrachloro-m-xylene	*97*		*58 - 111*	*10/21/11 16:00*	*11/10/11 15:37*	*1*

Lab Sample ID: G1J210000137C
Matrix: Solid
Analysis Batch: 1294137

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 1294137_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
alpha-BHC	8.33	4.04	a	ug/kg		48	71 - 121
gamma-BHC (Lindane)	8.33	4.01	a	ug/kg		48	74 - 121
Heptachlor	8.33	4.22	a	ug/kg		51	74 - 120
Aldrin	8.33	4.06	a	ug/kg		49	68 - 116
beta-BHC	8.33	4.02	a	ug/kg		48	72 - 111
delta-BHC	8.33	4.15	a	ug/kg		50	75 - 124
Heptachlor epoxide	8.33	4.13	a	ug/kg		50	74 - 116
Endosulfan I	8.33	3.94	a	ug/kg		47	62 - 111
gamma-Chlordane	8.33	4.30	a	ug/kg		52	68 - 116
alpha-Chlordane	8.33	4.12	a	ug/kg		49	71 - 116
4,4'-DDE	16.7	8.62	a	ug/kg		52	71 - 129
Dieldrin	16.7	8.47	a	ug/kg		51	68 - 123
Endrin	16.7	8.56	a	ug/kg		51	71 - 128
4,4'-DDD	16.7	8.49	a	ug/kg		51	79 - 124
Endosulfan II	16.7	8.24	a	ug/kg		49	70 - 121
4,4'-DDT	16.7	8.47	a	ug/kg		51	68 - 129
Endrin aldehyde	16.7	5.98		ug/kg		36	21 - 112
Methoxychlor	83.3	42.6	a	ug/kg		51	71 - 123

Method: 8081A - Pesticides (8081A) (Continued)

Lab Sample ID: G1J210000137C — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total**
Analysis Batch: 1294137 — **Prep Batch: 1294137_P**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Endosulfan sulfate			16.7	8.87	a	ug/kg		53	69 - 120		
Endrin ketone			16.7	8.35	a	ug/kg		50	65 - 118		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Decachlorobiphenyl	*49*		*49 - 119*
Tetrachloro-m-xylene	*45*	*	*58 - 111*

Lab Sample ID: G1J210000137C — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total**
Analysis Batch: 1294137 — **Prep Batch: 1294137_P**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Toxaphene			125	127		ug/kg		102	41 - 128		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Decachlorobiphenyl	*99*		*49 - 119*
Tetrachloro-m-xylene	*92*		*58 - 111*

Lab Sample ID: G1J140465001D — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total**
Analysis Batch: 1294137 — **Prep Batch: 1294137_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	SD1 Result	SD1 Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
alpha-BHC	ND		10.5	11.0		ug/kg	☼	105	71 - 121	6.2	30
gamma-BHC (Lindane)	ND		10.5	10.5		ug/kg	☼	99	74 - 121	2.6	30
Heptachlor	ND		10.5	9.89		ug/kg	☼	94	74 - 120	0.26	30
Aldrin	ND		10.5	11.5		ug/kg	☼	109	68 - 116	8.4	30
beta-BHC	ND		10.5	11.1		ug/kg	☼	105	72 - 111	7.4	30
delta-BHC	ND		10.5	11.4		ug/kg	☼	108	75 - 124	3.6	30
Heptachlor epoxide	ND		10.5	11.3		ug/kg	☼	107	74 - 116	6.9	30
Endosulfan I	ND		10.5	10.8		ug/kg	☼	103	62 - 111	9.0	30
gamma-Chlordane	ND		10.5	11.6		ug/kg	☼	111	68 - 116	5.8	30
alpha-Chlordane	ND		10.5	11.3		ug/kg	☼	107	71 - 116	6.6	30
4,4'-DDE	ND		21.1	22.4		ug/kg	☼	106	71 - 129	7.3	30
Dieldrin	ND		21.1	22.7		ug/kg	☼	108	68 - 123	6.4	30
Endrin	ND		21.1	22.9		ug/kg	☼	108	71 - 128	6.2	30
4,4'-DDD	ND		21.1	23.2		ug/kg	☼	110	79 - 124	7.0	30
Endosulfan II	ND		21.1	22.2		ug/kg	☼	105	70 - 121	6.1	30
4,4'-DDT	ND		21.1	21.6		ug/kg	☼	102	68 - 129	4.2	30
Endrin aldehyde	ND		21.1	16.2		ug/kg	☼	77	21 - 112	3.7	30
Methoxychlor	ND		105	110		ug/kg	☼	104	71 - 123	6.3	30
Endosulfan sulfate	ND		21.1	24.0		ug/kg	☼	114	69 - 120	6.1	30
Endrin ketone	ND		21.1	21.9		ug/kg	☼	104	65 - 118	6.0	30

Surrogate	*SD1 %Recovery*	*SD1 Qualifier*	*Limits*
Decachlorobiphenyl	*101*		*49 - 119*
Tetrachloro-m-xylene	*91*		*58 - 111*

Method: 8081A - Pesticides (8081A) (Continued)

Lab Sample ID: G1J140465001S | **Client Sample ID: Matrix Spike**
Matrix: Solid | **Prep Type: Total**
Analysis Batch: 1294137 | **Prep Batch: 1294137_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS1 Result	MS1 Qualifier	Unit	D	%Rec	%Rec. Limits
alpha-BHC	ND		10.2	10.3		ug/kg	☼	101	71 - 121
gamma-BHC (Lindane)	ND		10.2	10.2		ug/kg	☼	100	74 - 121
Heptachlor	ND		10.2	9.86		ug/kg	☼	96	74 - 120
Aldrin	ND		10.2	10.6		ug/kg	☼	103	68 - 116
beta-BHC	ND		10.2	10.3		ug/kg	☼	100	72 - 111
delta-BHC	ND		10.2	11.0		ug/kg	☼	107	75 - 124
Heptachlor epoxide	ND		10.2	10.5		ug/kg	☼	103	74 - 116
Endosulfan I	ND		10.2	9.90		ug/kg	☼	97	62 - 111
gamma-Chlordane	ND		10.2	11.0		ug/kg	☼	107	68 - 116
alpha-Chlordane	ND		10.2	10.6		ug/kg	☼	103	71 - 116
4,4'-DDE	ND		20.5	20.9		ug/kg	☼	102	71 - 129
Dieldrin	ND		20.5	21.3		ug/kg	☼	104	68 - 123
Endrin	ND		20.5	21.5		ug/kg	☼	105	71 - 128
4,4'-DDD	ND		20.5	21.6		ug/kg	☼	105	79 - 124
Endosulfan II	ND		20.5	20.9		ug/kg	☼	102	70 - 121
4,4'-DDT	ND		20.5	20.7		ug/kg	☼	101	68 - 129
Endrin aldehyde	ND		20.5	16.8		ug/kg	☼	82	21 - 112
Methoxychlor	ND		102	103		ug/kg	☼	100	71 - 123
Endosulfan sulfate	ND		20.5	22.6		ug/kg	☼	110	69 - 120
Endrin ketone	ND		20.5	20.6		ug/kg	☼	100	65 - 118

Surrogate	*MS1 %Recovery*	*MS1 Qualifier*	*Limits*
Decachlorobiphenyl	*93*		*49 - 119*
Tetrachloro-m-xylene	*85*		*58 - 111*

Lab Sample ID: G1K030000086B | **Client Sample ID: Method Blank**
Matrix: Solid | **Prep Type: Total**
Analysis Batch: 1307086 | **Prep Batch: 1307086_P**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	ND		1.7	0.22	ug/kg		11/03/11 11:00	11/10/11 10:19	1
gamma-BHC (Lindane)	ND		1.7	0.17	ug/kg		11/03/11 11:00	11/10/11 10:19	1
Heptachlor	ND		1.7	0.19	ug/kg		11/03/11 11:00	11/10/11 10:19	1
Aldrin	ND		1.7	0.21	ug/kg		11/03/11 11:00	11/10/11 10:19	1
beta-BHC	ND		1.7	0.33	ug/kg		11/03/11 11:00	11/10/11 10:19	1
delta-BHC	ND		1.7	0.16	ug/kg		11/03/11 11:00	11/10/11 10:19	1
Heptachlor epoxide	ND		1.7	0.12	ug/kg		11/03/11 11:00	11/10/11 10:19	1
Endosulfan I	ND		1.7	0.052	ug/kg		11/03/11 11:00	11/10/11 10:19	1
gamma-Chlordane	0.50	J PG	1.7	0.053	ug/kg		11/03/11 11:00	11/10/11 10:19	1
alpha-Chlordane	ND		1.7	0.20	ug/kg		11/03/11 11:00	11/10/11 10:19	1
4,4'-DDE	ND		3.4	0.22	ug/kg		11/03/11 11:00	11/10/11 10:19	1
Dieldrin	ND		3.4	0.091	ug/kg		11/03/11 11:00	11/10/11 10:19	1
Endrin	ND		3.4	0.11	ug/kg		11/03/11 11:00	11/10/11 10:19	1
4,4'-DDD	ND		3.4	0.26	ug/kg		11/03/11 11:00	11/10/11 10:19	1
Endosulfan II	ND		3.4	0.10	ug/kg		11/03/11 11:00	11/10/11 10:19	1
4,4'-DDT	ND		3.4	0.40	ug/kg		11/03/11 11:00	11/10/11 10:19	1
Endrin aldehyde	0.11	J PG	3.4	0.11	ug/kg		11/03/11 11:00	11/10/11 10:19	1
Methoxychlor	ND		17	1.3	ug/kg		11/03/11 11:00	11/10/11 10:19	1
Endosulfan sulfate	ND		3.4	0.092	ug/kg		11/03/11 11:00	11/10/11 10:19	1

Method: 8081A - Pesticides (8081A) (Continued)

Lab Sample ID: G1K030000086B — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total**
Analysis Batch: 1307086 — **Prep Batch: 1307086_P**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin ketone	ND		3.4	0.34	ug/kg		11/03/11 11:00	11/10/11 10:19	1
Toxaphene	ND		67	20	ug/kg		11/03/11 11:00	11/10/11 10:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*88*		*49 - 119*	*11/03/11 11:00*	*11/10/11 10:19*	*1*
Tetrachloro-m-xylene	*82*		*58 - 111*	*11/03/11 11:00*	*11/10/11 10:19*	*1*

Lab Sample ID: G1K030000086C — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total**
Analysis Batch: 1307086 — **Prep Batch: 1307086_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
alpha-BHC	8.33	7.56		ug/kg		91	71 - 121
gamma-BHC (Lindane)	8.33	7.78		ug/kg		93	74 - 121
Heptachlor	8.33	8.51		ug/kg		102	74 - 120
Aldrin	8.33	7.38		ug/kg		89	68 - 116
beta-BHC	8.33	7.31		ug/kg		88	72 - 111
delta-BHC	8.33	8.05		ug/kg		97	75 - 124
Heptachlor epoxide	8.33	7.52		ug/kg		90	74 - 116
Endosulfan I	8.33	7.58		ug/kg		91	62 - 111
gamma-Chlordane	8.33	7.90		ug/kg		95	68 - 116
alpha-Chlordane	8.33	7.78		ug/kg		93	71 - 116
4,4'-DDE	16.7	16.0		ug/kg		96	71 - 129
Dieldrin	16.7	16.5		ug/kg		99	68 - 123
Endrin	16.7	17.1		ug/kg		102	71 - 128
4,4'-DDD	16.7	17.6		ug/kg		105	79 - 124
Endosulfan II	16.7	17.9		ug/kg		107	70 - 121
4,4'-DDT	16.7	20.3		ug/kg		122	68 - 129
Endrin aldehyde	16.7	9.44		ug/kg		57	21 - 112
Methoxychlor	83.3	100		ug/kg		120	71 - 123
Endosulfan sulfate	16.7	17.6		ug/kg		105	69 - 120
Endrin ketone	16.7	18.6		ug/kg		111	65 - 118

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Decachlorobiphenyl	*88*		*49 - 119*
Tetrachloro-m-xylene	*82*		*58 - 111*

Lab Sample ID: G1K030000086C — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total**
Analysis Batch: 1307086 — **Prep Batch: 1307086_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toxaphene	125	146		ug/kg		117	41 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Decachlorobiphenyl	*105*		*49 - 119*
Tetrachloro-m-xylene	*90*		*58 - 111*

Method: 8081A - Pesticides (8081A) (Continued)

Lab Sample ID: G1J140465001D — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total**
Analysis Batch: 1307086 — **Prep Batch: 1307086_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	SD1 Result	SD1 Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
alpha-BHC	ND		10.0	9.25		ug/kg	☼	92	71 - 121	3.8	30
gamma-BHC (Lindane)	ND		10.0	9.74		ug/kg	☼	97	74 - 121	1.3	30
Heptachlor	ND		10.0	10.6		ug/kg	☼	105	74 - 120	1.6	30
Aldrin	ND		10.0	8.84		ug/kg	☼	88	68 - 116	4.8	30
beta-BHC	ND		10.0	8.93		ug/kg	☼	89	72 - 111	2.6	30
delta-BHC	ND		10.0	9.72		ug/kg	☼	97	75 - 124	3.4	30
Heptachlor epoxide	ND		10.0	9.01		ug/kg	☼	90	74 - 116	4.0	30
Endosulfan I	ND		10.0	9.07		ug/kg	☼	90	62 - 111	4.2	30
gamma-Chlordane	0.73	J B	10.0	9.24		ug/kg	☼	85	68 - 116	5.7	30
alpha-Chlordane	ND		10.0	9.30		ug/kg	☼	93	71 - 116	3.9	30
4,4'-DDE	ND		20.1	19.1		ug/kg	☼	95	71 - 129	3.4	30
Dieldrin	ND		20.1	20.0		ug/kg	☼	99	68 - 123	3.4	30
Endrin	ND		20.1	20.7		ug/kg	☼	103	71 - 128	2.9	30
4,4'-DDD	ND		20.1	21.0		ug/kg	☼	105	79 - 124	3.3	30
Endosulfan II	ND		20.1	21.3		ug/kg	☼	106	70 - 121	3.1	30
4,4'-DDT	ND		20.1	24.3		ug/kg	☼	121	68 - 129	1.8	30
Endrin aldehyde	ND		20.1	11.9		ug/kg	☼	59	21 - 112	14	30
Methoxychlor	ND		100	120		ug/kg	☼	119	71 - 123	1.5	30
Endosulfan sulfate	ND		20.1	20.9		ug/kg	☼	104	69 - 120	2.4	30
Endrin ketone	ND		20.1	22.2		ug/kg	☼	110	65 - 118	1.3	30

Surrogate	*SD1 %Recovery*	*SD1 Qualifier*	*Limits*
Decachlorobiphenyl	*85*		*49 - 119*
Tetrachloro-m-xylene	*80*		*58 - 111*

Lab Sample ID: G1J140465001S — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total**
Analysis Batch: 1307086 — **Prep Batch: 1307086_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS1 Result	MS1 Qualifier	Unit	D	%Rec	%Rec. Limits
alpha-BHC	ND		10.3	9.60		ug/kg	☼	93	71 - 121
gamma-BHC (Lindane)	ND		10.3	9.87		ug/kg	☼	96	74 - 121
Heptachlor	ND		10.3	10.7		ug/kg	☼	104	74 - 120
Aldrin	ND		10.3	9.27		ug/kg	☼	90	68 - 116
beta-BHC	ND		10.3	9.16		ug/kg	☼	89	72 - 111
delta-BHC	ND		10.3	10.1		ug/kg	☼	98	75 - 124
Heptachlor epoxide	ND		10.3	9.38		ug/kg	☼	91	74 - 116
Endosulfan I	ND		10.3	9.45		ug/kg	☼	92	62 - 111
gamma-Chlordane	0.73	J B	10.3	9.78		ug/kg	☼	88	68 - 116
alpha-Chlordane	ND		10.3	9.67		ug/kg	☼	94	71 - 116
4,4'-DDE	ND		20.6	19.8		ug/kg	☼	96	71 - 129
Dieldrin	ND		20.6	20.6		ug/kg	☼	100	68 - 123
Endrin	ND		20.6	21.3		ug/kg	☼	103	71 - 128
4,4'-DDD	ND		20.6	21.7		ug/kg	☼	105	79 - 124
Endosulfan II	ND		20.6	21.9		ug/kg	☼	106	70 - 121
4,4'-DDT	ND		20.6	24.8		ug/kg	☼	120	68 - 129
Endrin aldehyde	ND		20.6	10.4		ug/kg	☼	50	21 - 112
Methoxychlor	ND		103	122		ug/kg	☼	118	71 - 123
Endosulfan sulfate	ND		20.6	21.4		ug/kg	☼	104	69 - 120

Method: 8081A - Pesticides (8081A) (Continued)

Lab Sample ID: G1J140465001S — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total**
Analysis Batch: 1307086 — **Prep Batch: 1307086_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS1 Result	MS1 Qualifier	Unit	D	%Rec	%Rec. Limits
Endrin ketone	ND		20.6	22.4		ug/kg	☼	109	65 - 118

Surrogate	*MS1 %Recovery*	*MS1 Qualifier*	*Limits*
Decachlorobiphenyl	*84*		*49 - 119*
Tetrachloro-m-xylene	*79*		*58 - 111*

Method: 8290 - Dioxins/Furans, HRGC/HRMS (8290)

Lab Sample ID: G1J260000155B — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total**
Analysis Batch: 1299155 — **Prep Batch: 1299155_P**

Analyte	MB Result	MB Qualifier	ML	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		2.0	0.28	1		pg/g		10/26/11 17:00	11/01/11 15:22	2
1,2,3,7,8-PeCDD	ND		10	0.43	0.5		pg/g		10/26/11 17:00	11/01/11 15:22	2
1,2,3,4,7,8-HxCDD	ND		10	0.48	0.1		pg/g		10/26/11 17:00	11/01/11 15:22	2
1,2,3,6,7,8-HxCDD	ND		10	0.37	0.1		pg/g		10/26/11 17:00	11/01/11 15:22	2
1,2,3,7,8,9-HxCDD	ND		10	0.35	0.1		pg/g		10/26/11 17:00	11/01/11 15:22	2
1,2,3,4,6,7,8-HpCDD	ND		10	0.20	0.01		pg/g		10/26/11 17:00	11/01/11 15:22	2
OCDD	ND		20	0.42	0.001		pg/g		10/26/11 17:00	11/01/11 15:22	2
2,3,7,8-TCDF	ND		2.0	0.21	0.1		pg/g		10/26/11 17:00	11/01/11 15:22	2
1,2,3,7,8-PeCDF	ND		10	0.24	0.05		pg/g		10/26/11 17:00	11/01/11 15:22	2
2,3,4,7,8-PeCDF	ND		10	0.25	0.5		pg/g		10/26/11 17:00	11/01/11 15:22	2
1,2,3,4,7,8-HxCDF	ND		10	0.26	0.1		pg/g		10/26/11 17:00	11/01/11 15:22	2
1,2,3,6,7,8-HxCDF	ND		10	0.21	0.1		pg/g		10/26/11 17:00	11/01/11 15:22	2
2,3,4,6,7,8-HxCDF	ND		10	0.24	0.1		pg/g		10/26/11 17:00	11/01/11 15:22	2
1,2,3,7,8,9-HxCDF	ND		10	0.26	0.1		pg/g		10/26/11 17:00	11/01/11 15:22	2
1,2,3,4,6,7,8-HpCDF	ND		10	0.13	0.01		pg/g		10/26/11 17:00	11/01/11 15:22	2
1,2,3,4,7,8,9-HpCDF	ND		10	0.17	0.01		pg/g		10/26/11 17:00	11/01/11 15:22	2
OCDF	ND		20	0.32	0.001		pg/g		10/26/11 17:00	11/01/11 15:22	2
Total TEQ						**0.00**					

Internal Standard	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*79*		*40 - 135*	*10/26/11 17:00*	*11/01/11 15:22*	*2*
13C-1,2,3,7,8-PeCDD	*76*		*40 - 135*	*10/26/11 17:00*	*11/01/11 15:22*	*2*
13C-1,2,3,6,7,8-HxCDD	*70*		*40 - 135*	*10/26/11 17:00*	*11/01/11 15:22*	*2*
13C-1,2,3,4,6,7,8-HpCDD	*86*		*40 - 135*	*10/26/11 17:00*	*11/01/11 15:22*	*2*
13C-OCDD	*97*		*40 - 135*	*10/26/11 17:00*	*11/01/11 15:22*	*2*
13C-2,3,7,8-TCDF	*77*		*40 - 135*	*10/26/11 17:00*	*11/01/11 15:22*	*2*
13C-1,2,3,7,8-PeCDF	*87*		*40 - 135*	*10/26/11 17:00*	*11/01/11 15:22*	*2*
13C-1,2,3,4,7,8-HxCDF	*67*		*40 - 135*	*10/26/11 17:00*	*11/01/11 15:22*	*2*
13C-1,2,3,4,6,7,8-HpCDF	*78*		*40 - 135*	*10/26/11 17:00*	*11/01/11 15:22*	*2*

Lab Sample ID: G1J260000155C — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total**
Analysis Batch: 1299155 — **Prep Batch: 1299155_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,3,7,8-TCDD	20.0	23.5		pg/g		118	60 - 138

Method: 8290 - Dioxins/Furans, HRGC/HRMS (8290) (Continued)

Lab Sample ID: G1J260000155C
Matrix: Solid
Analysis Batch: 1299155

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 1299155_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3,7,8-PeCDD	100	104		pg/g		104	70 - 122
1,2,3,4,7,8-HxCDD	100	94.5		pg/g		94	60 - 138
1,2,3,6,7,8-HxCDD	100	115		pg/g		115	68 - 136
1,2,3,7,8,9-HxCDD	100	114		pg/g		114	68 - 138
1,2,3,4,6,7,8-HpCDD	100	117		pg/g		117	71 - 128
OCDD	200	229		pg/g		115	70 - 128
2,3,7,8-TCDF	20.0	24.2	H	pg/g		121	56 - 158
1,2,3,7,8-PeCDF	100	113		pg/g		113	69 - 134
2,3,4,7,8-PeCDF	100	112		pg/g		112	70 - 131
1,2,3,4,7,8-HxCDF	100	109		pg/g		109	74 - 128
1,2,3,6,7,8-HxCDF	100	127		pg/g		127	67 - 140
2,3,4,6,7,8-HxCDF	100	116		pg/g		116	71 - 137
1,2,3,7,8,9-HxCDF	100	109		pg/g		109	72 - 134
1,2,3,4,6,7,8-HpCDF	100	113		pg/g		113	71 - 134
1,2,3,4,7,8,9-HpCDF	100	106		pg/g		106	68 - 129
OCDF	200	228		pg/g		114	63 - 141

Internal Standard	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*96*		*40 - 135*
13C-1,2,3,7,8-PeCDD	*97*		*40 - 135*
13C-1,2,3,6,7,8-HxCDD	*111*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDD	*97*		*40 - 135*
13C-OCDD	*98*		*40 - 135*
13C-2,3,7,8-TCDF	*99*		*40 - 135*
13C-1,2,3,7,8-PeCDF	*94*		*40 - 135*
13C-1,2,3,4,7,8-HxCDF	*102*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDF	*109*		*40 - 135*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 580-98260/10-A
Matrix: Solid
Analysis Batch: 98441

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98260

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0	0.32	mg/Kg		10/21/11 09:38	10/21/11 12:15	1
Barium	ND		0.50	0.10	mg/Kg		10/21/11 09:38	10/21/11 12:15	1
Cadmium	ND		0.50	0.20	mg/Kg		10/21/11 09:38	10/21/11 12:15	1
Chromium	ND		1.3	0.39	mg/Kg		10/21/11 09:38	10/21/11 12:15	1
Lead	ND		1.5	0.15	mg/Kg		10/21/11 09:38	10/21/11 12:15	1
Selenium	ND		5.0	0.20	mg/Kg		10/21/11 09:38	10/21/11 12:15	1
Silver	ND		1.0	0.56	mg/Kg		10/21/11 09:38	10/21/11 12:15	1
Antimony	ND		3.0	0.19	mg/Kg		10/21/11 09:38	10/21/11 12:15	1
Sodium	ND		100	15	mg/Kg		10/21/11 09:38	10/21/11 12:15	1
Potassium	ND		170	16	mg/Kg		10/21/11 09:38	10/21/11 12:15	1
Beryllium	ND		0.25	0.071	mg/Kg		10/21/11 09:38	10/21/11 12:15	1
Thallium	ND		5.0	0.42	mg/Kg		10/21/11 09:38	10/21/11 12:15	1
Calcium	5.29	J	55	5.2	mg/Kg		10/21/11 09:38	10/21/11 12:15	1
Molybdenum	ND		1.0	0.30	mg/Kg		10/21/11 09:38	10/21/11 12:15	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 580-98260/10-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98441 — **Prep Batch: 98260**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		10	3.6	mg/Kg		10/21/11 09:38	10/21/11 12:15	1
Nickel	ND		1.0	0.13	mg/Kg		10/21/11 09:38	10/21/11 12:15	1
Vanadium	ND		1.0	0.30	mg/Kg		10/21/11 09:38	10/21/11 12:15	1
Magnesium	ND		55	3.2	mg/Kg		10/21/11 09:38	10/21/11 12:15	1
Copper	ND		1.0	0.72	mg/Kg		10/21/11 09:38	10/21/11 12:15	1
Aluminum	ND		50	8.9	mg/Kg		10/21/11 09:38	10/21/11 12:15	1
Zinc	ND		2.0	0.53	mg/Kg		10/21/11 09:38	10/21/11 12:15	1
Tin	ND		5.0	0.27	mg/Kg		10/21/11 09:38	10/21/11 12:15	1
Manganese	0.0900	J	1.0	0.090	mg/Kg		10/21/11 09:38	10/21/11 12:15	1
Cobalt	ND		0.50	0.25	mg/Kg		10/21/11 09:38	10/21/11 12:15	1

Lab Sample ID: LCS 580-98260/11-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98441 — **Prep Batch: 98260**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	200	200		mg/Kg		100	80 - 120
Barium	200	201		mg/Kg		101	80 - 120
Cadmium	5.00	5.11		mg/Kg		102	80 - 120
Chromium	20.0	20.8		mg/Kg		104	80 - 120
Lead	50.0	51.2		mg/Kg		102	80 - 120
Selenium	200	198		mg/Kg		99	80 - 120
Silver	30.0	30.8		mg/Kg		103	75 - 120
Antimony	150	148		mg/Kg		98	80 - 120
Sodium	1000	974		mg/Kg		97	80 - 120
Potassium	1000	973		mg/Kg		97	80 - 120
Beryllium	5.00	4.94		mg/Kg		99	80 - 120
Thallium	200	200		mg/Kg		100	80 - 120
Calcium	1000	1060		mg/Kg		106	80 - 120
Molybdenum	250	256		mg/Kg		102	80 - 120
Iron	1100	1120		mg/Kg		102	80 - 120
Nickel	50.0	50.8		mg/Kg		102	80 - 120
Vanadium	50.0	52.0		mg/Kg		104	80 - 120
Magnesium	1000	1030		mg/Kg		103	80 - 120
Copper	25.0	24.0		mg/Kg		96	80 - 120
Aluminum	200	211		mg/Kg		106	80 - 120
Zinc	50.0	50.4		mg/Kg		101	80 - 120
Tin	250	255		mg/Kg		102	80 - 120
Manganese	50.0	51.5		mg/Kg		103	80 - 120
Cobalt	50.0	51.6		mg/Kg		103	80 - 120

Lab Sample ID: LCSD 580-98260/12-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98441 — **Prep Batch: 98260**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	200	206		mg/Kg		103	80 - 120	3	20
Barium	200	208		mg/Kg		104	80 - 120	4	20
Cadmium	5.00	5.29		mg/Kg		106	80 - 120	4	20
Chromium	20.0	21.5		mg/Kg		108	80 - 120	3	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSD 580-98260/12-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98441 — **Prep Batch: 98260**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	50.0	53.0		mg/Kg		106	80 - 120	4	20
Selenium	200	204		mg/Kg		102	80 - 120	3	20
Silver	30.0	31.0		mg/Kg		103	75 - 120	1	20
Antimony	150	152		mg/Kg		101	80 - 120	3	20
Sodium	1000	969		mg/Kg		97	80 - 120	0	20
Potassium	1000	1000		mg/Kg		100	80 - 120	3	20
Beryllium	5.00	5.00		mg/Kg		100	80 - 120	1	20
Thallium	200	207		mg/Kg		103	80 - 120	3	20
Calcium	1000	1080		mg/Kg		108	80 - 120	2	20
Molybdenum	250	264		mg/Kg		105	80 - 120	3	20
Iron	1100	1150		mg/Kg		104	80 - 120	3	20
Nickel	50.0	52.6		mg/Kg		105	80 - 120	3	20
Vanadium	50.0	53.4		mg/Kg		107	80 - 120	3	20
Magnesium	1000	1060		mg/Kg		106	80 - 120	3	20
Copper	25.0	24.6		mg/Kg		99	80 - 120	3	20
Aluminum	200	220		mg/Kg		110	80 - 120	4	20
Zinc	50.0	51.3		mg/Kg		103	80 - 120	2	20
Tin	250	263		mg/Kg		105	80 - 120	3	20
Manganese	50.0	53.2		mg/Kg		106	80 - 120	3	20
Cobalt	50.0	53.3		mg/Kg		107	80 - 120	3	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 580-98258/10-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98280 — **Prep Batch: 98258**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.0063	mg/Kg		10/21/11 09:22	10/21/11 10:55	10

Lab Sample ID: LCS 580-98258/11-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98280 — **Prep Batch: 98258**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.100	0.0949		mg/Kg		95	80 - 120

Lab Sample ID: LCSD 580-98258/12-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98280 — **Prep Batch: 98258**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.100	0.0956		mg/Kg		96	80 - 120	1	20

QC Association Summary

Client: Department of Health, HEER Office
Project/Site: Kohala PMA 2

TestAmerica Job ID: HUJ0059

GC/MS Semi VOA

Analysis Batch: 1294137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
G1J140465001D	Matrix Spike Duplicate	Total	Solid	8081A	
G1J140465001S	Matrix Spike	Total	Solid	8081A	
G1J210000137B	Method Blank	Total	Solid	8081A	
G1J210000137C	Lab Control Sample	Total	Solid	8081A	
HUJ0059-01	KSPMA2-DU-1	Total	Solid/Soil	8081A	
HUJ0059-02	KSPMA2-DU-2	Total	Solid/Soil	8081A	
HUJ0059-03	KSPMA2-DU-3	Total	Solid/Soil	8081A	

Analysis Batch: 1307086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
G1J140465001D	Matrix Spike Duplicate	Total	Solid	8081A	
G1J140465001S	Matrix Spike	Total	Solid	8081A	
G1K030000086B	Method Blank	Total	Solid	8081A	
G1K030000086C	Lab Control Sample	Total	Solid	8081A	
HUJ0059-01	KSPMA2-DU-1	Total	Solid/Soil	8081A	
HUJ0059-02	KSPMA2-DU-2	Total	Solid/Soil	8081A	
HUJ0059-03	KSPMA2-DU-3	Total	Solid/Soil	8081A	

Prep Batch: 1294137_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
G1J140465001D	Matrix Spike Duplicate	Total	Solid	3550B	
G1J140465001S	Matrix Spike	Total	Solid	3550B	
G1J210000137B	Method Blank	Total	Solid	3550B	
G1J210000137C	Lab Control Sample	Total	Solid	3550B	
HUJ0059-01	KSPMA2-DU-1	Total	Solid/Soil	3550B	
HUJ0059-02	KSPMA2-DU-2	Total	Solid/Soil	3550B	
HUJ0059-03	KSPMA2-DU-3	Total	Solid/Soil	3550B	

Prep Batch: 1307086_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
G1J140465001D	Matrix Spike Duplicate	Total	Solid	3550B	
G1J140465001S	Matrix Spike	Total	Solid	3550B	
G1K030000086B	Method Blank	Total	Solid	3550B	
G1K030000086C	Lab Control Sample	Total	Solid	3550B	
HUJ0059-01	KSPMA2-DU-1	Total	Solid/Soil	3550B	
HUJ0059-02	KSPMA2-DU-2	Total	Solid/Soil	3550B	
HUJ0059-03	KSPMA2-DU-3	Total	Solid/Soil	3550B	

Specialty Organics

Analysis Batch: 1299155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
G1J260000155B	Method Blank	Total	Solid	8290	
G1J260000155C	Lab Control Sample	Total	Solid	8290	
HUJ0059-01	KSPMA2-DU-1	Total	Solid/Soil	8290	
HUJ0059-02	KSPMA2-DU-2	Total	Solid/Soil	8290	
HUJ0059-03	KSPMA2-DU-3	Total	Solid/Soil	8290	

Prep Batch: 1299155_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
G1J260000155B	Method Blank	Total	Solid	8290	
G1J260000155C	Lab Control Sample	Total	Solid	8290	

Specialty Organics (Continued)

Prep Batch: 1299155_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HUJ0059-01	KSPMA2-DU-1	Total	Solid/Soil	8290	
HUJ0059-02	KSPMA2-DU-2	Total	Solid/Soil	8290	
HUJ0059-03	KSPMA2-DU-3	Total	Solid/Soil	8290	

Metals

Prep Batch: 98258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HUJ0059-01	KSPMA2-DU-1	Total/NA	Solid/Soil	7471A	
HUJ0059-02	KSPMA2-DU-2	Total/NA	Solid/Soil	7471A	
HUJ0059-03	KSPMA2-DU-3	Total/NA	Solid/Soil	7471A	
LCS 580-98258/11-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 580-98258/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
MB 580-98258/10-A	Method Blank	Total/NA	Solid	7471A	

Prep Batch: 98260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HUJ0059-01	KSPMA2-DU-1	Total/NA	Solid/Soil	3050B	
HUJ0059-02	KSPMA2-DU-2	Total/NA	Solid/Soil	3050B	
HUJ0059-03	KSPMA2-DU-3	Total/NA	Solid/Soil	3050B	
LCS 580-98260/11-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 580-98260/12-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
MB 580-98260/10-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 98280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HUJ0059-01	KSPMA2-DU-1	Total/NA	Solid/Soil	7471A	98258
HUJ0059-02	KSPMA2-DU-2	Total/NA	Solid/Soil	7471A	98258
HUJ0059-03	KSPMA2-DU-3	Total/NA	Solid/Soil	7471A	98258
LCS 580-98258/11-A	Lab Control Sample	Total/NA	Solid	7471A	98258
LCSD 580-98258/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	98258
MB 580-98258/10-A	Method Blank	Total/NA	Solid	7471A	98258

Analysis Batch: 98441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HUJ0059-01	KSPMA2-DU-1	Total/NA	Solid/Soil	6010B	98260
HUJ0059-01	KSPMA2-DU-1	Total/NA	Solid/Soil	6010B	98260
HUJ0059-02	KSPMA2-DU-2	Total/NA	Solid/Soil	6010B	98260
HUJ0059-02	KSPMA2-DU-2	Total/NA	Solid/Soil	6010B	98260
HUJ0059-03	KSPMA2-DU-3	Total/NA	Solid/Soil	6010B	98260
HUJ0059-03	KSPMA2-DU-3	Total/NA	Solid/Soil	6010B	98260
LCS 580-98260/11-A	Lab Control Sample	Total/NA	Solid	6010B	98260
LCSD 580-98260/12-A	Lab Control Sample Dup	Total/NA	Solid	6010B	98260
MB 580-98260/10-A	Method Blank	Total/NA	Solid	6010B	98260

Client Sample ID: KSPMA2-DU-1

Lab Sample ID: HUJ0059-01

Date Collected: 10/12/11 13:30

Matrix: Solid/Soil

Date Received: 10/13/11 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	3550B			1294137_P	10/21/11 16:00	AM	TAL WSC
Total	Analysis	8081A		1.77	1294137	11/07/11 20:07	AB	TAL WSC
Total	Prep	3550B			1307086_P	11/03/11 11:00	AM	TAL WSC
Total	Analysis	8081A		10.3	1307086	11/10/11 11:49	RN	TAL WSC
Total	Prep	8290			1299155_P	10/26/11 17:00	CC	TAL WSC
Total	Analysis	8290		0.98	1299155	11/05/11 00:47	LLH	TAL WSC
Total/NA	Prep	7471A			98258	10/21/11 09:22	PAB	TAL SEA
Total/NA	Analysis	7471A		10	98280	10/21/11 11:17	FCW	TAL SEA
Total/NA	Prep	3050B			98260	10/21/11 09:38	PAB	TAL SEA
Total/NA	Analysis	6010B		10	98441	10/21/11 14:34	SP	TAL SEA
Total/NA	Analysis	6010B		100	98441	10/21/11 14:40	SP	TAL SEA

Client Sample ID: KSPMA2-DU-2

Lab Sample ID: HUJ0059-02

Date Collected: 10/12/11 14:00

Matrix: Solid/Soil

Date Received: 10/13/11 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	3550B			1294137_P	10/21/11 16:00	AM	TAL WSC
Total	Analysis	8081A		2	1294137	11/07/11 20:41	AB	TAL WSC
Total	Prep	3550B			1307086_P	11/03/11 11:00	AM	TAL WSC
Total	Analysis	8081A		10.28	1307086	11/10/11 12:19	RN	TAL WSC
Total	Prep	8290			1299155_P	10/26/11 17:00	CC	TAL WSC
Total	Analysis	8290		4.94	1299155	11/05/11 01:30	LLH	TAL WSC
Total/NA	Prep	7471A			98258	10/21/11 09:22	PAB	TAL SEA
Total/NA	Analysis	7471A		10	98280	10/21/11 11:19	FCW	TAL SEA
Total/NA	Prep	3050B			98260	10/21/11 09:38	PAB	TAL SEA
Total/NA	Analysis	6010B		10	98441	10/21/11 14:46	SP	TAL SEA
Total/NA	Analysis	6010B		100	98441	10/21/11 14:52	SP	TAL SEA

Client Sample ID: KSPMA2-DU-3

Lab Sample ID: HUJ0059-03

Date Collected: 10/12/11 14:45

Matrix: Solid/Soil

Date Received: 10/13/11 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	3550B			1294137_P	10/21/11 16:00	AM	TAL WSC
Total	Analysis	8081A		1.93	1294137	11/07/11 21:15	AB	TAL WSC
Total	Prep	3550B			1307086_P	11/03/11 11:00	AM	TAL WSC
Total	Analysis	8081A		10.3	1307086	11/10/11 12:49	RN	TAL WSC
Total	Prep	8290			1299155_P	10/26/11 17:00	CC	TAL WSC
Total	Analysis	8290		49.6	1299155	11/05/11 02:12	LLH	TAL WSC
Total/NA	Prep	7471A			98258	10/21/11 09:22	PAB	TAL SEA
Total/NA	Analysis	7471A		10	98280	10/21/11 11:21	FCW	TAL SEA
Total/NA	Prep	3050B			98260	10/21/11 09:38	PAB	TAL SEA
Total/NA	Analysis	6010B		10	98441	10/21/11 14:58	SP	TAL SEA

Lab Chronicle

Client: Department of Health, HEER Office
Project/Site: Kohala PMA 2

TestAmerica Job ID: HUJ0059

Client Sample ID: KSPMA2-DU-3

Lab Sample ID: HUJ0059-03

Date Collected: 10/12/11 14:45

Matrix: Solid/Soil

Date Received: 10/13/11 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010B		100	98441	10/21/11 15:04	SP	TAL SEA

Laboratory References:

ANATE = Anatek Labs., 1282 Alturas Dr., Moscow, ID 83843, TEL (208) 883-2839

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

TAL WSC = TestAmerica West Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Certification Summary

Client: Department of Health, HEER Office
Project/Site: Kohala PMA 2

TestAmerica Job ID: HUJ0059

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Honolulu	Alaska	Alaska UST	10	
TestAmerica Honolulu	Florida	NELAC	4	E87907
TestAmerica Honolulu	Hawaii	State Program	9	
TestAmerica Honolulu	L-A-B	DoD ELAP		L2250
TestAmerica Honolulu	L-A-B	ISO/IEC 17025		L2250
TestAmerica Honolulu	USDA	USDA		HON-S-206
TestAmerica Seattle	Alaska	Alaska UST	10	UST-022
TestAmerica Seattle	Alaska	TA-Port Heiden Mobile Lab	10	UST-093
TestAmerica Seattle	California	NELAC	9	1115CA
TestAmerica Seattle	Florida	NELAC	4	E871074
TestAmerica Seattle	L-A-B	DoD ELAP		L2236
TestAmerica Seattle	L-A-B	ISO/IEC 17025		L2236
TestAmerica Seattle	Louisiana	NELAC	6	05016
TestAmerica Seattle	Montana	MT DEQ UST	8	N/A
TestAmerica Seattle	Oregon	NELAC	10	WA100007
TestAmerica Seattle	USDA	USDA		P330-11-00222
TestAmerica Seattle	Washington	State Program	10	C553
TestAmerica West Sacramento	A2LA	DoD ELAP		2928-01
TestAmerica West Sacramento	Alaska	Alaska UST	10	UST-055
TestAmerica West Sacramento	Arizona	State Program	9	AZ0708
TestAmerica West Sacramento	Arkansas	State Program	6	88-0691
TestAmerica West Sacramento	Colorado	State Program	8	N/A
TestAmerica West Sacramento	Connecticut	State Program	1	PH-0691
TestAmerica West Sacramento	Florida	NELAC	4	E87570
TestAmerica West Sacramento	Georgia	State Program	4	960
TestAmerica West Sacramento	Guam	State Program	9	N/A
TestAmerica West Sacramento	Hawaii	State Program	9	N/A
TestAmerica West Sacramento	Illinois	NELAC	5	200060
TestAmerica West Sacramento	Kansas	NELAC	7	E-10375
TestAmerica West Sacramento	Louisiana	NELAC	6	30612
TestAmerica West Sacramento	Michigan	State Program	5	9947
TestAmerica West Sacramento	Nevada	State Program	9	CA44
TestAmerica West Sacramento	New Jersey	NELAC	2	CA005
TestAmerica West Sacramento	New Mexico	State Program	6	N/A
TestAmerica West Sacramento	New York	NELAC	2	11666
TestAmerica West Sacramento	Oregon	NELAC	10	CA200005
TestAmerica West Sacramento	Pennsylvania	NELAC	3	68-01272
TestAmerica West Sacramento	South Carolina	State Program	4	87014
TestAmerica West Sacramento	Texas	NELAC	6	T104704399-08-TX
TestAmerica West Sacramento	US Fish & Wildlife	US Fish & Wildlife		LE148388-0
TestAmerica West Sacramento	USDA	USDA		P330-09-00055
TestAmerica West Sacramento	Utah	NELAC	8	QUAN1
TestAmerica West Sacramento	Virginia	State Program	3	178
TestAmerica West Sacramento	Washington	State Program	10	C581
TestAmerica West Sacramento	West Virginia	West Virginia DEP	3	334
TestAmerica West Sacramento	West Virginia	West Virginia DHHR (DW)	3	9930C
TestAmerica West Sacramento	Wisconsin	State Program	5	998204680
TestAmerica West Sacramento	Wyoming	State Program	8	8TMS-Q

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method Summary

Client: Department of Health, HEER Office
Project/Site: Kohala PMA 2

TestAmerica Job ID: HUJ0059

Method	Method Description	Protocol	Laboratory
8081A	Pesticides (8081A)	SW846	TAL WSC
8290	Dioxins/Furans, HRGC/HRMS (8290)	SW846	TAL WSC
6010B	Metals (ICP)	SW846	TAL SEA
7471A	Mercury (CVAA)	SW846	TAL SEA
EPA 8151	Herbicides		ANATE
EPA 8270	Semivolatile Organics Compounds by EPA 8270		ANATE
EPA 8321	Herbicides		ANATE

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ANATE = Anatek Labs., 1282 Alturas Dr., Moscow, ID 83843, TEL (208) 883-2839

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

TAL WSC = TestAmerica West Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

CASE NARRATIVE November 4, 2011

Lab Name: Anatek Labs, Inc. 1282 Alturas Drive, Moscow, ID 83843 www.anateklabs.com *FL NELAP E87893, NV ID13-2004-31, WA DOE C126, OR ELAP ID200001, MT 0028, ID, CO, NM*

Project Tracking No.: HUJ0059
Anatek Batch: 111020054

Project Summary: Three (3) soil samples were received on 10/20/2011 custom herbicide, pesticide, and SVOC analysis. The samples were received with the appropriate chain of custody at 6.0C

Client Sample ID	Anatek Sample ID	Method/Prep Method
HUJ0059-01 (KSPMA2-DU-1 – Solid/Soil)	111020054-001	EPA 8151A/8270C/8321A
HUJ0059-02 (KSPMA2-DU-2 – Solid/Soil)	111020054-002	EPA 8151A/8270C/8321A
HUJ0059-03 (KSPMA2-DU-3 – Solid/Soil)	111020054-003	EPA 8151A/8270C/8321A

QA/QC Checks

Parameters	Yes / No	Exceptions / Deviations
Sample Holding Time Valid?	Y	NA
Surrogate Recoveries Valid?	Y	NA
QC Sample(s) Recoveries Valid?	Y	NA
Method Blank(s) Valid?	Y	NA
Tune(s) Valid?	Y	NA
Internal Standard Responses Valid?	Y	NA
Initial Calibration Curve(s) Valid?	Y	NA
Continuing Calibration(s) Valid?	Y	NA
Comments:	Y	NA

1. **Holding Time Requirements**

   No problems encountered.

2. **GC/MS Tune Requirements**

   No problems encountered.

3. **Calibration Requirements**

   No problems encountered.

4. **Surrogate Recovery Requirements**

   No problems encountered.

5. **QC Sample (LCS/MS/MSD) Recovery Requirements**

   No problems encountered.

6. Method Blank Requirements

The method blanks were non-detect (<MDL) for all analytes. No problems encountered.

7. Internal Standard(s) Response Requirements

No problems encountered.

8. Comments

N/A

I certify that this data package is in compliance with the terms and conditions of the contract. Release of the data contained in this data package has been authorized by the Laboratory Manager or his designee.

Approved by: _____

Anatek Labs, Inc.

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: TEST AMERICA - HONOLULU, HI
Address: 99-193 AIEA HEIGHTS DRIVE
AIEA, HI 96701-3900
Attn: MARVIN D HESKETT III

Batch #: 111020054
Project Name: HUJ0059

Analytical Results Report

Sample Number 111020054-001 **Sampling Date** 10/12/2011 **Date/Time Received** 10/20/2011 12:26 PM
Client Sample ID HUJ0059-01 (KSPMA2-DU-1 - SOLID/SOIL) **Extraction Date** 10/21/2011
Matrix Soil **Sampling Time** 1:30 PM
Comments

Parameter	Result	Units	MDL	PQL	Analysis Date	Analyst	Method	Qualifier
2,4,5-T	ND	mg/Kg	0.005	0.01	11/1/2011	EMP	EPA 8151A	
2,4,5-TP (Silvex)	ND	mg/Kg	0.005	0.01	11/1/2011	EMP	EPA 8151A	
2,4-D	0.022	mg/Kg	0.005	0.01	11/1/2011	EMP	EPA 8151A	
2,4-DB	ND	mg/Kg	0.005	0.01	11/1/2011	EMP	EPA 8151A	
Dacthal	ND	mg/Kg	0.005	0.01	11/1/2011	EMP	EPA 8151A	
Dalapon	ND	mg/Kg	0.005	0.01	11/1/2011	EMP	EPA 8151A	
Dicamba	ND	mg/Kg	0.005	0.01	11/1/2011	EMP	EPA 8151A	
Dichloroprop	ND	mg/Kg	0.005	0.01	11/1/2011	EMP	EPA 8151A	
Dinoseb	ND	mg/Kg	0.005	0.01	11/1/2011	EMP	EPA 8151A	
MCPA	ND	mg/Kg	0.005	0.01	11/1/2011	EMP	EPA 8151A	
Pentachlorophenol	ND	mg/Kg	0.005	0.01	11/1/2011	EMP	EPA 8151A	
Picloram	ND	mg/Kg	0.005	0.01	11/1/2011	EMP	EPA 8151A	

Surrogate Data

Sample Number 111020054-001

Surrogate Standard	Method	Percent Recovery	Control Limits
2,4-Dichlorophenylacetic acid	EPA 8151A	69.5	30-145

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Client: TEST AMERICA - HONOLULU, HI
Address: 99-193 AIEA HEIGHTS DRIVE
AIEA, HI 96701-3900
Attn: MARVIN D HESKETT III

Batch #: 111020054
Project Name: HUJ0059

Analytical Results Report

Sample Number	111020054-002	**Sampling Date**	10/12/2011	**Date/Time Received**	10/20/2011 12:26 PM
Client Sample ID	HUJ0059-02 (KSPMA2-DU-2 - SOLID/SOIL)			**Extraction Date**	10/21/2011
Matrix	Soil			**Sampling Time**	1:30 PM
Comments					

Parameter	Result	Units	MDL	PQL	Analysis Date	Analyst	Method	Qualifier
2,4,5-T	ND	mg/Kg	0.005	0.01	11/1/2011	EMP	EPA 8151A	
2,4,5-TP (Silvex)	ND	mg/Kg	0.005	0.01	11/1/2011	EMP	EPA 8151A	
2,4-D	ND	mg/Kg	0.005	0.01	11/1/2011	EMP	EPA 8151A	
2,4-DB	ND	mg/Kg	0.005	0.01	11/1/2011	EMP	EPA 8151A	
Dacthal	ND	mg/Kg	0.005	0.01	11/1/2011	EMP	EPA 8151A	
Dalapon	ND	mg/Kg	0.005	0.01	11/1/2011	EMP	EPA 8151A	
Dicamba	ND	mg/Kg	0.005	0.01	11/1/2011	EMP	EPA 8151A	
Dichloroprop	ND	mg/Kg	0.005	0.01	11/1/2011	EMP	EPA 8151A	
Dinoseb	ND	mg/Kg	0.005	0.01	11/1/2011	EMP	EPA 8151A	
MCPA	ND	mg/Kg	0.005	0.01	11/1/2011	EMP	EPA 8151A	
Pentachlorophenol	ND	mg/Kg	0.005	0.01	11/1/2011	EMP	EPA 8151A	
Picloram	ND	mg/Kg	0.005	0.01	11/1/2011	EMP	EPA 8151A	

Surrogate Data

Sample Number 111020054-002

Surrogate Standard	Method	Percent Recovery	Control Limits
2,4-Dichlorophenylacetic acid	EPA 8151A	65.7	30-145

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AIEA, HI 96701-3900
Attn: MARVIN D HESKETT III

Batch #: 111020054
Project Name: HUJ0059

Analytical Results Report

Sample Number	111020054-003	**Sampling Date**	10/12/2011	**Date/Time Received**	10/20/2011 12:26 PM
Client Sample ID	HUJ0059-03 (KSPMA2-DU-3 - SOLID/SOIL)			**Extraction Date**	10/21/2011
Matrix	Soil			**Sampling Time**	1:30 PM
Comments					

Parameter	Result	Units	MDL	PQL	Analysis Date	Analyst	Method	Qualifier
2,4,5-T	ND	mg/Kg	0.005	0.01	11/1/2011	EMP	EPA 8151A	
2,4,5-TP (Silvex)	ND	mg/Kg	0.005	0.01	11/1/2011	EMP	EPA 8151A	
2,4-D	ND	mg/Kg	0.005	0.01	11/1/2011	EMP	EPA 8151A	
2,4-DB	ND	mg/Kg	0.005	0.01	11/1/2011	EMP	EPA 8151A	
Dacthal	ND	mg/Kg	0.005	0.01	11/1/2011	EMP	EPA 8151A	
Dalapon	ND	mg/Kg	0.005	0.01	11/1/2011	EMP	EPA 8151A	
Dicamba	ND	mg/Kg	0.005	0.01	11/1/2011	EMP	EPA 8151A	
Dichloroprop	ND	mg/Kg	0.005	0.01	11/1/2011	EMP	EPA 8151A	
Dinoseb	ND	mg/Kg	0.005	0.01	11/1/2011	EMP	EPA 8151A	
MCPA	ND	mg/Kg	0.005	0.01	11/1/2011	EMP	EPA 8151A	
Pentachlorophenol	0.061	mg/Kg	0.005	0.01	11/1/2011	EMP	EPA 8151A	
Picloram	ND	mg/Kg	0.005	0.01	11/1/2011	EMP	EPA 8151A	

Surrogate Data

Sample Number 111020054-003

Surrogate Standard	Method	Percent Recovery	Control Limits
2,4-Dichlorophenylacetic acid	EPA 8151A	69.6	30-145

Authorized Signature

John Coddington, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

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The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

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Address: 99-193 AIEA HEIGHTS DRIVE
AIEA, HI 96701-3900
Attn: MARVIN D HESKETT III

Batch #: 111020054
Project Name: HUJ0059

Analytical Results Report

Quality Control Data

Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
Picloram	0.167	mg/kg	0.1	167.0	49-168	10/21/2011	11/1/2011
Pentachlorophenol	0.106	mg/kg	0.1	106.0	6-122	10/21/2011	11/1/2011
Dinoseb	0.136	mg/kg	0.1	136.0	41-141	10/21/2011	11/1/2011
Dicamba	0.097	mg/kg	0.1	97.0	28-151	10/21/2011	11/1/2011
Dalapon	0.028	mg/kg	0.1	28.0	8-102	10/21/2011	11/1/2011
Dacthal	0.128	mg/kg	0.1	128.0	11-133	10/21/2011	11/1/2011
2,4-D	0.117	mg/kg	0.1	117.0	28-154	10/21/2011	11/1/2011
2,4,5-TP (Silvex)	0.124	mg/kg	0.1	124.0	33-167	10/21/2011	11/1/2011
2,4,5-T	0.128	mg/kg	0.1	128.0	31-142	10/21/2011	11/1/2011

Matrix Spike

Sample Number	Parameter	Sample Result	MS Result	Units	MS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
111020054-001	Picloram	ND	0.139	mg/kg	0.1	139.0	49-168	10/21/2011	11/1/2011
111020054-001	Pentachlorophenol	ND	0.029	mg/kg	0.1	29.0	6-122	10/21/2011	11/1/2011
111020054-001	Dinoseb	ND	0.096	mg/kg	0.1	96.0	41-141	10/21/2011	11/1/2011
111020054-001	Dicamba	ND	0.144	mg/kg	0.1	144.0	28-151	10/21/2011	11/1/2011
111020054-001	Dalapon	ND	0.031	mg/kg	0.1	31.0	8-102	10/21/2011	11/1/2011
111020054-001	Dacthal	ND	0.100	mg/kg	0.1	100.0	11-133	10/21/2011	11/1/2011
111020054-001	2,4-D	0.022	0.175	mg/kg	0.1	153.0	28-154	10/21/2011	11/1/2011
111020054-001	2,4,5-TP (Silvex)	ND	0.152	mg/kg	0.1	152.0	33-167	10/21/2011	11/1/2011
111020054-001	2,4,5-T	ND	0.118	mg/kg	0.1	118.0	31-142	10/21/2011	11/1/2011

Matrix Spike Duplicate

Parameter	MSD Result	Units	MSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
Picloram	0.124	mg/kg	0.1	124.0	11.4	0-50	10/21/2011	11/1/2011
Pentachlorophenol	0.026	mg/kg	0.1	26.0	10.9	0-50	10/21/2011	11/1/2011
Dinoseb	0.085	mg/kg	0.1	85.0	12.2	0-50	10/21/2011	11/1/2011
Dicamba	0.127	mg/kg	0.1	127.0	12.5	0-50	10/21/2011	11/1/2011
Dalapon	0.021	mg/kg	0.1	21.0	38.5	0-50	10/21/2011	11/1/2011
Dacthal	0.085	mg/kg	0.1	85.0	16.2	0-50	10/21/2011	11/1/2011
2,4-D	0.155	mg/kg	0.1	133.0	13.3	0-50	10/21/2011	11/1/2011
2,4,5-TP (Silvex)	0.135	mg/kg	0.1	135.0	11.8	0-50	10/21/2011	11/1/2011

Comments:

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Address: 99-193 AIEA HEIGHTS DRIVE
AIEA, HI 96701-3900
Attn: MARVIN D HESKETT III

Batch #: 111020054
Project Name: HUJ0059

Analytical Results Report

Quality Control Data

Matrix Spike Duplicate

Parameter	MSD Result	Units	MSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
2,4,5-T	0.108	mg/kg	0.1	108.0	8.8	0-50	10/21/2011	11/1/2011

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
2,4,5-T	ND	mg/Kg	0.01	10/21/2011	11/1/2011
2,4,5-TP (Silvex)	ND	mg/Kg	0.01	10/21/2011	11/1/2011
2,4-D	ND	mg/Kg	0.01	10/21/2011	11/1/2011
2,4-DB	ND	mg/Kg	0.01	10/21/2011	11/1/2011
Dacthal	ND	mg/Kg	0.01	10/21/2011	11/1/2011
Dalapon	ND	mg/Kg	0.01	10/21/2011	11/1/2011
Dicamba	ND	mg/Kg	0.01	10/21/2011	11/1/2011
Dichloroprop	ND	mg/Kg	0.01	10/21/2011	11/1/2011
Dinoseb	ND	mg/Kg	0.01	10/21/2011	11/1/2011
MCPA	ND	mg/Kg	0.01	10/21/2011	11/1/2011
Pentachlorophenol	ND	mg/Kg	0.01	10/21/2011	11/1/2011
Picloram	ND	mg/Kg	0.01	10/21/2011	11/1/2011

AR Acceptable Range
ND Not Detected
PQL Practical Quantitation Limit
RPD Relative Percentage Difference

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595
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AIEA, HI 96701-3900
Attn: MARVIN D HESKETT III

Batch #: 111020054
Project Name: HUJ0059

Analytical Results Report

Sample Number 111020054-001 **Sampling Date** 10/12/2011 **Date/Time Received** 10/20/2011 12:26 PM
Client Sample ID HUJ0059-01 (KSPMA2-DU-1 - SOLID/SOIL) **Extraction Date** 10/21/2011
Matrix Soil **Sampling Time** 1:30 PM
Comments

Parameter	Result	Units	MDL	PQL	Analysis Date	Analyst	Method	Qualifier
2,3,4,6-Tetrachlorophenol	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Ametryne	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Atraton	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Atrazine	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Azinphos-methyl	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Bolstar	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Bromacil	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Carbophenothion	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Chlorpyrifos	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Coumaphos	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Demeton	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Diazinon	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Dichlorvos	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Dimethenamid	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Dimethoate	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Disulfoton	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
EPN	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Ethoprop	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Ethyl parathion	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Fensulfothion	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Fenthion	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Hexachlorphene	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Hexazinone	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Malathion	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Merphos	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Methyl parathion	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Mevinphos	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Naled	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Pentachlorophenol	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Phorate	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Phosmet	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Prometon	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Prometryn	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Propazine	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Ronnel	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595
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Attn: MARVIN D HESKETT III

Batch #: 111020054
Project Name: HUJ0059

Analytical Results Report

Sample Number	111020054-001	**Sampling Date**	10/12/2011	**Date/Time Received**	10/20/2011 12:26 PM
Client Sample ID	HUJ0059-01 (KSPMA2-DU-1 - SOLID/SOIL)			**Extraction Date**	10/21/2011
Matrix	Soil			**Sampling Time**	1:30 PM
Comments					

Parameter	Result	Units	MDL	PQL	Analysis Date	Analyst	Method	Qualifier
Secbumeton	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Simazine	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Simetryn	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Stirophos	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Sulfotep	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Terbuthylazine	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Terbutryn	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Tokuthion	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Trichloronate	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Trifluralin	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	

Surrogate Data

Sample Number 111020054-001

Surrogate Standard	Method	Percent Recovery	Control Limits
Terphenyl-d14	EPA 8270CMOD	96.9	30-140

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Attn: MARVIN D HESKETT III

Batch #: 111020054
Project Name: HUJ0059

Analytical Results Report

Sample Number	111020054-002	**Sampling Date**	10/12/2011	**Date/Time Received**	10/20/2011 12:26 PM
Client Sample ID	HUJ0059-02 (KSPMA2-DU-2 - SOLID/SOIL)			**Extraction Date**	10/21/2011
Matrix	Soil			**Sampling Time**	1:30 PM
Comments					

Parameter	Result	Units	MDL	PQL	Analysis Date	Analyst	Method	Qualifier
2,3,4,6-Tetrachlorophenol	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Ametryne	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Atraton	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Atrazine	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Azinphos-methyl	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Bolstar	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Bromacil	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Carbophenothion	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Chlorpyrifos	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Coumaphos	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Demeton	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Diazinon	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Dichlorvos	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Dimethenamid	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Dimethoate	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Disulfoton	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
EPN	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Ethoprop	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Ethyl parathion	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Fensulfothion	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Fenthion	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Hexachlorphene	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Hexazinone	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Malathion	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Merphos	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Methyl parathion	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Mevinphos	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Naled	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Pentachlorophenol	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Phorate	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Phosmet	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Prometon	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Prometryn	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Propazine	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Ronnel	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Secbumeton	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Simazine	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C585; MT:Cert0095

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Client: TEST AMERICA - HONOLULU, HI
Address: 99-193 AIEA HEIGHTS DRIVE
AIEA, HI 96701-3900
Attn: MARVIN D HESKETT III

Batch #: 111020054
Project Name: HUJ0059

Analytical Results Report

Sample Number	111020054-002	**Sampling Date**	10/12/2011	**Date/Time Received**	10/20/2011 12:26 PM
Client Sample ID	HUJ0059-02 (KSPMA2-DU-2 - SOLID/SOIL)			**Extraction Date**	10/21/2011
Matrix	Soil			**Sampling Time**	1:30 PM
Comments					

Parameter	Result	Units	MDL	PQL	Analysis Date	Analyst	Method	Qualifier
Simetryn	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Stirophos	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Sulfotep	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Terbuthylazine	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Terbutryn	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Tokuthion	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Trichloronate	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Trifluralin	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	

Surrogate Data

Sample Number 111020054-002

Surrogate Standard	Method	Percent Recovery	Control Limits
Terphenyl-d14	EPA 8270CMOD	97.9	30-140

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Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C585; MT:Cert0095

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Address: 99-193 AIEA HEIGHTS DRIVE
AIEA, HI 96701-3900
Attn: MARVIN D HESKETT III

Batch #: 111020054
Project Name: HUJ0059

Analytical Results Report

Sample Number	111020054-003	**Sampling Date**	10/12/2011	**Date/Time Received**	10/20/2011 12:26 PM
Client Sample ID	HUJ0059-03 (KSPMA2-DU-3 - SOLID/SOIL)			**Extraction Date**	10/21/2011
Matrix	Soil			**Sampling Time**	1:30 PM
Comments					

Parameter	Result	Units	MDL	PQL	Analysis Date	Analyst	Method	Qualifier
2,3,4,6-Tetrachlorophenol	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Ametryne	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Atraton	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Atrazine	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Azinphos-methyl	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Bolstar	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Bromacil	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Carbophenothion	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Chlorpyrifos	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Coumaphos	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Demeton	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Diazinon	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Dichlorvos	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Dimethenamid	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Dimethoate	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Disulfoton	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
EPN	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Ethoprop	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Ethyl parathion	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Fensulfothion	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Fenthion	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Hexachlorphene	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Hexazinone	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Malathion	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Merphos	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Methyl parathion	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Mevinphos	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Naled	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Pentachlorophenol	0.13	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Phorate	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Phosmet	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Prometon	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Prometryn	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Propazine	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Ronnel	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Secbumeton	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Simazine	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595
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Address: 99-193 AIEA HEIGHTS DRIVE
AIEA, HI 96701-3900
Attn: MARVIN D HESKETT III

Batch #: 111020054
Project Name: HUJ0059

Analytical Results Report

Sample Number	111020054-003	**Sampling Date**	10/12/2011	**Date/Time Received**	10/20/2011 12:26 PM
Client Sample ID	HUJ0059-03 (KSPMA2-DU-3 - SOLID/SOIL)			**Extraction Date**	10/21/2011
Matrix	Soil			**Sampling Time**	1:30 PM
Comments					

Parameter	Result	Units	MDL	PQL	Analysis Date	Analyst	Method	Qualifier
Simetryn	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Stirophos	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Sulfotep	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Terbuthylazine	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Terbutryn	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Tokuthion	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Trichloronate	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	
Trifluralin	ND	mg/kg	0.05	0.1	11/1/2011	EMP	EPA 8270CMOD	

Surrogate Data

Sample Number 111020054-003

Surrogate Standard	Method	Percent Recovery	Control Limits
Terphenyl-d14	EPA 8270CMOD	30.9	30-140

Authorized Signature

John Coddington, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

This report shall not be reproduced except in full, without the written approval of the laboratory.
The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

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Batch #: 111020054
Project Name: HUJ0059

Analytical Results Report

Quality Control Data

Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
Trifluralin	0.64	mg/kg	1	64.0	40-150	10/21/2011	11/1/2011
Terbutryn	0.88	mg/kg	1	88.0	40-150	10/21/2011	11/1/2011
Terbuthylazine	0.84	mg/kg	1	84.0	40-150	10/21/2011	11/1/2011
Simetryn	0.91	mg/kg	1	91.0	40-150	10/21/2011	11/1/2011
Simazine	1.26	mg/kg	1	126.0	40-150	10/21/2011	11/1/2011
Secbumeton	0.84	mg/kg	1	84.0	40-150	10/21/2011	11/1/2011
Propazine	0.85	mg/kg	1	85.0	40-150	10/21/2011	11/1/2011
Prometon	0.88	mg/kg	1	88.0	40-150	10/21/2011	11/1/2011
Pentachlorophenol	0.74	mg/kg	1	74.0	20-150	10/21/2011	11/1/2011
Hexazinone	0.95	mg/kg	1	95.0	20-120	10/21/2011	11/1/2011
Diazinon	0.86	mg/kg	1	86.0	20-120	10/21/2011	11/1/2011
Bromacil	0.88	mg/kg	1	88.0	20-120	10/21/2011	11/1/2011
Atrazine	0.82	mg/kg	1	82.0	40-150	10/21/2011	11/1/2011
Atraton	0.87	mg/kg	1	87.0	40-150	10/21/2011	11/1/2011
Ametryne	0.85	mg/kg	1	85.0	20-120	10/21/2011	11/1/2011

Matrix Spike

Sample Number	Parameter	Sample Result	MS Result	Units	MS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
111020054-001	Trifluralin	ND	0.62	mg/kg	1	62.0	40-150	10/21/2011	11/1/2011
111020054-001	Terbutryn	ND	0.79	mg/kg	1	79.0	40-150	10/21/2011	11/1/2011
111020054-001	Terbuthylazine	ND	0.88	mg/kg	1	88.0	40-150	10/21/2011	11/1/2011
111020054-001	Simetryn	ND	0.76	mg/kg	1	76.0	40-150	10/21/2011	11/1/2011
111020054-001	Simazine	ND	1.31	mg/kg	1	131.0	40-150	10/21/2011	11/1/2011
111020054-001	Secbumeton	ND	0.77	mg/kg	1	77.0	40-150	10/21/2011	11/1/2011
111020054-001	Propazine	ND	0.87	mg/kg	1	87.0	40-150	10/21/2011	11/1/2011
111020054-001	Prometon	ND	0.84	mg/kg	1	84.0	40-150	10/21/2011	11/1/2011
111020054-001	Pentachlorophenol	ND	0.62	mg/kg	1	62.0	20-150	10/21/2011	11/1/2011
111020054-001	Hexazinone	ND	0.90	mg/kg	1	90.0	20-120	10/21/2011	11/1/2011
111020054-001	Diazinon	ND	0.88	mg/kg	1	88.0	20-120	10/21/2011	11/1/2011
111020054-001	Bromacil	ND	0.88	mg/kg	1	88.0	20-120	10/21/2011	11/1/2011
111020054-001	Atrazine	ND	0.83	mg/kg	1	83.0	40-150	10/21/2011	11/1/2011
111020054-001	Atraton	ND	0.77	mg/kg	1	77.0	40-150	10/21/2011	11/1/2011
111020054-001	Ametryne	ND	0.82	mg/kg	1	82.0	20-120	10/21/2011	11/1/2011

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595
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AIEA, HI 96701-3900
Attn: MARVIN D HESKETT III

Batch #: 111020054
Project Name: HUJ0059

Analytical Results Report

Quality Control Data

Matrix Spike Duplicate

Parameter	MSD Result	Units	MSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
Trifluralin	0.67	mg/kg	1	67.0	7.8	0-50	10/21/2011	11/1/2011
Terbutryn	0.87	mg/kg	1	87.0	9.6	0-50	10/21/2011	11/1/2011
Terbuthylazine	0.93	mg/kg	1	93.0	5.5	0-50	10/21/2011	11/1/2011
Simetryn	0.83	mg/kg	1	83.0	8.8	0-50	10/21/2011	11/1/2011
Simazine	1.43	mg/kg	1	143.0	8.8	0-50	10/21/2011	11/1/2011
Secbumeton	0.81	mg/kg	1	81.0	5.1	0-50	10/21/2011	11/1/2011
Propazine	0.93	mg/kg	1	93.0	6.7	0-50	10/21/2011	11/1/2011
Prometon	0.90	mg/kg	1	90.0	6.9	0-50	10/21/2011	11/1/2011
Pentachlorophenol	0.86	mg/kg	1	86.0	32.4	0-50	10/21/2011	11/1/2011
Hexazinone	0.97	mg/kg	1	97.0	7.5	0-50	10/21/2011	11/1/2011
Diazinon	0.93	mg/kg	1	93.0	5.5	0-50	10/21/2011	11/1/2011
Bromacil	0.91	mg/kg	1	91.0	3.4	0-50	10/21/2011	11/1/2011
Atrazine	0.94	mg/kg	1	94.0	12.4	0-50	10/21/2011	11/1/2011
Atraton	0.86	mg/kg	1	86.0	11.0	0-50	10/21/2011	11/1/2011
Ametryne	0.91	mg/kg	1	91.0	10.4	0-50	10/21/2011	11/1/2011

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
2,3,4,6-Tetrachlorophenol	ND	mg/kg	0.1	10/21/2011	11/1/2011
Ametryne	ND	mg/kg	0.1	10/21/2011	11/1/2011
Atraton	ND	mg/kg	0.1	10/21/2011	11/1/2011
Atrazine	ND	mg/kg	0.1	10/21/2011	11/1/2011
Azinphos-methyl	ND	mg/kg	0.1	10/21/2011	11/1/2011
Bolstar	ND	mg/kg	0.1	10/21/2011	11/1/2011
Bromacil	ND	mg/kg	0.1	10/21/2011	11/1/2011
Carbophenothion	ND	mg/kg	0.1	10/21/2011	11/1/2011
Chlorpyrifos	ND	mg/kg	0.1	10/21/2011	11/1/2011
Coumaphos	ND	mg/kg	0.1	10/21/2011	11/1/2011
Demeton	ND	mg/kg	0.1	10/21/2011	11/1/2011
Diazinon	ND	mg/kg	0.1	10/21/2011	11/1/2011
Dichlorvos	ND	mg/kg	0.1	10/21/2011	11/1/2011
Dimethenamid	ND	mg/kg	0.1	10/21/2011	11/1/2011
Dimethoate	ND	mg/kg	0.1	10/21/2011	11/1/2011
Disulfoton	ND	mg/kg	0.1	10/21/2011	11/1/2011
EPN	ND	mg/kg	0.1	10/21/2011	11/1/2011
Ethoprop	ND	mg/kg	0.1	10/21/2011	11/1/2011

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595
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Address: 99-193 AIEA HEIGHTS DRIVE
AIEA, HI 96701-3900
Attn: MARVIN D HESKETT III

Batch #: 111020054
Project Name: HUJ0059

Analytical Results Report

Quality Control Data

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
Ethyl parathion	ND	mg/kg	0.1	10/21/2011	11/1/2011
Fensulfothion	ND	mg/kg	0.1	10/21/2011	11/1/2011
Fenthion	ND	mg/kg	0.1	10/21/2011	11/1/2011
Hexachlorphene	ND	mg/kg	0.1	10/21/2011	11/1/2011
Hexazinone	ND	mg/kg	0.1	10/21/2011	11/1/2011
Malathion	ND	mg/kg	0.1	10/21/2011	11/1/2011
Merphos	ND	mg/kg	0.1	10/21/2011	11/1/2011
Methyl parathion	ND	mg/kg	0.1	10/21/2011	11/1/2011
Mevinphos	ND	mg/kg	0.1	10/21/2011	11/1/2011
Naled	ND	mg/kg	0.1	10/21/2011	11/1/2011
Pentachlorophenol	ND	mg/kg	0.1	10/21/2011	11/1/2011
Phorate	ND	mg/kg	0.1	10/21/2011	11/1/2011
Phosmet	ND	mg/kg	0.1	10/21/2011	11/1/2011
Prometon	ND	mg/kg	0.1	10/21/2011	11/1/2011
Prometryn	ND	mg/kg	0.1	10/21/2011	11/1/2011
Propazine	ND	mg/kg	0.1	10/21/2011	11/1/2011
Ronnel	ND	mg/kg	0.1	10/21/2011	11/1/2011
Secbumeton	ND	mg/kg	0.1	10/21/2011	11/1/2011
Simazine	ND	mg/kg	0.1	10/21/2011	11/1/2011
Simetryn	ND	mg/kg	0.1	10/21/2011	11/1/2011
Stirophos	ND	mg/kg	0.1	10/21/2011	11/1/2011
Sulfotep	ND	mg/kg	0.1	10/21/2011	11/1/2011
Terbuthylazine	ND	mg/kg	0.1	10/21/2011	11/1/2011
Terbutryn	ND	mg/kg	0.1	10/21/2011	11/1/2011
Tokuthion	ND	mg/kg	0.1	10/21/2011	11/1/2011
Trichloronate	ND	mg/kg	0.1	10/21/2011	11/1/2011
Trifluralin	ND	mg/kg	0.1	10/21/2011	11/1/2011

AR	Acceptable Range
ND	Not Detected
PQL	Practical Quantitation Limit
RPD	Relative Percentage Difference

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C585; MT:Cert0095

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Client: TEST AMERICA - HONOLULU, HI
Address: 99-193 AIEA HEIGHTS DRIVE
AIEA, HI 96701-3900
Attn: MARVIN D HESKETT III

Batch #: 111020054
Project Name: HUJ0059

Analytical Results Report

Sample Number	111020054-001	**Sampling Date**	10/12/2011	**Date/Time Received**	10/20/2011 12:26 PM
Client Sample ID	HUJ0059-01 (KSPMA2-DU-1 - SOLID/SOIL)			**Extraction Date**	10/21/2011
Matrix	Soil			**Sampling Time**	1:30 PM
Comments					

Parameter	Result	Units	MDL	PQL	Analysis Date	Analyst	Method	Qualifier
1,2,4-Trichlorobenzene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
1,2-Dichlorobenzene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
1,2-Diphenyl hydrazine	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
1,3-Dichlorobenzene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
1,4-Dichlorobenzene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
1-Methylnaphthalene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
2,3,4,6-Tetrachlorophenol	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
2,3,5,6-Tetrachlorophenol	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
2,4,5-Trichlorophenol	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
2,4,6-Trichlorophenol	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
2,4-Dichlorophenol	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
2,4-Dimethylphenol	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
2,4-Dinitrophenol	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
2,4-Dinitrotoluene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
2,6-Dinitrotoluene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
2-Chloronaphthalene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
2-Chlorophenol	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
2-Methylnaphthalene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
2-Methylphenol	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
2-Nitroaniline	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
2-Nitrophenol	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
3,3'-Dichlorobenzidine	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
3+4-Methylphenol	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
3-Nitroaniline	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
4,6-Dinitro-2-methylphenol	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
4-Bromophenyl-phenylether	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
4-Chloro-3-methylphenol	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
4-Chloroaniline	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
4-Chlorophenyl-phenylether	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
4-Nitroaniline	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
4-Nitrophenol	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Acenaphthene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Acenaphthylene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Aniline	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C585; MT:Cert0095

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Client: TEST AMERICA - HONOLULU, HI
Address: 99-193 AIEA HEIGHTS DRIVE
AIEA, HI 96701-3900
Attn: MARVIN D HESKETT III

Batch #: 111020054
Project Name: HUJ0059

Analytical Results Report

Sample Number	111020054-001	**Sampling Date**	10/12/2011	**Date/Time Received**	10/20/2011 12:26 PM
Client Sample ID	HUJ0059-01 (KSPMA2-DU-1 - SOLID/SOIL)			**Extraction Date**	10/21/2011
Matrix	Soil			**Sampling Time**	1:30 PM
Comments					

Parameter	Result	Units	MDL	PQL	Analysis Date	Analyst	Method	Qualifier
Anthracene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Benzidine	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Benzo(ghi)perylene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Benzo[a]anthracene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Benzo[a]pyrene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Benzo[b]fluoranthene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Benzo[k]fluoranthene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Benzyl alcohol	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
bis(2-Chloroethoxy)methane	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
bis(2-Chloroethyl)ether	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
bis(2-chloroisopropyl)ether	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
bis(2-Ethylhexyl)phthalate	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Butylbenzylphthalate	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Carbazole	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Chrysene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Dibenz[a,h]anthracene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Dibenzofuran	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Diethylphthalate	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Dimethylphthalate	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Di-n-butylphthalate	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Di-n-octylphthalate	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Fluoranthene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Fluorene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Hexachlorobenzene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Hexachlorobutadiene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Hexachlorocyclopentadiene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Hexachloroethane	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Indeno[1,2,3-cd]pyrene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Isophorone	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Naphthalene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Nitrobenzene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Nitrosodimethylamine	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
n-Nitroso-di-n-propylamine	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
n-Nitrosodiphenylamine	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Pentachlorophenol	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595
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Client: TEST AMERICA - HONOLULU, HI
Address: 99-193 AIEA HEIGHTS DRIVE
AIEA, HI 96701-3900
Attn: MARVIN D HESKETT III

Batch #: 111020054
Project Name: HUJ0059

Analytical Results Report

Sample Number	111020054-001	**Sampling Date**	10/12/2011	**Date/Time Received**	10/20/2011 12:26 PM
Client Sample ID	HUJ0059-01 (KSPMA2-DU-1 - SOLID/SOIL)			**Extraction Date**	10/21/2011
Matrix	Soil			**Sampling Time**	1:30 PM
Comments					

Parameter	Result	Units	MDL	PQL	Analysis Date	Analyst	Method	Qualifier
Phenanthrene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Phenol	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Pyrene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Pyridine	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	

Surrogate Data

Sample Number 111020054-001

Surrogate Standard	Method	Percent Recovery	Control Limits
2,4,6-Tribromophenol	EPA 8270C	55.4	19-122
2-Fluorobiphenyl	EPA 8270C	79.6	30-115
2-Fluorophenol	EPA 8270C	70.5	25-121
Nitrobenzene-d5	EPA 8270C	50.3	17-112
Phenol-d5	EPA 8270C	76.1	24-113
Terphenyl-d14	EPA 8270C	87.6	18-137

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Client: TEST AMERICA - HONOLULU, HI
Address: 99-193 AIEA HEIGHTS DRIVE
AIEA, HI 96701-3900
Attn: MARVIN D HESKETT III

Batch #: 111020054
Project Name: HUJ0059

Analytical Results Report

Sample Number	111020054-002	**Sampling Date**	10/12/2011	**Date/Time Received**	10/20/2011 12:26 PM
Client Sample ID	HUJ0059-02 (KSPMA2-DU-2 - SOLID/SOIL)			**Extraction Date**	10/21/2011
Matrix	Soil			**Sampling Time**	1:30 PM
Comments					

Parameter	Result	Units	MDL	PQL	Analysis Date	Analyst	Method	Qualifier
1,2,4-Trichlorobenzene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
1,2-Dichlorobenzene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
1,2-Diphenyl hydrazine	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
1,3-Dichlorobenzene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
1,4-Dichlorobenzene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
1-Methylnaphthalene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
2,3,4,6-Tetrachlorophenol	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
2,3,5,6-Tetrachlorophenol	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
2,4,5-Trichlorophenol	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
2,4,6-Trichlorophenol	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
2,4-Dichlorophenol	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
2,4-Dimethylphenol	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
2,4-Dinitrophenol	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
2,4-Dinitrotoluene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
2,6-Dinitrotoluene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
2-Chloronaphthalene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
2-Chlorophenol	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
2-Methylnaphthalene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
2-Methylphenol	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
2-Nitroaniline	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
2-Nitrophenol	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
3,3'-Dichlorobenzidine	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
3+4-Methylphenol	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
3-Nitroaniline	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
4,6-Dinitro-2-methylphenol	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
4-Bromophenyl-phenylether	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
4-Chloro-3-methylphenol	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
4-Chloroaniline	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
4-Chlorophenyl-phenylether	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
4-Nitroaniline	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
4-Nitrophenol	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Acenaphthene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Acenaphthylene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Aniline	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Anthracene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C585; MT:Cert0095

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Address: 99-193 AIEA HEIGHTS DRIVE
AIEA, HI 96701-3900
Attn: MARVIN D HESKETT III

Batch #: 111020054
Project Name: HUJ0059

Analytical Results Report

Sample Number	111020054-002	**Sampling Date**	10/12/2011	**Date/Time Received**	10/20/2011 12:26 PM
Client Sample ID	HUJ0059-02 (KSPMA2-DU-2 - SOLID/SOIL)			**Extraction Date**	10/21/2011
Matrix	Soil			**Sampling Time**	1:30 PM
Comments					

Parameter	Result	Units	MDL	PQL	Analysis Date	Analyst	Method	Qualifier
Benzidine	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Benzo(ghi)perylene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Benzo[a]anthracene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Benzo[a]pyrene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Benzo[b]fluoranthene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Benzo[k]fluoranthene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Benzyl alcohol	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
bis(2-Chloroethoxy)methane	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
bis(2-Chloroethyl)ether	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
bis(2-chloroisopropyl)ether	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
bis(2-Ethylhexyl)phthalate	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Butylbenzylphthalate	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Carbazole	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Chrysene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Dibenz[a,h]anthracene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Dibenzofuran	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Diethylphthalate	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Dimethylphthalate	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Di-n-butylphthalate	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Di-n-octylphthalate	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Fluoranthene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Fluorene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Hexachlorobenzene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Hexachlorobutadiene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Hexachlorocyclopentadiene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Hexachloroethane	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Indeno[1,2,3-cd]pyrene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Isophorone	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Naphthalene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Nitrobenzene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Nitrosodimethylamine	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
n-Nitroso-di-n-propylamine	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
n-Nitrosodiphenylamine	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Pentachlorophenol	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Phenanthrene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C585; MT:Cert0095

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Client: TEST AMERICA - HONOLULU, HI
Address: 99-193 AIEA HEIGHTS DRIVE
AIEA, HI 96701-3900
Attn: MARVIN D HESKETT III

Batch #: 111020054
Project Name: HUJ0059

Analytical Results Report

Sample Number	111020054-002	**Sampling Date**	10/12/2011	**Date/Time Received**	10/20/2011 12:26 PM
Client Sample ID	HUJ0059-02 (KSPMA2-DU-2 - SOLID/SOIL)			**Extraction Date**	10/21/2011
Matrix	Soil			**Sampling Time**	1:30 PM
Comments					

Parameter	Result	Units	MDL	PQL	Analysis Date	Analyst	Method	Qualifier
Phenol	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Pyrene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Pyridine	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	

Surrogate Data

Sample Number 111020054-002

Surrogate Standard	Method	Percent Recovery	Control Limits
2,4,6-Tribromophenol	EPA 8270C	63.4	19-122
2-Fluorobiphenyl	EPA 8270C	74.2	30-115
2-Fluorophenol	EPA 8270C	76.0	25-121
Nitrobenzene-d5	EPA 8270C	49.8	17-112
Phenol-d5	EPA 8270C	86.2	24-113
Terphenyl-d14	EPA 8270C	85.4	18-137

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Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C585; MT:Cert0095

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AIEA, HI 96701-3900
Attn: MARVIN D HESKETT III

Batch #: 111020054
Project Name: HUJ0059

Analytical Results Report

Sample Number	111020054-003	**Sampling Date**	10/12/2011	**Date/Time Received**	10/20/2011 12:26 PM
Client Sample ID	HUJ0059-03 (KSPMA2-DU-3 - SOLID/SOIL)			**Extraction Date**	10/21/2011
Matrix	Soil			**Sampling Time**	1:30 PM
Comments					

Parameter	Result	Units	MDL	PQL	Analysis Date	Analyst	Method	Qualifier
1,2,4-Trichlorobenzene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
1,2-Dichlorobenzene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
1,2-Diphenyl hydrazine	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
1,3-Dichlorobenzene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
1,4-Dichlorobenzene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
1-Methylnaphthalene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
2,3,4,6-Tetrachlorophenol	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
2,3,5,6-Tetrachlorophenol	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
2,4,5-Trichlorophenol	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
2,4,6-Trichlorophenol	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
2,4-Dichlorophenol	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
2,4-Dimethylphenol	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
2,4-Dinitrophenol	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
2,4-Dinitrotoluene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
2,6-Dinitrotoluene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
2-Chloronaphthalene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
2-Chlorophenol	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
2-Methylnaphthalene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
2-Methylphenol	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
2-Nitroaniline	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
2-Nitrophenol	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
3,3'-Dichlorobenzidine	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
3+4-Methylphenol	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
3-Nitroaniline	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
4,6-Dinitro-2-methylphenol	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
4-Bromophenyl-phenylether	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
4-Chloro-3-methylphenol	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
4-Chloroaniline	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
4-Chlorophenyl-phenylether	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
4-Nitroaniline	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
4-Nitrophenol	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Acenaphthene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Acenaphthylene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Aniline	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Anthracene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	

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Address: 99-193 AIEA HEIGHTS DRIVE
AIEA, HI 96701-3900
Attn: MARVIN D HESKETT III

Batch #: 111020054
Project Name: HUJ0059

Analytical Results Report

Sample Number	111020054-003	**Sampling Date**	10/12/2011	**Date/Time Received**	10/20/2011 12:26 PM
Client Sample ID	HUJ0059-03 (KSPMA2-DU-3 - SOLID/SOIL)			**Extraction Date**	10/21/2011
Matrix	Soil			**Sampling Time**	1:30 PM
Comments					

Parameter	Result	Units	MDL	PQL	Analysis Date	Analyst	Method	Qualifier
Benzidine	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Benzo(ghi)perylene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Benzo[a]anthracene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Benzo[a]pyrene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Benzo[b]fluoranthene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Benzo[k]fluoranthene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Benzyl alcohol	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
bis(2-Chloroethoxy)methane	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
bis(2-Chloroethyl)ether	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
bis(2-chloroisopropyl)ether	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
bis(2-Ethylhexyl)phthalate	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Butylbenzylphthalate	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Carbazole	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Chrysene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Dibenz[a,h]anthracene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Dibenzofuran	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Diethylphthalate	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Dimethylphthalate	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Di-n-butylphthalate	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Di-n-octylphthalate	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Fluoranthene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Fluorene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Hexachlorobenzene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Hexachlorobutadiene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Hexachlorocyclopentadiene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Hexachloroethane	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Indeno[1,2,3-cd]pyrene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Isophorone	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Naphthalene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Nitrobenzene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Nitrosodimethylamine	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
n-Nitroso-di-n-propylamine	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
n-Nitrosodiphenylamine	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Pentachlorophenol	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Phenanthrene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	

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Address: 99-193 AIEA HEIGHTS DRIVE
AIEA, HI 96701-3900
Attn: MARVIN D HESKETT III

Batch #: 111020054
Project Name: HUJ0059

Analytical Results Report

Sample Number	111020054-003	**Sampling Date**	10/12/2011	**Date/Time Received**	10/20/2011 12:26 PM
Client Sample ID	HUJ0059-03 (KSPMA2-DU-3 - SOLID/SOIL)			**Extraction Date**	10/21/2011
Matrix	Soil			**Sampling Time**	1:30 PM
Comments					

Parameter	Result	Units	MDL	PQL	Analysis Date	Analyst	Method	Qualifier
Phenol	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Pyrene	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	
Pyridine	ND	mg/Kg	0.02	0.05	11/2/2011	EMP	EPA 8270C	

Surrogate Data

Sample Number 111020054-003

Surrogate Standard	Method	Percent Recovery	Control Limits
2,4,6-Tribromophenol	EPA 8270C	20.9	19-122
2-Fluorobiphenyl	EPA 8270C	37.1	30-115
2-Fluorophenol	EPA 8270C	31.0	25-121
Nitrobenzene-d5	EPA 8270C	30.6	17-112
Phenol-d5	EPA 8270C	42.5	24-113
Terphenyl-d14	EPA 8270C	22.7	18-137

Authorized Signature

John Coddington, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

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The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

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Batch #: 111020054
Project Name: HUJ0059

Analytical Results Report

Quality Control Data

Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
Pyrene	1.06	mg/kg	1	106.0	47-142	10/21/2011	11/2/2011
Phenol	1.31	mg/kg	1	131.0	64-131	10/21/2011	11/2/2011
Pentachlorophenol	0.57	mg/kg	1	57.0	9-134	10/21/2011	11/2/2011
n-Nitroso-di-n-propylamine	1.10	mg/kg	1	110.0	68-128	10/21/2011	11/2/2011
bis(2-Ethylhexyl)phthalate	1.08	mg/kg	1	108.0	73-178	10/21/2011	11/2/2011
Acenaphthene	1.05	mg/kg	1	105.0	52-143	10/21/2011	11/2/2011
4-Nitrophenol	1.02	mg/kg	1	102.0	34-122	10/21/2011	11/2/2011
4-Chloro-3-methylphenol	1.04	mg/kg	1	104.0	64-134	10/21/2011	11/2/2011
2-Chlorophenol	0.99	mg/kg	1	99.0	70-116	10/21/2011	11/2/2011
2,4-Dinitrotoluene	1.02	mg/kg	1	102.0	63-125	10/21/2011	11/2/2011
1,4-Dichlorobenzene	1.02	mg/kg	1	102.0	13-140	10/21/2011	11/2/2011
1,2,4-Trichlorobenzene	0.94	mg/kg	1	94.0	41-136	10/21/2011	11/2/2011

Matrix Spike

Sample Number	Parameter	Sample Result	MS Result	Units	MS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
111020054-001	Pyrene	ND	1.01	mg/kg	1	101.0	47-142	10/21/2011	11/2/2011
111020054-001	Phenol	ND	1.17	mg/kg	1	117.0	64-131	10/21/2011	11/2/2011
111020054-001	Pentachlorophenol	ND	0.44	mg/kg	1	44.0	9-134	10/21/2011	11/2/2011
111020054-001	n-Nitroso-di-n-propylamine	ND	1.11	mg/kg	1	111.0	68-128	10/21/2011	11/2/2011
111020054-001	bis(2-Ethylhexyl)phthalate	ND	1.10	mg/kg	1	110.0	73-178	10/21/2011	11/2/2011
111020054-001	Acenaphthene	ND	1.07	mg/kg	1	107.0	52-143	10/21/2011	11/2/2011
111020054-001	4-Nitrophenol	ND	0.96	mg/kg	1	96.0	34-122	10/21/2011	11/2/2011
111020054-001	4-Chloro-3-methylphenol	ND	0.93	mg/kg	1	93.0	64-134	10/21/2011	11/2/2011
111020054-001	2-Chlorophenol	ND	0.96	mg/kg	1	96.0	70-116	10/21/2011	11/2/2011
111020054-001	2,4-Dinitrotoluene	ND	0.95	mg/kg	1	95.0	63-125	10/21/2011	11/2/2011
111020054-001	1,4-Dichlorobenzene	ND	1.05	mg/kg	1	105.0	13-140	10/21/2011	11/2/2011
111020054-001	1,2,4-Trichlorobenzene	ND	0.98	mg/kg	1	98.0	41-136	10/21/2011	11/2/2011

Matrix Spike Duplicate

Parameter	MSD Result	Units	MSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
Pyrene	1.08	mg/kg	1	108.0	6.7	0-36	10/21/2011	11/2/2011
Phenol	1.28	mg/kg	1	128.0	9.0	0-35	10/21/2011	11/2/2011

Comments:

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AIEA, HI 96701-3900
Attn: MARVIN D HESKETT III

Batch #: 111020054
Project Name: HUJ0059

Analytical Results Report

Quality Control Data

Matrix Spike Duplicate

Parameter	MSD Result	Units	MSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
Pentachlorophenol	0.52	mg/kg	1	52.0	16.7	0-47	10/21/2011	11/2/2011
n-Nitroso-di-n-propylamine	1.20	mg/kg	1	120.0	7.8	0-38	10/21/2011	11/2/2011
bis(2-Ethylhexyl)phthalate	1.17	mg/kg	1	117.0	6.2	0-50	10/21/2011	11/2/2011
Acenaphthene	1.09	mg/kg	1	109.0	1.9	0-19	10/21/2011	11/2/2011
4-Nitrophenol	0.99	mg/kg	1	99.0	3.1	0-50	10/21/2011	11/2/2011
4-Chloro-3-methylphenol	1.11	mg/kg	1	111.0	17.6	0-33	10/21/2011	11/2/2011
2-Chlorophenol	1.06	mg/kg	1	106.0	9.9	0-50	10/21/2011	11/2/2011
2,4-Dinitrotoluene	1.04	mg/kg	1	104.0	9.0	0-47	10/21/2011	11/2/2011
1,4-Dichlorobenzene	1.08	mg/kg	1	108.0	2.8	0-27	10/21/2011	11/2/2011
1,2,4-Trichlorobenzene	1.00	mg/kg	1	100.0	2.0	0-24	10/21/2011	11/2/2011

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
1,2,4-Trichlorobenzene	ND	mg/Kg	0.05	10/21/2011	11/2/2011
1,2-Dichlorobenzene	ND	mg/Kg	0.05	10/21/2011	11/2/2011
1,2-Diphenyl hydrazine	ND	mg/Kg	0.05	10/21/2011	11/2/2011
1,3-Dichlorobenzene	ND	mg/Kg	0.05	10/21/2011	11/2/2011
1,4-Dichlorobenzene	ND	mg/Kg	0.05	10/21/2011	11/2/2011
1-Methylnaphthalene	ND	mg/Kg	0.05	10/21/2011	11/2/2011
2,3,4,6-Tetrachlorophenol	ND	mg/Kg	0.05	10/21/2011	11/2/2011
2,3,5,6-Tetrachlorophenol	ND	mg/Kg	0.05	10/21/2011	11/2/2011
2,4,5-Trichlorophenol	ND	mg/Kg	0.05	10/21/2011	11/2/2011
2,4,6-Trichlorophenol	ND	mg/Kg	0.05	10/21/2011	11/2/2011
2,4-Dichlorophenol	ND	mg/Kg	0.05	10/21/2011	11/2/2011
2,4-Dimethylphenol	ND	mg/Kg	0.05	10/21/2011	11/2/2011
2,4-Dinitrophenol	ND	mg/Kg	0.05	10/21/2011	11/2/2011
2,4-Dinitrotoluene	ND	mg/Kg	0.05	10/21/2011	11/2/2011
2,6-Dinitrotoluene	ND	mg/Kg	0.05	10/21/2011	11/2/2011
2-Chloronaphthalene	ND	mg/Kg	0.05	10/21/2011	11/2/2011
2-Chlorophenol	ND	mg/Kg	0.05	10/21/2011	11/2/2011
2-Methylnaphthalene	ND	mg/Kg	0.05	10/21/2011	11/2/2011
2-Methylphenol	ND	mg/Kg	0.05	10/21/2011	11/2/2011
2-Nitroaniline	ND	mg/Kg	0.05	10/21/2011	11/2/2011
2-Nitrophenol	ND	mg/Kg	0.05	10/21/2011	11/2/2011
3,3'-Dichlorobenzidine	ND	mg/Kg	0.05	10/21/2011	11/2/2011
3+4-Methylphenol	ND	mg/Kg	0.05	10/21/2011	11/2/2011

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C585; MT:Cert0095

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Client: TEST AMERICA - HONOLULU, HI
Address: 99-193 AIEA HEIGHTS DRIVE
AIEA, HI 96701-3900
Attn: MARVIN D HESKETT III

Batch #: 111020054
Project Name: HUJ0059

Analytical Results Report

Quality Control Data

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
3-Nitroaniline	ND	mg/Kg	0.05	10/21/2011	11/2/2011
4,6-Dinitro-2-methylphenol	ND	mg/Kg	0.05	10/21/2011	11/2/2011
4-Bromophenyl-phenylether	ND	mg/Kg	0.05	10/21/2011	11/2/2011
4-Chloro-3-methylphenol	ND	mg/Kg	0.05	10/21/2011	11/2/2011
4-Chloroaniline	ND	mg/Kg	0.05	10/21/2011	11/2/2011
4-Chlorophenyl-phenylether	ND	mg/Kg	0.05	10/21/2011	11/2/2011
4-Nitroaniline	ND	mg/Kg	0.05	10/21/2011	11/2/2011
4-Nitrophenol	ND	mg/Kg	0.05	10/21/2011	11/2/2011
Acenaphthene	ND	mg/Kg	0.05	10/21/2011	11/2/2011
Acenaphthylene	ND	mg/Kg	0.05	10/21/2011	11/2/2011
Aniline	ND	mg/Kg	0.05	10/21/2011	11/2/2011
Anthracene	ND	mg/Kg	0.05	10/21/2011	11/2/2011
Benzidine	ND	mg/Kg	0.05	10/21/2011	11/2/2011
Benzo(ghi)perylene	ND	mg/Kg	0.05	10/21/2011	11/2/2011
Benzo[a]anthracene	ND	mg/Kg	0.05	10/21/2011	11/2/2011
Benzo[a]pyrene	ND	mg/Kg	0.05	10/21/2011	11/2/2011
Benzo[b]fluoranthene	ND	mg/Kg	0.05	10/21/2011	11/2/2011
Benzo[k]fluoranthene	ND	mg/Kg	0.05	10/21/2011	11/2/2011
Benzyl alcohol	ND	mg/Kg	0.05	10/21/2011	11/2/2011
bis(2-Chloroethoxy)methane	ND	mg/Kg	0.05	10/21/2011	11/2/2011
bis(2-Chloroethyl)ether	ND	mg/Kg	0.05	10/21/2011	11/2/2011
bis(2-chloroisopropyl)ether	ND	mg/Kg	0.05	10/21/2011	11/2/2011
bis(2-Ethylhexyl)phthalate	ND	mg/Kg	0.05	10/21/2011	11/2/2011
Butylbenzylphthalate	ND	mg/Kg	0.05	10/21/2011	11/2/2011
Carbazole	ND	mg/Kg	0.05	10/21/2011	11/2/2011
Chrysene	ND	mg/Kg	0.05	10/21/2011	11/2/2011
Dibenz[a,h]anthracene	ND	mg/Kg	0.05	10/21/2011	11/2/2011
Dibenzofuran	ND	mg/Kg	0.05	10/21/2011	11/2/2011
Diethylphthalate	ND	mg/Kg	0.05	10/21/2011	11/2/2011
Dimethylphthalate	ND	mg/Kg	0.05	10/21/2011	11/2/2011
Di-n-butylphthalate	ND	mg/Kg	0.05	10/21/2011	11/2/2011
Di-n-octylphthalate	ND	mg/Kg	0.05	10/21/2011	11/2/2011
Fluoranthene	ND	mg/Kg	0.05	10/21/2011	11/2/2011
Fluorene	ND	mg/Kg	0.05	10/21/2011	11/2/2011
Hexachlorobenzene	ND	mg/Kg	0.05	10/21/2011	11/2/2011
Hexachlorobutadiene	ND	mg/Kg	0.05	10/21/2011	11/2/2011
Hexachlorocyclopentadiene	ND	mg/Kg	0.05	10/21/2011	11/2/2011

Comments:

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Client: TEST AMERICA - HONOLULU, HI
Address: 99-193 AIEA HEIGHTS DRIVE
AIEA, HI 96701-3900
Attn: MARVIN D HESKETT III

Batch #: 111020054
Project Name: HUJ0059

Analytical Results Report

Quality Control Data

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
Hexachloroethane	ND	mg/Kg	0.05	10/21/2011	11/2/2011
Indeno[1,2,3-cd]pyrene	ND	mg/Kg	0.05	10/21/2011	11/2/2011
Isophorone	ND	mg/Kg	0.05	10/21/2011	11/2/2011
Naphthalene	ND	mg/Kg	0.05	10/21/2011	11/2/2011
Nitrobenzene	ND	mg/Kg	0.05	10/21/2011	11/2/2011
Nitrosodimethylamine	ND	mg/Kg	0.05	10/21/2011	11/2/2011
n-Nitroso-di-n-propylamine	ND	mg/Kg	0.05	10/21/2011	11/2/2011
n-Nitrosodiphenylamine	ND	mg/Kg	0.05	10/21/2011	11/2/2011
Pentachlorophenol	ND	mg/Kg	0.05	10/21/2011	11/2/2011
Phenanthrene	ND	mg/Kg	0.05	10/21/2011	11/2/2011
Phenol	ND	mg/Kg	0.05	10/21/2011	11/2/2011
Pyrene	ND	mg/Kg	0.05	10/21/2011	11/2/2011
Pyridine	ND	mg/Kg	0.05	10/21/2011	11/2/2011

AR Acceptable Range
ND Not Detected
PQL Practical Quantitation Limit
RPD Relative Percentage Difference

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595
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Address: 99-193 AIEA HEIGHTS DRIVE
AIEA, HI 96701-3900
Attn: MARVIN D HESKETT III

Batch #: 111020054
Project Name: HUJ0059

Analytical Results Report

Sample Number	111020054-001	**Sampling Date**	10/12/2011	**Date/Time Received**	10/20/2011 12:26 PM
Client Sample ID	HUJ0059-01 (KSPMA2-DU-1 - SOLID/SOIL)			**Extraction Date**	10/26/2011
Matrix	Soil			**Sampling Time**	1:30 PM
Comments					

Parameter	Result	Units	MDL	PQL	Analysis Date	Analyst	Method	Qualifier
Bromacil	ND	mg/kg	0.05	0.1	10/27/2011	TGT	EPA 8321A	
Diuron	ND	mg/kg	0.05	0.1	10/27/2011	TGT	EPA 8321A	
Fenuron	ND	mg/kg	0.05	0.1	10/27/2011	TGT	EPA 8321A	
Linuron	ND	mg/kg	0.05	0.1	10/27/2011	TGT	EPA 8321A	
Monuron	ND	mg/kg	0.05	0.1	10/27/2011	TGT	EPA 8321A	
Neburon	ND	mg/kg	0.05	0.1	10/27/2011	TGT	EPA 8321A	
Propiconazole	ND	mg/kg	0.01	0.05	10/27/2011	TGT	EPA 8321A	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595
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Address: 99-193 AIEA HEIGHTS DRIVE
AIEA, HI 96701-3900
Attn: MARVIN D HESKETT III

Batch #: 111020054
Project Name: HUJ0059

Analytical Results Report

Sample Number 111020054-002 **Sampling Date** 10/12/2011 **Date/Time Received** 10/20/2011 12:26 PM
Client Sample ID HUJ0059-02 (KSPMA2-DU-2 - SOLID/SOIL) **Extraction Date** 10/26/2011
Matrix Soil **Sampling Time** 1:30 PM
Comments

Parameter	Result	Units	MDL	PQL	Analysis Date	Analyst	Method	Qualifier
Bromacil	ND	mg/kg	0.05	0.1	10/27/2011	TGT	EPA 8321A	
Diuron	ND	mg/kg	0.05	0.1	10/27/2011	TGT	EPA 8321A	
Fenuron	ND	mg/kg	0.05	0.1	10/27/2011	TGT	EPA 8321A	
Linuron	ND	mg/kg	0.05	0.1	10/27/2011	TGT	EPA 8321A	
Monuron	ND	mg/kg	0.05	0.1	10/27/2011	TGT	EPA 8321A	
Neburon	ND	mg/kg	0.05	0.1	10/27/2011	TGT	EPA 8321A	
Propiconazole	ND	mg/kg	0.01	0.05	10/27/2011	TGT	EPA 8321A	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595
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Address: 99-193 AIEA HEIGHTS DRIVE
AIEA, HI 96701-3900
Attn: MARVIN D HESKETT III

Batch #: 111020054
Project Name: HUJ0059

Analytical Results Report

Sample Number 111020054-003 **Sampling Date** 10/12/2011 **Date/Time Received** 10/20/2011 12:26 PM
Client Sample ID HUJ0059-03 (KSPMA2-DU-3 - SOLID/SOIL) **Extraction Date** 10/26/2011
Matrix Soil **Sampling Time** 1:30 PM
Comments

Parameter	Result	Units	MDL	PQL	Analysis Date	Analyst	Method	Qualifier
Bromacil	ND	mg/kg	0.05	0.1	10/27/2011	TGT	EPA 8321A	
Diuron	ND	mg/kg	0.05	0.1	10/27/2011	TGT	EPA 8321A	
Fenuron	ND	mg/kg	0.05	0.1	10/27/2011	TGT	EPA 8321A	
Linuron	ND	mg/kg	0.05	0.1	10/27/2011	TGT	EPA 8321A	
Monuron	ND	mg/kg	0.05	0.1	10/27/2011	TGT	EPA 8321A	
Neburon	ND	mg/kg	0.05	0.1	10/27/2011	TGT	EPA 8321A	
Propiconazole	ND	mg/kg	0.01	0.05	10/27/2011	TGT	EPA 8321A	

Authorized Signature

John Coddington, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

This report shall not be reproduced except in full, without the written approval of the laboratory.
The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595
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AIEA, HI 96701-3900
Attn: MARVIN D HESKETT III

Batch #: 111020054
Project Name: HUJ0059

Analytical Results Report

Quality Control Data

Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
Propiconazole	0.0948	mg/L	0.1	94.8	60-130	10/26/2011	10/27/2011
Neburon	0.0997	mg/L	0.1	99.7	60-130	10/26/2011	10/27/2011
Monuron	0.106	mg/L	0.1	106.0	60-130	10/26/2011	10/27/2011
Linuron	0.0879	mg/L	0.1	87.9	60-130	10/26/2011	10/27/2011
Fenuron	0.104	mg/L	0.1	104.0	60-130	10/26/2011	10/27/2011
Diuron	0.0916	mg/L	0.1	91.6	60-130	10/26/2011	10/27/2011
Bromacil	0.0919	mg/L	0.1	91.9	60-130	10/26/2011	10/27/2011

Matrix Spike

Sample Number	Parameter	Sample Result	MS Result	Units	MS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
111020054-001	Propiconazole	ND	0.200	mg/kg	0.15	133.3	40-150	10/26/2011	10/27/2011
111020054-001	Neburon	ND	0.196	mg/kg	0.15	130.7	40-150	10/26/2011	10/27/2011
111020054-001	Monuron	ND	0.169	mg/kg	0.15	112.7	40-150	10/26/2011	10/27/2011
111020054-001	Linuron	ND	0.162	mg/kg	0.15	108.0	40-150	10/26/2011	10/27/2011
111020054-001	Fenuron	ND	0.107	mg/kg	0.15	71.3	40-150	10/26/2011	10/27/2011
111020054-001	Diuron	ND	0.181	mg/kg	0.15	120.7	40-150	10/26/2011	10/27/2011
111020054-001	Bromacil	ND	0.198	mg/kg	0.15	132.0	40-150	10/26/2011	10/27/2011

Matrix Spike Duplicate

Parameter	MSD Result	Units	MSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
Propiconazole	0.189	mg/kg	0.15	126.0	5.7	0-25	10/26/2011	10/27/2011
Neburon	0.172	mg/kg	0.15	114.7	13.0	0-25	10/26/2011	10/27/2011
Monuron	0.160	mg/kg	0.15	106.7	5.5	0-25	10/26/2011	10/27/2011
Linuron	0.163	mg/kg	0.15	108.7	0.6	0-25	10/26/2011	10/27/2011
Fenuron	0.106	mg/kg	0.15	70.7	0.9	0-25	10/26/2011	10/27/2011
Diuron	0.162	mg/kg	0.15	108.0	11.1	0-25	10/26/2011	10/27/2011
Bromacil	0.191	mg/kg	0.15	127.3	3.6	0-25	10/26/2011	10/27/2011

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
Bromacil	ND	mg/kg	0.1	10/26/2011	10/27/2011

Comments:

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Client: TEST AMERICA - HONOLULU, HI
Address: 99-193 AIEA HEIGHTS DRIVE
AIEA, HI 96701-3900
Attn: MARVIN D HESKETT III

Batch #: 111020054
Project Name: HUJ0059

Analytical Results Report

Quality Control Data

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
Diuron	ND	mg/kg	0.1	10/26/2011	10/27/2011
Fenuron	ND	mg/kg	0.1	10/26/2011	10/27/2011
Linuron	ND	mg/kg	0.1	10/26/2011	10/27/2011
Monuron	ND	mg/kg	0.1	10/26/2011	10/27/2011
Neburon	ND	mg/kg	0.1	10/26/2011	10/27/2011
Propiconazole	ND	mg/kg	0.05	10/26/2011	10/27/2011

AR	Acceptable Range
ND	Not Detected
PQL	Practical Quantitation Limit
RPD	Relative Percentage Difference

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595
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Login Report

Customer Name: TEST AMERICA - HONOLULU, HI
99-193 AIEA HEIGHTS DRIVE
AIEA HI 96701-3900

Order ID: 111020054
Order Date: 10/20/2011

Contact Name: MARVIN D HESKETT III
Project Name: HUJ0059
Comment:

Sample #: 111020054-001 **Customer Sample #:** HUJ0059-01 (KSPMA2-DU-1 - SOLID/SOIL)

Recv'd: ☑ **Collector:** **Date Collected:** 10/12/2011
Quantity: 12 **Matrix:** Soil **Date Received:** 10/20/2011 12:26:00
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	11/1/2011	***Normal (6-10 Days)***
HERBICIDES	M	EPA 8151A	11/1/2011	***Normal (6-10 Days)***
PEST SCREEN TAHH 8270	M	EPA 8270CMOD	11/1/2011	***Normal (6-10 Days)***
SEMIVOLATILES 8270	M	EPA 8270C	11/1/2011	***Normal (6-10 Days)***
SEMIVOLATILES MISC LC/MS/MS	M	EPA 8321A	11/1/2011	***Normal (6-10 Days)***

Sample #: 111020054-002 **Customer Sample #:** HUJ0059-02 (KSPMA2-DU-2 - SOLID/SOIL)

Recv'd: ☑ **Collector:** **Date Collected:** 10/12/2011
Quantity: 12 **Matrix:** Soil **Date Received:** 10/20/2011 12:26:00
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	11/1/2011	***Normal (6-10 Days)***
HERBICIDES	M	EPA 8151A	11/1/2011	***Normal (6-10 Days)***
PEST SCREEN TAHH 8270	M	EPA 8270CMOD	11/1/2011	***Normal (6-10 Days)***
SEMIVOLATILES 8270	M	EPA 8270C	11/1/2011	***Normal (6-10 Days)***
SEMIVOLATILES MISC LC/MS/MS	M	EPA 8321A	11/1/2011	***Normal (6-10 Days)***

Customer Name: TEST AMERICA - HONOLULU, HI
99-193 AIEA HEIGHTS DRIVE
AIEA HI 96701-3900

Order ID: 111020054
Order Date: 10/20/2011

Contact Name: MARVIN D HESKETT III
Project Name: HUJ0059
Comment:

Sample #: 111020054-003 **Customer Sample #:** HUJ0059-03 (KSPMA2-DU-3 - SOLID/SOIL)

Recv'd: ☑ **Collector:** **Date Collected:** 10/12/2011
Quantity: 12 **Matrix:** Soil **Date Received:** 10/20/2011 12:26:00
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	11/1/2011	***Normal (6-10 Days)***
HERBICIDES	M	EPA 8151A	11/1/2011	***Normal (6-10 Days)***
PEST SCREEN TAHH 8270	M	EPA 8270CMOD	11/1/2011	***Normal (6-10 Days)***
SEMIVOLATILES 8270	M	EPA 8270C	11/1/2011	***Normal (6-10 Days)***
SEMIVOLATILES MISC LC/MS/MS	M	EPA 8321A	11/1/2011	***Normal (6-10 Days)***

SAMPLE CONDITION RECORD

Samples received in a cooler?	Yes
Samples received intact?	Yes
What is the temperature inside the cooler?	6.0
Samples received with a COC?	Yes
Samples received within holding time?	Yes
Are all sample bottles properly preserved?	Yes
Are VOC samples free of headspace?	N/A
Is there a trip blank to accompany VOC samples?	N/A
Labels and chain agree?	Yes

Subcontract Order - TestAmerica Honolulu (HUJ0059)

SENDING LABORATORY:

TestAmerica Honolulu
99-193 Aiea Heights Drive, Suite 121
Aiea, HI 96701
Phone: 808-486-5227
Fax: 808-486-2456
Project Manager: Marvin D. Heskett III

RECEIVING LABORATORY:

Anatek Labs.
1282 Alturas Dr.
Moscow, ID 83843
Phone :(208) 883-2839
Fax: 208
Project Location: Hawaii
Receipt Temperature:_____°C Ice: Y / N

May contain high level of Dioxin Please use client ID's KSPMA....

Standard TAT is requested unless specific due date is requested. => Due Date: _____ Initials: _____

Analysis	Units	Expires	Comments
Sample ID: HUJ0059-01 (KSPMA2-DU-1 - Solid/Soil)		Sampled: 10/12/11 13:30	
8151 Herbicides	mg/kg	10/26/11 13:30	
8270 Modified Pest. Screen	mg/kg	10/26/11 13:30	~~8270 Full + 8141 + Triazines~~
8321 HERBICIDES	ug/kg	10/26/11 13:30	Diuron ; all
Containers Supplied:			12
Incremental Sub-sample (analyze entire content) (C)	-01		
Sample ID: HUJ0059-02 (KSPMA2-DU-2 - Solid/Soil)		Sampled: 10/12/11 14:00	
8151 Herbicides	mg/kg	10/26/11 14:00	
8270 Modified Pest. Screen	mg/kg	10/26/11 14:00	8270 Full + 8141 + Triazines
8321 HERBICIDES	ug/kg	10/26/11 14:00	Diuron ; all
Containers Supplied:			6
Incremental Sub-sample (analyze entire content) (C)	-02	MWBS	
Sample ID: HUJ0059-03 (KSPMA2-DU-3 - Solid/Soil)		Sampled: 10/12/11 14:45	
8151 Herbicides	mg/kg	10/26/11 14:45	
8270 Modified Pest. Screen	mg/kg	10/26/11 14:45	8270 Full + 8141 + Triazines
8321 HERBICIDES	ug/kg	10/26/11 14:45	Diuron ; all
Containers Supplied:			
Incremental Sub-sample (analyze entire content) (C)	-03		

11020 054 TAHH Last Due 11/1/2011
st SAMP 10/12/201 1st RCVD 10/20/2011
UJ0059

ANATEK LABS RECEIVING LIST
☑ RECEIVED INTACT TEMP: 6.0 °C
☑ LABELS & CHAINS AGREE
☐ NO HEADSPACE
ICE / ICE-PACKS PRESENT: Y
CUSTODY SEALS PRESENT: N
PRESERVATIVES: —
NUMBER OF CONTAINERS: 24 SHIPPED VIA: F
DATE & TIME: 10/20/11 12:26 INSPECTED BY: BT

Released By _____ Date/Time 10/18/11 1115

Released By _____ Date/Time _____

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica - Honolulu
99-193 Aiea Heights Drive Suite 121 • Aiea, HI 96701-3900
808-486-LABS (5227) • Fax 808-486-2456

LABORATORY USE ONLY
LAB JOB NO. HU50059
LOCATION
CONTAINERS

Chain of Custody / Analysis Request Form

Report to: Laura Young
Company name: State of Hawaii DOH HEER Office
Address: 919 Ala Moana Blvd
City: Honolulu State: HI ZIP: 96814
Phone: (808) 586 7575 Fax:
Sampler: # samples in shipment: 3

Project identification
Job name: Kohala Sugar PMA 2
Job number:
P.O. number:
Contact email address: laura.young@doh.hawaii.gov
Date results needed: standard

Indicate analyses requested

Item no.	Client sample ID	COMP	GRAB	Matrix: Water	Soil	Wastewater	Drinking water	Sludge	Liquid	Solid	Oil	Other	Preservation method	Sampling: Date	Time	No. of containers	Total Metals 6010 / 7471	Dioxins/Furans 8280/8290	Organochlorine pesticides 8081	Organophosphorus pesticides 8141	Chlorinated herbicides 8151	SVOC 8270	Triazines & Atrazine	Carbamates 8321			Laboratory ID no.
1	KSPMA2-DU-1	X			X								none	10/12/11	1:30-50	1	X	X	X	X	X	X	X	X			HU50059-01
2	KSPMA2-DU-2	X			X								↓	↓	2:00-20	1	↓	↓	↓	↓	↓	↓	↓	↓			-02
3	KSPMA2-DU-3	X			X								↓	↓	2:45-3:10	1	↓	↓	↓	↓	↓	↓	↓	↓			-03
4																											
5																											
6																											
7																											
8																											
9																											
10																											

Released by (print / sign)	Date / time released	Delivery method	Received by (print / sign)	Company / Agency affiliation	Date / time received	Condition noted
Selena Pang Selena Pang	10/13/11 11:55	hand	[illegible] Jimson Cao	TA Hon	10/13/11 1155	Intact 2 42
	/				/	No Bice
	/				/	

Comments: Multi increment sample
lab to dry sieve prior to subsampling 4g added by Laura Young by email 10/13/11

Please check one:
☐ Dispose by lab
☐ Return to client
☐ Archive

COC REV 08/2008 Distribution: White - TestAmerica Yellow - TestAmerica Pink - Client

Page 1 of 1

TestAmerica

Rush TAT Confirmation (Initial/Date) _____

Sample Receipt Checklist

Client Name: DON MEER Date/ Time Received: 10/13/11 1155

Received By: [illegible]

Matrices: Soil Carrier: Client Airbill# :

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Chain of Custody present?	Yes ☑	No ☐	☐
Chain of Custody Signed when relinquished and received?	Yes ☑	No ☐	
Chain of Custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sample containers on ice?	Yes ☐	No ☑	Type: NA
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Water - VOA Vials have Zero Headspace?	Yes ☐	No ☐	No VOA vials present: ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Checked: ☑
pH Adjusted?	Yes ☐	No ☑	Final pH:
Encores / MI-VOC / 5035 Vials Present?	Yes ☐	No ☑	Location:
Sample Filtration Needed?	Yes ☐	No ☑	Filtered in Field: ☐
Dry Weight Corrected Results?	Yes ☐	No ☑	Take Action: ☐
DODQSM / QAPP Project?	Yes ☐	No ☑	Type:

Temperature Blank Present? Yes ☐ No ☑

Sample Container Temperature: 24 °C

Comments/ Sampling Handling Notes:

APPENDIX E

LABORATORY REPORTS FOR
JULY/AUGUST 2013
INTEGRAL/ACSI
SAMPLING EVENTS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Honolulu
99-193 Aiea Heights Drive, Suite 121
Aiea, HI 96701
Tel: 808-486-5227

TestAmerica Job ID: HWG0129
Client Project/Site: C1117
Client Project Description: HICDC-NKPMA

For:
Advanced Compliance Solutions Inc. (ACSI)
PO Box 30094
Honolulu, HI 96820

Attn: Erin Rietow

Authorized for release by:
8/19/2013 2:37:51 PM

Kristie Reilly, Project Manager
Kristie.Brachmann@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Advanced Compliance Solutions Inc. (ACSI)
Project/Site: C1117

TestAmerica Job ID: HWG0129

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.

Dioxin

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
q	The isomer is qualified as positively identified, but at an estimated quantity because the quantitation is based on the theoretical ratio for these samples.
*	Isotope Dilution analyte exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Advanced Compliance Solutions Inc. (ACSI)
Project/Site: C1117

TestAmerica Job ID: HWG0129

Job ID: HWG0129

Laboratory: TestAmerica Honolulu

Narrative

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory unless otherwise stated in the report. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. TestAmerica Analytical Testing Corporation certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

The Chain(s) of Custody are included and are an integral part of this report. This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(808)486-5227

LABORATORY REPORT

At sample receipt, the cooler/sample was 22 degrees C.
NELAC states that samples which require thermal preservation shall be considered acceptable if the arrival temperature is within 2 degrees C of the required temperature or the method specified range. For samples with a temperature requirement of 4 degrees C, an arrival temperature from 0 degrees C to 6 degrees C meets specifications. Samples that are delivered to the laboratory on the same day that they are collected may not meet these criteria. In these cases, the samples are considered acceptable if there is evidence that the chilling process has begun, such as arrival on ice.

The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

Samples were prepared in accordance with the State of Hawai'i Department of Health Office of Hazard Evaluation and Emergency Response's Technical Guidance Manual for the Implementation of the Hawai`i State Contingency Plan 2009 edition Laboratory Preparation of Multi-Increment Samples.

Per client sample HWG0129-03 was cancelled.

Laboratory: TestAmerica Sacramento

Narrative

Job Narrative
320-3538-1

Comments
No additional comments.

Receipt
The sample was received on 8/1/2013 9:05 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.7º C.

Dioxin
Method(s) 8290: Ion abundance ratios are outside criteria for the following sample: HWG0129-01 (320-3538-1). Quantitation is based on the theoretical ion abundance ratio; therefore, these analytes have been reported as an estimated maximum possible concentration (EMPC). The affected analytes have been flagged.

Method(s) 8290: The concentration of one or more analytes associated with the following sample exceeded the instrument calibration range: HWG0129-01 (320-3538-1). These analytes have been qualified; however, the peak did not saturate the instrument detector. Historical data indicate that for the isotope dilution method, dilution and re-analysis will not produce significantly different results from those reported above the calibration range.

No other analytical or quality issues were noted.

Job ID: HWG0129 (Continued)

Laboratory: TestAmerica Sacramento (Continued)

Dioxin Prep
No analytical or quality issues were noted.

Laboratory: TestAmerica Seattle

Narrative

Receipt
The samples were received on 8/1/2013 10:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.7º C and 3.5º C.

GC Semi VOA - Method 8081A
In analytical batch 141855, the continuing calibration verification (CCV) associated with preparation batch 141685 recovered above the upper control limit for Endosulfan II. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been qualified and reported. The following samples are impacted: (580-39574-1MS), (580-39574-1MSD), (CCV 580-141855/39), HWG0129-01 (580-39574-1).

No other analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

General Chemistry
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Sample Summary

Client: Advanced Compliance Solutions Inc. (ACSI)
Project/Site: C1117

TestAmerica Job ID: HWG0129

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
HWG0129-01	CF-01	Solid/Soil	07/25/13 10:05	07/29/13 12:10
HWG0129-02	WC-01	Solid/Soil	07/25/13 11:07	07/29/13 12:10
HWG0129-03	WC-02	Solid/Soil	07/25/13 11:38	07/29/13 12:10

Detection Summary

Client: Advanced Compliance Solutions Inc. (ACSI)
Project/Site: C1117

TestAmerica Job ID: HWG0129

Client Sample ID: CF-01 — Lab Sample ID: HWG0129-01

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	1.2	J	2.0	0.024	pg/g	1		8290	Total/NA
2,3,7,8-TCDF	0.85	J	2.0	0.017	pg/g	1		8290	Total/NA
1,2,3,7,8-PeCDD	4.6	J	10	0.063	pg/g	1		8290	Total/NA
1,2,3,7,8-PeCDF	0.80	J	10	0.043	pg/g	1		8290	Total/NA
2,3,4,7,8-PeCDF	0.93	J	10	0.044	pg/g	1		8290	Total/NA
1,2,3,4,7,8-HxCDD	8.3	J	10	0.12	pg/g	1		8290	Total/NA
1,2,3,6,7,8-HxCDD	41		10	0.086	pg/g	1		8290	Total/NA
1,2,3,7,8,9-HxCDD	21		10	0.083	pg/g	1		8290	Total/NA
1,2,3,4,7,8-HxCDF	11		10	0.19	pg/g	1		8290	Total/NA
1,2,3,6,7,8-HxCDF	6.5	J	10	0.15	pg/g	1		8290	Total/NA
2,3,4,6,7,8-HxCDF	5.4	J	10	0.17	pg/g	1		8290	Total/NA
1,2,3,4,6,7,8-HpCDD	1100		10	1.4	pg/g	1		8290	Total/NA
1,2,3,4,6,7,8-HpCDF	260		10	0.99	pg/g	1		8290	Total/NA
1,2,3,4,7,8,9-HpCDF	15		10	1.2	pg/g	1		8290	Total/NA
OCDD	12000	E B	20	1.7	pg/g	1		8290	Total/NA
OCDF	720		20	0.24	pg/g	1		8290	Total/NA
Total TCDD	9.4	q	2.0	0.024	pg/g	1		8290	Total/NA
Total TCDF	7.6		2.0	0.017	pg/g	1		8290	Total/NA
Total PeCDD	25		10	0.063	pg/g	1		8290	Total/NA
Total PeCDF	29	q	10	0.044	pg/g	1		8290	Total/NA
Total HxCDD	240		10	0.096	pg/g	1		8290	Total/NA
Total HxCDF	330		10	0.17	pg/g	1		8290	Total/NA
Total HpCDD	2300		10	1.4	pg/g	1		8290	Total/NA
Total HpCDF	1100		10	1.1	pg/g	1		8290	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
gamma-BHC (Lindane)	1.6		0.33		ug/Kg	1		8081A	Total/NA
gamma-Chlordane	0.61		0.33		ug/Kg	1		8081A	Total/NA
alpha-Chlordane	0.78		0.33		ug/Kg	1		8081A	Total/NA
Chlordane (technical)	5.9		3.3		ug/Kg	1		8081A	Total/NA
Arsenic	20		6.0		mg/Kg	10		6010B	Total/NA
Barium	60		1.0		mg/Kg	10		6010B	Total/NA
Chromium	92		2.6		mg/Kg	10		6010B	Total/NA
Lead	15		3.0		mg/Kg	10		6010B	Total/NA
Mercury	0.55		0.020		mg/Kg	10		7471A	Total/NA

Client Sample ID: WC-01 — Lab Sample ID: HWG0129-02

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.6		0.060		mg/L	1		6010B	TCLP
Cadmium	0.023		0.010		mg/L	1		6010B	TCLP
Chromium	0.035		0.025		mg/L	1		6010B	TCLP

Client Sample ID: WC-02 — Lab Sample ID: HWG0129-03

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Advanced Compliance Solutions Inc. (ACSI)
Project/Site: C1117

TestAmerica Job ID: HWG0129

Client Sample ID: CF-01

Date Collected: 07/25/13 10:05
Date Received: 07/29/13 12:10

Lab Sample ID: HWG0129-01

Matrix: Solid/Soil

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	ND		0.33		ug/Kg		08/05/13 11:30	08/07/13 19:13	1
gamma-BHC (Lindane)	**1.6**		0.33		ug/Kg		08/05/13 11:30	08/07/13 19:13	1
beta-BHC	ND		0.33		ug/Kg		08/05/13 11:30	08/07/13 19:13	1
delta-BHC	ND		0.33		ug/Kg		08/05/13 11:30	08/07/13 19:13	1
Aldrin	ND		0.33		ug/Kg		08/05/13 11:30	08/07/13 19:13	1
Heptachlor epoxide	ND		0.33		ug/Kg		08/05/13 11:30	08/07/13 19:13	1
gamma-Chlordane	**0.61**		0.33		ug/Kg		08/05/13 11:30	08/07/13 19:13	1
alpha-Chlordane	**0.78**		0.33		ug/Kg		08/05/13 11:30	08/07/13 19:13	1
Endosulfan I	ND		0.33		ug/Kg		08/05/13 11:30	08/07/13 19:13	1
4,4'-DDE	ND		0.65		ug/Kg		08/05/13 11:30	08/07/13 19:13	1
Dieldrin	ND		0.65		ug/Kg		08/05/13 11:30	08/07/13 19:13	1
Endrin	ND		0.65		ug/Kg		08/05/13 11:30	08/07/13 19:13	1
4,4'-DDD	ND		0.65		ug/Kg		08/05/13 11:30	08/07/13 19:13	1
Endosulfan II	ND	^	0.65		ug/Kg		08/05/13 11:30	08/07/13 19:13	1
Endrin aldehyde	ND		0.65		ug/Kg		08/05/13 11:30	08/07/13 19:13	1
Endosulfan sulfate	ND		0.65		ug/Kg		08/05/13 11:30	08/07/13 19:13	1
Toxaphene	ND		33		ug/Kg		08/05/13 11:30	08/07/13 19:13	1
Chlordane (technical)	**5.9**		3.3		ug/Kg		08/05/13 11:30	08/07/13 19:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*49 - 123*	*08/05/13 11:30*	*08/07/13 19:13*	*1*
DCB Decachlorobiphenyl	*65*		*40 - 158*	*08/05/13 11:30*	*08/07/13 19:13*	*1*

Method: 8081A - Organochlorine Pesticides (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		6.5		ug/Kg		08/05/13 11:30	08/11/13 16:47	10
4,4'-DDT	ND		6.5		ug/Kg		08/05/13 11:30	08/11/13 16:47	10
Methoxychlor	ND		33		ug/Kg		08/05/13 11:30	08/11/13 16:47	10
Endrin ketone	ND		6.5		ug/Kg		08/05/13 11:30	08/11/13 16:47	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*49 - 123*	*08/05/13 11:30*	*08/11/13 16:47*	*10*
DCB Decachlorobiphenyl	*66*		*40 - 158*	*08/05/13 11:30*	*08/11/13 16:47*	*10*

Method: 8290 - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	**1.2**	**J**	2.0	0.024	pg/g		08/05/13 13:45	08/12/13 20:31	1
2,3,7,8-TCDF	**0.85**	**J**	2.0	0.017	pg/g		08/05/13 13:45	08/12/13 20:31	1
1,2,3,7,8-PeCDD	**4.6**	**J**	10	0.063	pg/g		08/05/13 13:45	08/12/13 20:31	1
1,2,3,7,8-PeCDF	**0.80**	**J**	10	0.043	pg/g		08/05/13 13:45	08/12/13 20:31	1
2,3,4,7,8-PeCDF	**0.93**	**J**	10	0.044	pg/g		08/05/13 13:45	08/12/13 20:31	1
1,2,3,4,7,8-HxCDD	**8.3**	**J**	10	0.12	pg/g		08/05/13 13:45	08/12/13 20:31	1
1,2,3,6,7,8-HxCDD	**41**		10	0.086	pg/g		08/05/13 13:45	08/12/13 20:31	1
1,2,3,7,8,9-HxCDD	**21**		10	0.083	pg/g		08/05/13 13:45	08/12/13 20:31	1
1,2,3,4,7,8-HxCDF	**11**		10	0.19	pg/g		08/05/13 13:45	08/12/13 20:31	1
1,2,3,6,7,8-HxCDF	**6.5**	**J**	10	0.15	pg/g		08/05/13 13:45	08/12/13 20:31	1
2,3,4,6,7,8-HxCDF	**5.4**	**J**	10	0.17	pg/g		08/05/13 13:45	08/12/13 20:31	1
1,2,3,7,8,9-HxCDF	ND		10	0.19	pg/g		08/05/13 13:45	08/12/13 20:31	1
1,2,3,4,6,7,8-HpCDD	**1100**		10	1.4	pg/g		08/05/13 13:45	08/12/13 20:31	1
1,2,3,4,6,7,8-HpCDF	**260**		10	0.99	pg/g		08/05/13 13:45	08/12/13 20:31	1

Client Sample Results

Client: Advanced Compliance Solutions Inc. (ACSI)
Project/Site: C1117

TestAmerica Job ID: HWG0129

Client Sample ID: CF-01

Lab Sample ID: HWG0129-01

Date Collected: 07/25/13 10:05
Matrix: Solid/Soil
Date Received: 07/29/13 12:10

Method: 8290 - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,7,8,9-HpCDF	15		10	1.2	pg/g		08/05/13 13:45	08/12/13 20:31	1
OCDD	12000	E B	20	1.7	pg/g		08/05/13 13:45	08/12/13 20:31	1
OCDF	720		20	0.24	pg/g		08/05/13 13:45	08/12/13 20:31	1
Total TCDD	9.4	q	2.0	0.024	pg/g		08/05/13 13:45	08/12/13 20:31	1
Total TCDF	7.6		2.0	0.017	pg/g		08/05/13 13:45	08/12/13 20:31	1
Total PeCDD	25		10	0.063	pg/g		08/05/13 13:45	08/12/13 20:31	1
Total PeCDF	29	q	10	0.044	pg/g		08/05/13 13:45	08/12/13 20:31	1
Total HxCDD	240		10	0.096	pg/g		08/05/13 13:45	08/12/13 20:31	1
Total HxCDF	330		10	0.17	pg/g		08/05/13 13:45	08/12/13 20:31	1
Total HpCDD	2300		10	1.4	pg/g		08/05/13 13:45	08/12/13 20:31	1
Total HpCDF	1100		10	1.1	pg/g		08/05/13 13:45	08/12/13 20:31	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*90*		*40 - 135*	*08/05/13 13:45*	*08/12/13 20:31*	*1*
13C-2,3,7,8-TCDF	*83*		*40 - 135*	*08/05/13 13:45*	*08/12/13 20:31*	*1*
13C-1,2,3,7,8-PeCDD	*83*		*40 - 135*	*08/05/13 13:45*	*08/12/13 20:31*	*1*
13C-1,2,3,7,8-PeCDF	*79*		*40 - 135*	*08/05/13 13:45*	*08/12/13 20:31*	*1*
13C-1,2,3,6,7,8-HxCDD	*102*		*40 - 135*	*08/05/13 13:45*	*08/12/13 20:31*	*1*
13C-1,2,3,4,7,8-HxCDF	*95*		*40 - 135*	*08/05/13 13:45*	*08/12/13 20:31*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*98*		*40 - 135*	*08/05/13 13:45*	*08/12/13 20:31*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*94*		*40 - 135*	*08/05/13 13:45*	*08/12/13 20:31*	*1*
13C-OCDD	*118*		*40 - 135*	*08/05/13 13:45*	*08/12/13 20:31*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	20		6.0		mg/Kg		08/05/13 16:06	08/06/13 13:52	10
Barium	60		1.0		mg/Kg		08/05/13 16:06	08/06/13 13:52	10
Cadmium	ND		2.0		mg/Kg		08/05/13 16:06	08/06/13 13:52	10
Chromium	92		2.6		mg/Kg		08/05/13 16:06	08/06/13 13:52	10
Lead	15		3.0		mg/Kg		08/05/13 16:06	08/06/13 13:52	10
Selenium	ND		10		mg/Kg		08/05/13 16:06	08/06/13 13:52	10
Silver	ND		3.0		mg/Kg		08/05/13 16:06	08/06/13 13:52	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.55		0.020		mg/Kg		08/05/13 12:37	08/05/13 14:51	10

Client Sample ID: WC-01

Lab Sample ID: HWG0129-02

Date Collected: 07/25/13 11:07
Matrix: Solid/Soil
Date Received: 07/29/13 12:10

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.6		0.060		mg/L		08/02/13 10:44	08/02/13 16:48	1
Barium	ND		0.010		mg/L		08/02/13 10:44	08/02/13 16:48	1
Cadmium	0.023		0.010		mg/L		08/02/13 10:44	08/02/13 16:48	1
Chromium	0.035		0.025		mg/L		08/02/13 10:44	08/02/13 16:48	1
Lead	ND		0.030		mg/L		08/02/13 10:44	08/02/13 16:48	1
Selenium	ND		0.10		mg/L		08/02/13 10:44	08/02/13 16:48	1
Silver	ND		0.050		mg/L		08/02/13 10:44	08/02/13 16:48	1

Client Sample Results

Client: Advanced Compliance Solutions Inc. (ACSI)
Project/Site: C1117

TestAmerica Job ID: HWG0129

Client Sample ID: WC-01

Date Collected: 07/25/13 11:07
Date Received: 07/29/13 12:10

Lab Sample ID: HWG0129-02

Matrix: Solid/Soil

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0020		mg/L		08/02/13 11:01	08/02/13 13:56	1

Surrogate Summary

Client: Advanced Compliance Solutions Inc. (ACSI)
Project/Site: C1117

TestAmerica Job ID: HWG0129

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(49-123)	(49-123)	(40-158)	(40-158)
580-39574-1 MS	HWG0129-01	73		68	
580-39574-1 MS - DL	HWG0129-01	81		73	
580-39574-1 MSD	HWG0129-01	92		76	
580-39574-1 MSD - DL	HWG0129-01	100		89	
LCS 580-141685/2-A	Lab Control Sample	88		88	
LCS 580-141685/6-A	Lab Control Sample	91		94	
LCSD 580-141685/3-A	Lab Control Sample Dup	89		88	
LCSD 580-141685/7-A	Lab Control Sample Dup	91		95	
MB 580-141685/1-A	Method Blank	86	92	90	91

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid/Soil **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(49-123)	(40-158)
HWG0129-01	CF-01	72	65
HWG0129-01 - DL	CF-01	72	66

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

QC Sample Results

Client: Advanced Compliance Solutions Inc. (ACSI)
Project/Site: C1117

TestAmerica Job ID: HWG0129

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 580-141685/1-A
Matrix: Solid
Analysis Batch: 141855

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 141685

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	ND		0.33		ug/Kg		08/05/13 11:30	08/07/13 10:44	1
gamma-BHC (Lindane)	ND		0.33		ug/Kg		08/05/13 11:30	08/07/13 10:44	1
beta-BHC	ND		0.33		ug/Kg		08/05/13 11:30	08/07/13 10:44	1
delta-BHC	ND		0.33		ug/Kg		08/05/13 11:30	08/07/13 10:44	1
Heptachlor	ND		0.67		ug/Kg		08/05/13 11:30	08/07/13 10:44	1
Aldrin	ND		0.33		ug/Kg		08/05/13 11:30	08/07/13 10:44	1
Heptachlor epoxide	ND		0.33		ug/Kg		08/05/13 11:30	08/07/13 10:44	1
gamma-Chlordane	ND		0.33		ug/Kg		08/05/13 11:30	08/07/13 10:44	1
alpha-Chlordane	ND		0.33		ug/Kg		08/05/13 11:30	08/07/13 10:44	1
Endosulfan I	ND		0.33		ug/Kg		08/05/13 11:30	08/07/13 10:44	1
4,4'-DDE	ND		0.67		ug/Kg		08/05/13 11:30	08/07/13 10:44	1
Dieldrin	ND		0.67		ug/Kg		08/05/13 11:30	08/07/13 10:44	1
Endrin	ND		0.67		ug/Kg		08/05/13 11:30	08/07/13 10:44	1
4,4'-DDD	ND		0.67		ug/Kg		08/05/13 11:30	08/07/13 10:44	1
Endosulfan II	ND		0.67		ug/Kg		08/05/13 11:30	08/07/13 10:44	1
4,4'-DDT	ND		0.67		ug/Kg		08/05/13 11:30	08/07/13 10:44	1
Endrin aldehyde	ND		0.67		ug/Kg		08/05/13 11:30	08/07/13 10:44	1
Endosulfan sulfate	ND		0.67		ug/Kg		08/05/13 11:30	08/07/13 10:44	1
Methoxychlor	ND		3.3		ug/Kg		08/05/13 11:30	08/07/13 10:44	1
Endrin ketone	ND		0.67		ug/Kg		08/05/13 11:30	08/07/13 10:44	1
Toxaphene	ND		33		ug/Kg		08/05/13 11:30	08/07/13 10:44	1
Chlordane (technical)	ND		3.3		ug/Kg		08/05/13 11:30	08/07/13 10:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*86*		*49 - 123*	*08/05/13 11:30*	*08/07/13 10:44*	*1*
DCB Decachlorobiphenyl	*90*		*40 - 158*	*08/05/13 11:30*	*08/07/13 10:44*	*1*

Lab Sample ID: LCS 580-141685/2-A
Matrix: Solid
Analysis Batch: 141855

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 141685

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
alpha-BHC	6.67	5.36		ug/Kg		80	49 - 124
gamma-BHC (Lindane)	6.67	5.43		ug/Kg		81	54 - 128
beta-BHC	6.67	5.24		ug/Kg		79	51 - 129
delta-BHC	6.67	3.51		ug/Kg		53	36 - 139
Heptachlor	6.67	5.65		ug/Kg		85	36 - 137
Aldrin	6.67	5.50		ug/Kg		83	54 - 128
Heptachlor epoxide	6.67	5.51		ug/Kg		83	57 - 130
gamma-Chlordane	6.67	5.83		ug/Kg		88	52 - 131
alpha-Chlordane	6.67	5.90		ug/Kg		88	54 - 134
Endosulfan I	6.67	5.28		ug/Kg		79	50 - 130
4,4'-DDE	6.67	5.55		ug/Kg		83	53 - 128
Dieldrin	6.67	5.70		ug/Kg		85	56 - 131
Endrin	6.67	5.54		ug/Kg		83	49 - 147
4,4'-DDD	6.67	5.49		ug/Kg		82	48 - 137
Endosulfan II	6.67	5.51		ug/Kg		83	44 - 142
4,4'-DDT	6.67	5.55		ug/Kg		83	43 - 144

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 580-141685/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 141855 — **Prep Batch: 141685**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Endrin aldehyde	6.67	5.09		ug/Kg		76	52 - 136
Endosulfan sulfate	6.67	5.04		ug/Kg		76	47 - 129
Methoxychlor	6.67	5.54		ug/Kg		83	51 - 149
Endrin ketone	6.67	5.35		ug/Kg		80	52 - 148

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*88*		*49 - 123*
DCB Decachlorobiphenyl	*88*		*40 - 158*

Lab Sample ID: LCS 580-141685/6-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 141855 — **Prep Batch: 141685**

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*91*		*49 - 123*
DCB Decachlorobiphenyl	*94*		*40 - 158*

Lab Sample ID: LCSD 580-141685/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 141855 — **Prep Batch: 141685**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
alpha-BHC	6.67	5.58		ug/Kg		84	49 - 124	4	28
gamma-BHC (Lindane)	6.67	5.65		ug/Kg		85	54 - 128	4	29
beta-BHC	6.67	5.47		ug/Kg		82	51 - 129	4	32
delta-BHC	6.67	3.68		ug/Kg		55	36 - 139	5	36
Heptachlor	6.67	5.88		ug/Kg		88	36 - 137	4	31
Aldrin	6.67	5.82		ug/Kg		87	54 - 128	6	24
Heptachlor epoxide	6.67	5.76		ug/Kg		86	57 - 130	4	31
gamma-Chlordane	6.67	6.13		ug/Kg		92	52 - 131	5	32
alpha-Chlordane	6.67	6.17		ug/Kg		93	54 - 134	5	33
Endosulfan I	6.67	5.53		ug/Kg		83	50 - 130	5	31
4,4'-DDE	6.67	5.83		ug/Kg		87	53 - 128	5	40
Dieldrin	6.67	5.96		ug/Kg		89	56 - 131	4	32
Endrin	6.67	5.78		ug/Kg		87	49 - 147	4	36
4,4'-DDD	6.67	5.76		ug/Kg		86	48 - 137	5	41
Endosulfan II	6.67	5.79		ug/Kg		87	44 - 142	5	36
4,4'-DDT	6.67	5.83		ug/Kg		88	43 - 144	5	47
Endrin aldehyde	6.67	5.46		ug/Kg		82	52 - 136	7	47
Endosulfan sulfate	6.67	5.29		ug/Kg		79	47 - 129	5	43
Methoxychlor	6.67	5.87		ug/Kg		88	51 - 149	6	46
Endrin ketone	6.67	5.60		ug/Kg		84	52 - 148	5	45

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*89*		*49 - 123*
DCB Decachlorobiphenyl	*88*		*40 - 158*

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 580-141685/7-A
Matrix: Solid
Analysis Batch: 141855

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 141685

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*91*		*49 - 123*
DCB Decachlorobiphenyl	*95*		*40 - 158*

Lab Sample ID: 580-39574-1 MS
Matrix: Solid
Analysis Batch: 141855

Client Sample ID: HWG0129-01
Prep Type: Total/NA
Prep Batch: 141685

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
alpha-BHC	ND		6.53	4.46		ug/Kg		68	49 - 124
gamma-BHC (Lindane)	ND		6.53	5.95		ug/Kg		91	54 - 128
beta-BHC	ND		6.53	4.41		ug/Kg		68	51 - 129
delta-BHC	ND		6.53	2.62		ug/Kg		40	36 - 139
Aldrin	ND		6.53	4.59		ug/Kg		70	54 - 128
Heptachlor epoxide	ND		6.53	4.08		ug/Kg		63	57 - 130
gamma-Chlordane	0.61		6.53	5.21		ug/Kg		71	52 - 131
alpha-Chlordane	0.78		6.53	5.59		ug/Kg		74	54 - 134
Endosulfan I	ND		6.53	4.30		ug/Kg		65	50 - 130
4,4'-DDE	ND		6.53	4.24		ug/Kg		63	53 - 128
Dieldrin	ND		6.53	4.38		ug/Kg		67	56 - 131
Endrin	ND		6.53	4.16		ug/Kg		64	49 - 147
4,4'-DDD	ND		6.53	3.55		ug/Kg		54	48 - 137
Endosulfan II	ND	^	6.53	5.11	^	ug/Kg		78	44 - 142
Endrin aldehyde	ND		6.53	3.71		ug/Kg		57	52 - 136
Endosulfan sulfate	ND		6.53	4.75		ug/Kg		73	47 - 129

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*73*		*49 - 123*
DCB Decachlorobiphenyl	*68*		*40 - 158*

Lab Sample ID: 580-39574-1 MSD
Matrix: Solid
Analysis Batch: 141855

Client Sample ID: HWG0129-01
Prep Type: Total/NA
Prep Batch: 141685

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
alpha-BHC	ND		6.63	5.57		ug/Kg		84	49 - 124	22	30
gamma-BHC (Lindane)	ND		6.63	6.14		ug/Kg		93	54 - 128	3	30
beta-BHC	ND		6.63	5.43		ug/Kg		82	51 - 129	21	30
delta-BHC	ND		6.63	3.25		ug/Kg		49	36 - 139	21	30
Aldrin	ND		6.63	5.67		ug/Kg		86	54 - 128	21	30
Heptachlor epoxide	ND		6.63	5.09		ug/Kg		77	57 - 130	22	30
gamma-Chlordane	0.61		6.63	6.46		ug/Kg		88	52 - 131	21	30
alpha-Chlordane	0.78		6.63	6.86		ug/Kg		92	54 - 134	20	30
Endosulfan I	ND		6.63	5.41		ug/Kg		80	50 - 130	23	30
4,4'-DDE	ND		6.63	5.28		ug/Kg		78	53 - 128	22	30
Dieldrin	ND		6.63	5.44		ug/Kg		82	56 - 131	22	30
Endrin	ND		6.63	5.14		ug/Kg		78	49 - 147	21	30
4,4'-DDD	ND		6.63	4.53		ug/Kg		68	48 - 137	24	30

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 580-39574-1 MSD **Client Sample ID: HWG0129-01**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 141855 **Prep Batch: 141685**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Endosulfan II	ND	^	6.63	6.60	^	ug/Kg		100	44 - 142	25	30
Endrin aldehyde	ND		6.63	4.55		ug/Kg		69	52 - 136	20	30
Endosulfan sulfate	ND		6.63	6.00		ug/Kg		91	47 - 129	23	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*92*		*49 - 123*
DCB Decachlorobiphenyl	*76*		*40 - 158*

Method: 8081A - Organochlorine Pesticides (GC) - DL

Lab Sample ID: 580-39574-1 MS **Client Sample ID: HWG0129-01**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 142180 **Prep Batch: 141685**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Heptachlor - DL	ND		6.53	ND		ug/Kg		75	36 - 137
4,4'-DDT - DL	ND		6.53	ND		ug/Kg		45	43 - 144
Methoxychlor - DL	ND		6.53	ND		ug/Kg		78	51 - 149
Endrin ketone - DL	ND		6.53	ND		ug/Kg		80	52 - 148

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene - DL	*81*		*49 - 123*
DCB Decachlorobiphenyl - DL	*73*		*40 - 158*

Lab Sample ID: 580-39574-1 MSD **Client Sample ID: HWG0129-01**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 142180 **Prep Batch: 141685**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Heptachlor - DL	ND		6.63	ND		ug/Kg		92	36 - 137	21	30
4,4'-DDT - DL	ND		6.63	ND		ug/Kg		62	43 - 144	22	30
Methoxychlor - DL	ND		6.63	ND		ug/Kg		96	51 - 149	22	30
Endrin ketone - DL	ND		6.63	ND		ug/Kg		96	52 - 148	21	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene - DL	*100*		*49 - 123*
DCB Decachlorobiphenyl - DL	*89*		*40 - 158*

Method: 8290 - Dioxins and Furans (HRGC/HRMS)

Lab Sample ID: MB 320-22232/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 22777 **Prep Batch: 22232**

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		2.0	0.046	pg/g		08/05/13 13:45	08/12/13 19:08	1
2,3,7,8-TCDF	ND		2.0	0.031	pg/g		08/05/13 13:45	08/12/13 19:08	1

Method: 8290 - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-22232/1-A
Matrix: Solid
Analysis Batch: 22777

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 22232

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,7,8-PeCDD	ND		10	0.092	pg/g		08/05/13 13:45	08/12/13 19:08	1
1,2,3,7,8-PeCDF	ND		10	0.053	pg/g		08/05/13 13:45	08/12/13 19:08	1
2,3,4,7,8-PeCDF	ND		10	0.055	pg/g		08/05/13 13:45	08/12/13 19:08	1
1,2,3,4,7,8-HxCDD	ND		10	0.077	pg/g		08/05/13 13:45	08/12/13 19:08	1
1,2,3,6,7,8-HxCDD	ND		10	0.057	pg/g		08/05/13 13:45	08/12/13 19:08	1
1,2,3,7,8,9-HxCDD	ND		10	0.054	pg/g		08/05/13 13:45	08/12/13 19:08	1
1,2,3,4,7,8-HxCDF	ND		10	0.046	pg/g		08/05/13 13:45	08/12/13 19:08	1
1,2,3,6,7,8-HxCDF	ND		10	0.035	pg/g		08/05/13 13:45	08/12/13 19:08	1
2,3,4,6,7,8-HxCDF	ND		10	0.040	pg/g		08/05/13 13:45	08/12/13 19:08	1
1,2,3,7,8,9-HxCDF	ND		10	0.045	pg/g		08/05/13 13:45	08/12/13 19:08	1
1,2,3,4,6,7,8-HpCDD	ND		10	0.064	pg/g		08/05/13 13:45	08/12/13 19:08	1
1,2,3,4,6,7,8-HpCDF	ND		10	0.046	pg/g		08/05/13 13:45	08/12/13 19:08	1
1,2,3,4,7,8,9-HpCDF	ND		10	0.055	pg/g		08/05/13 13:45	08/12/13 19:08	1
OCDD	0.357	J	20	0.079	pg/g		08/05/13 13:45	08/12/13 19:08	1
OCDF	ND		20	0.075	pg/g		08/05/13 13:45	08/12/13 19:08	1
Total TCDD	ND		2.0	0.046	pg/g		08/05/13 13:45	08/12/13 19:08	1
Total TCDF	ND		2.0	0.074	pg/g		08/05/13 13:45	08/12/13 19:08	1
Total PeCDD	ND		10	0.092	pg/g		08/05/13 13:45	08/12/13 19:08	1
Total PeCDF	ND		10	0.055	pg/g		08/05/13 13:45	08/12/13 19:08	1
Total HxCDD	ND		10	0.077	pg/g		08/05/13 13:45	08/12/13 19:08	1
Total HxCDF	ND		10	0.046	pg/g		08/05/13 13:45	08/12/13 19:08	1
Total HpCDD	ND		10	0.078	pg/g		08/05/13 13:45	08/12/13 19:08	1
Total HpCDF	ND		10	0.055	pg/g		08/05/13 13:45	08/12/13 19:08	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*36*	*	*40 - 135*	*08/05/13 13:45*	*08/12/13 19:08*	*1*
13C-2,3,7,8-TCDF	*31*	*	*40 - 135*	*08/05/13 13:45*	*08/12/13 19:08*	*1*
13C-1,2,3,7,8-PeCDD	*28*	*	*40 - 135*	*08/05/13 13:45*	*08/12/13 19:08*	*1*
13C-1,2,3,7,8-PeCDF	*29*	*	*40 - 135*	*08/05/13 13:45*	*08/12/13 19:08*	*1*
13C-1,2,3,6,7,8-HxCDD	*35*	*	*40 - 135*	*08/05/13 13:45*	*08/12/13 19:08*	*1*
13C-1,2,3,4,7,8-HxCDF	*35*	*	*40 - 135*	*08/05/13 13:45*	*08/12/13 19:08*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*31*	*	*40 - 135*	*08/05/13 13:45*	*08/12/13 19:08*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*31*	*	*40 - 135*	*08/05/13 13:45*	*08/12/13 19:08*	*1*
13C-OCDD	*29*	*	*40 - 135*	*08/05/13 13:45*	*08/12/13 19:08*	*1*

Lab Sample ID: LCS 320-22232/2-A
Matrix: Solid
Analysis Batch: 22777

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 22232

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,3,7,8-TCDD	20.0	19.3		pg/g		97	60 - 138
2,3,7,8-TCDF	20.0	20.5		pg/g		103	56 - 158
1,2,3,7,8-PeCDD	100	106		pg/g		106	70 - 122
1,2,3,7,8-PeCDF	100	104		pg/g		104	69 - 134
2,3,4,7,8-PeCDF	100	100		pg/g		100	70 - 131
1,2,3,4,7,8-HxCDD	100	94.1		pg/g		94	60 - 138
1,2,3,6,7,8-HxCDD	100	106		pg/g		106	68 - 136
1,2,3,7,8,9-HxCDD	100	104		pg/g		104	68 - 138

Method: 8290 - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-22232/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 22777 **Prep Batch: 22232**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3,4,7,8-HxCDF	100	109		pg/g		109	74 - 128
1,2,3,6,7,8-HxCDF	100	110		pg/g		110	67 - 140
2,3,4,6,7,8-HxCDF	100	108		pg/g		108	71 - 137
1,2,3,7,8,9-HxCDF	100	105		pg/g		105	72 - 134
1,2,3,4,6,7,8-HpCDD	100	104		pg/g		104	71 - 128
1,2,3,4,6,7,8-HpCDF	100	107		pg/g		107	71 - 134
1,2,3,4,7,8,9-HpCDF	100	98.3		pg/g		98	68 - 129
OCDD	200	223		pg/g		112	70 - 128
OCDF	200	211		pg/g		106	63 - 141

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*84*		*40 - 135*
13C-2,3,7,8-TCDF	*79*		*40 - 135*
13C-1,2,3,7,8-PeCDD	*81*		*40 - 135*
13C-1,2,3,7,8-PeCDF	*79*		*40 - 135*
13C-1,2,3,6,7,8-HxCDD	*95*		*40 - 135*
13C-1,2,3,4,7,8-HxCDF	*89*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDD	*87*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDF	*89*		*40 - 135*
13C-OCDD	*87*		*40 - 135*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 580-141726/7-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 141879 **Prep Batch: 141726**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0		mg/Kg		08/05/13 16:06	08/06/13 13:09	1
Barium	ND		0.50		mg/Kg		08/05/13 16:06	08/06/13 13:09	1
Cadmium	ND		1.0		mg/Kg		08/05/13 16:06	08/06/13 13:09	1
Chromium	ND		1.3		mg/Kg		08/05/13 16:06	08/06/13 13:09	1
Lead	ND		1.5		mg/Kg		08/05/13 16:06	08/06/13 13:09	1
Selenium	ND		5.0		mg/Kg		08/05/13 16:06	08/06/13 13:09	1
Silver	ND		1.5		mg/Kg		08/05/13 16:06	08/06/13 13:09	1

Lab Sample ID: LCS 580-141726/8-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 141879 **Prep Batch: 141726**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	200	198		mg/Kg		99	80 - 120
Barium	200	203		mg/Kg		101	80 - 120
Cadmium	5.00	5.15		mg/Kg		103	80 - 120
Chromium	20.0	21.1		mg/Kg		106	80 - 120
Lead	50.0	48.1		mg/Kg		96	80 - 120
Selenium	200	195		mg/Kg		97	80 - 120
Silver	30.0	30.2		mg/Kg		101	75 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSD 580-141726/9-A
Matrix: Solid
Analysis Batch: 141879

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 141726

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	200	194		mg/Kg		97	80 - 120	2	20
Barium	200	200		mg/Kg		100	80 - 120	2	20
Cadmium	5.00	5.05		mg/Kg		101	80 - 120	2	20
Chromium	20.0	20.7		mg/Kg		103	80 - 120	2	20
Lead	50.0	47.0		mg/Kg		94	80 - 120	2	20
Selenium	200	192		mg/Kg		96	80 - 120	2	20
Silver	30.0	29.3		mg/Kg		98	75 - 120	3	20

Lab Sample ID: LCSSRM 580-141726/10-A
Matrix: Solid
Analysis Batch: 141879

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 141726

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	237	238		mg/Kg		100.6	71.3 - 129.1
Barium	252	253		mg/Kg		100.3	73.8 - 126.2
Cadmium	191	190		mg/Kg		99.5	73.3 - 126.7
Chromium	128	129		mg/Kg		101.1	65.5 - 129.7
Lead	103	99.6		mg/Kg		96.7	70.9 - 128.2
Selenium	110	110		mg/Kg		99.7	66.0 - 134.5
Silver	47.3	47.9		mg/Kg		101.3	66.4 - 133.6

Lab Sample ID: MB 580-141394/1-B
Matrix: Solid
Analysis Batch: 141671

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 141523

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.060		mg/L		08/02/13 10:44	08/02/13 16:11	1
Barium	ND		0.010		mg/L		08/02/13 10:44	08/02/13 16:11	1
Cadmium	ND		0.010		mg/L		08/02/13 10:44	08/02/13 16:11	1
Chromium	ND		0.025		mg/L		08/02/13 10:44	08/02/13 16:11	1
Lead	ND		0.030		mg/L		08/02/13 10:44	08/02/13 16:11	1
Selenium	ND		0.10		mg/L		08/02/13 10:44	08/02/13 16:11	1
Silver	ND		0.050		mg/L		08/02/13 10:44	08/02/13 16:11	1

Lab Sample ID: LCS 580-141394/2-B
Matrix: Solid
Analysis Batch: 141671

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 141523

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	4.00	4.20		mg/L		105	80 - 120
Barium	4.00	3.92		mg/L		98	80 - 120
Cadmium	0.100	0.101		mg/L		101	80 - 120
Chromium	0.400	0.401		mg/L		100	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 580-141394/2-B — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 141671 — **Prep Batch: 141523**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	1.00	0.991		mg/L		99	80 - 120
Selenium	4.00	4.28		mg/L		107	80 - 120
Silver	0.600	0.600		mg/L		100	80 - 120

Lab Sample ID: LCSD 580-141394/3-B — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 141671 — **Prep Batch: 141523**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	4.00	4.31		mg/L		108	80 - 120	3	20
Barium	4.00	4.11		mg/L		103	80 - 120	5	20
Cadmium	0.100	0.104		mg/L		104	80 - 120	3	20
Chromium	0.400	0.414		mg/L		103	80 - 120	3	20
Lead	1.00	1.02		mg/L		102	80 - 120	3	20
Selenium	4.00	4.41		mg/L		110	80 - 120	3	20
Silver	0.600	0.607		mg/L		101	80 - 120	1	20

Lab Sample ID: 580-39562-A-8-E MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 141671 — **Prep Batch: 141523**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		4.00	4.31		mg/L		107	50 - 150
Barium	0.40		4.00	4.38		mg/L		100	50 - 150
Cadmium	0.016		0.100	0.115		mg/L		100	50 - 150
Chromium	0.066		0.400	0.467		mg/L		100	50 - 150
Lead	1.2		1.00	2.24		mg/L		102	50 - 150
Selenium	ND		4.00	4.37		mg/L		109	50 - 150
Silver	ND		0.600	0.583		mg/L		97	50 - 150

Lab Sample ID: 580-39562-A-8-F MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 141671 — **Prep Batch: 141523**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		4.00	4.21		mg/L		104	50 - 150	2	20
Barium	0.40		4.00	4.27		mg/L		97	50 - 150	3	20
Cadmium	0.016		0.100	0.114		mg/L		98	50 - 150	2	20
Chromium	0.066		0.400	0.459		mg/L		98	50 - 150	2	20
Lead	1.2		1.00	2.18		mg/L		97	50 - 150	2	20
Selenium	ND		4.00	4.27		mg/L		107	50 - 150	2	20
Silver	ND		0.600	0.556		mg/L		93	50 - 150	5	20

Lab Sample ID: 580-39562-A-8-D DU — **Client Sample ID: Duplicate**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 141671 — **Prep Batch: 141523**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	ND		ND		mg/L		NC	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 580-39562-A-8-D DU — **Client Sample ID: Duplicate**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 141671 — **Prep Batch: 141523**

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Barium	0.40			0.404		mg/L				0.3	20
Cadmium	0.016			0.0159		mg/L				1	20
Chromium	0.066			0.0663		mg/L				0.9	20
Lead	1.2			1.22		mg/L				0.2	20
Selenium	ND			ND		mg/L				NC	20
Silver	ND			ND		mg/L				NC	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 580-141394/1-C — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 141571 — **Prep Batch: 141528**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0020		mg/L		08/02/13 11:01	08/02/13 13:37	1

Lab Sample ID: LCS 580-141394/2-C — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 141571 — **Prep Batch: 141528**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.0200	0.0179		mg/L		90	80 - 120		

Lab Sample ID: LCSD 580-141394/3-C — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 141571 — **Prep Batch: 141528**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury			0.0200	0.0174		mg/L		87	80 - 120	3	20

Lab Sample ID: 580-39574-3 MS — **Client Sample ID: HWG0129-03**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 141571 — **Prep Batch: 141528**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	ND		0.0200	0.0183		mg/L		89	80 - 120		

Lab Sample ID: 580-39574-3 MSD — **Client Sample ID: HWG0129-03**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 141571 — **Prep Batch: 141528**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.0200	0.0182		mg/L		88	80 - 120	1	20

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 580-39574-3 DU — **Client Sample ID: HWG0129-03**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 141571 — **Prep Batch: 141528**

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Mercury	ND			ND		mg/L				NC	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 580-141691/7-A ^10 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 141715 — **Prep Batch: 141691**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020		mg/Kg		08/05/13 12:37	08/05/13 14:39	10

Lab Sample ID: LCS 580-141691/8-A ^10 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 141715 — **Prep Batch: 141691**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.100	0.0997		mg/Kg		100	80 - 120		

Lab Sample ID: LCSD 580-141691/9-A ^10 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 141715 — **Prep Batch: 141691**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury			0.100	0.0991		mg/Kg		99	80 - 120	1	20

Lab Sample ID: LCSSRM 580-141691/10-A ^10 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 141715 — **Prep Batch: 141691**

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			12.4	13.3		mg/Kg		107.1	51.3 - 148.4		

QC Association Summary

Client: Advanced Compliance Solutions Inc. (ACSI)
Project/Site: C1117

TestAmerica Job ID: HWG0129

GC Semi VOA

Prep Batch: 141685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-39574-1 MS - DL	HWG0129-01	Total/NA	Solid	3550B	
580-39574-1 MS	HWG0129-01	Total/NA	Solid	3550B	
580-39574-1 MSD - DL	HWG0129-01	Total/NA	Solid	3550B	
580-39574-1 MSD	HWG0129-01	Total/NA	Solid	3550B	
HWG0129-01 - DL	CF-01	Total/NA	Solid/Soil	3550B	
HWG0129-01	CF-01	Total/NA	Solid/Soil	3550B	
LCS 580-141685/2-A	Lab Control Sample	Total/NA	Solid	3550B	
LCS 580-141685/6-A	Lab Control Sample	Total/NA	Solid	3550B	
LCSD 580-141685/3-A	Lab Control Sample Dup	Total/NA	Solid	3550B	
LCSD 580-141685/7-A	Lab Control Sample Dup	Total/NA	Solid	3550B	
MB 580-141685/1-A	Method Blank	Total/NA	Solid	3550B	

Analysis Batch: 141855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-39574-1 MS	HWG0129-01	Total/NA	Solid	8081A	141685
580-39574-1 MSD	HWG0129-01	Total/NA	Solid	8081A	141685
HWG0129-01	CF-01	Total/NA	Solid/Soil	8081A	141685
LCS 580-141685/2-A	Lab Control Sample	Total/NA	Solid	8081A	141685
LCS 580-141685/6-A	Lab Control Sample	Total/NA	Solid	8081A	141685
LCSD 580-141685/3-A	Lab Control Sample Dup	Total/NA	Solid	8081A	141685
LCSD 580-141685/7-A	Lab Control Sample Dup	Total/NA	Solid	8081A	141685
MB 580-141685/1-A	Method Blank	Total/NA	Solid	8081A	141685

Analysis Batch: 142180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-39574-1 MS - DL	HWG0129-01	Total/NA	Solid	8081A	141685
580-39574-1 MSD - DL	HWG0129-01	Total/NA	Solid	8081A	141685
HWG0129-01 - DL	CF-01	Total/NA	Solid/Soil	8081A	141685

Specialty Organics

Prep Batch: 22232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HWG0129-01	CF-01	Total/NA	Solid/Soil	8290	
LCS 320-22232/2-A	Lab Control Sample	Total/NA	Solid	8290	
MB 320-22232/1-A	Method Blank	Total/NA	Solid	8290	

Analysis Batch: 22777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HWG0129-01	CF-01	Total/NA	Solid/Soil	8290	22232
LCS 320-22232/2-A	Lab Control Sample	Total/NA	Solid	8290	22232
MB 320-22232/1-A	Method Blank	Total/NA	Solid	8290	22232

Metals

Leach Batch: 141394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-39562-A-8-D DU	Duplicate	TCLP	Solid	1311	
580-39562-A-8-E MS	Matrix Spike	TCLP	Solid	1311	
580-39562-A-8-F MSD	Matrix Spike Duplicate	TCLP	Solid	1311	

Metals (Continued)

Leach Batch: 141394 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-39574-3 DU	HWG0129-03	TCLP	Solid	1311	
580-39574-3 MS	HWG0129-03	TCLP	Solid	1311	
580-39574-3 MSD	HWG0129-03	TCLP	Solid	1311	
HWG0129-02	WC-01	TCLP	Solid/Soil	1311	
LCS 580-141394/2-B	Lab Control Sample	TCLP	Solid	1311	
LCS 580-141394/2-C	Lab Control Sample	TCLP	Solid	1311	
LCSD 580-141394/3-B	Lab Control Sample Dup	TCLP	Solid	1311	
LCSD 580-141394/3-C	Lab Control Sample Dup	TCLP	Solid	1311	
MB 580-141394/1-B	Method Blank	TCLP	Solid	1311	
MB 580-141394/1-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 141523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-39562-A-8-D DU	Duplicate	TCLP	Solid	3010A	141394
580-39562-A-8-E MS	Matrix Spike	TCLP	Solid	3010A	141394
580-39562-A-8-F MSD	Matrix Spike Duplicate	TCLP	Solid	3010A	141394
HWG0129-02	WC-01	TCLP	Solid/Soil	3010A	141394
LCS 580-141394/2-B	Lab Control Sample	TCLP	Solid	3010A	141394
LCSD 580-141394/3-B	Lab Control Sample Dup	TCLP	Solid	3010A	141394
MB 580-141394/1-B	Method Blank	TCLP	Solid	3010A	141394

Prep Batch: 141528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-39574-3 DU	HWG0129-03	TCLP	Solid	7470A	141394
580-39574-3 MS	HWG0129-03	TCLP	Solid	7470A	141394
580-39574-3 MSD	HWG0129-03	TCLP	Solid	7470A	141394
HWG0129-02	WC-01	TCLP	Solid/Soil	7470A	141394
LCS 580-141394/2-C	Lab Control Sample	TCLP	Solid	7470A	141394
LCSD 580-141394/3-C	Lab Control Sample Dup	TCLP	Solid	7470A	141394
MB 580-141394/1-C	Method Blank	TCLP	Solid	7470A	141394

Analysis Batch: 141571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-39574-3 DU	HWG0129-03	TCLP	Solid	7470A	141528
580-39574-3 MS	HWG0129-03	TCLP	Solid	7470A	141528
580-39574-3 MSD	HWG0129-03	TCLP	Solid	7470A	141528
HWG0129-02	WC-01	TCLP	Solid/Soil	7470A	141528
LCS 580-141394/2-C	Lab Control Sample	TCLP	Solid	7470A	141528
LCSD 580-141394/3-C	Lab Control Sample Dup	TCLP	Solid	7470A	141528
MB 580-141394/1-C	Method Blank	TCLP	Solid	7470A	141528

Analysis Batch: 141671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-39562-A-8-D DU	Duplicate	TCLP	Solid	6010B	141523
580-39562-A-8-E MS	Matrix Spike	TCLP	Solid	6010B	141523
580-39562-A-8-F MSD	Matrix Spike Duplicate	TCLP	Solid	6010B	141523
HWG0129-02	WC-01	TCLP	Solid/Soil	6010B	141523
LCS 580-141394/2-B	Lab Control Sample	TCLP	Solid	6010B	141523
LCSD 580-141394/3-B	Lab Control Sample Dup	TCLP	Solid	6010B	141523
MB 580-141394/1-B	Method Blank	TCLP	Solid	6010B	141523

Metals (Continued)

Prep Batch: 141691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HWG0129-01	CF-01	Total/NA	Solid/Soil	7471A	
LCS 580-141691/8-A ^10	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 580-141691/9-A ^10	Lab Control Sample Dup	Total/NA	Solid	7471A	
LCSSRM 580-141691/10-A ^10	Lab Control Sample	Total/NA	Solid	7471A	
MB 580-141691/7-A ^10	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 141715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HWG0129-01	CF-01	Total/NA	Solid/Soil	7471A	141691
LCS 580-141691/8-A ^10	Lab Control Sample	Total/NA	Solid	7471A	141691
LCSD 580-141691/9-A ^10	Lab Control Sample Dup	Total/NA	Solid	7471A	141691
LCSSRM 580-141691/10-A ^10	Lab Control Sample	Total/NA	Solid	7471A	141691
MB 580-141691/7-A ^10	Method Blank	Total/NA	Solid	7471A	141691

Prep Batch: 141726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HWG0129-01	CF-01	Total/NA	Solid/Soil	3050B	
LCS 580-141726/8-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 580-141726/9-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
LCSSRM 580-141726/10-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 580-141726/7-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 141879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HWG0129-01	CF-01	Total/NA	Solid/Soil	6010B	141726
LCS 580-141726/8-A	Lab Control Sample	Total/NA	Solid	6010B	141726
LCSD 580-141726/9-A	Lab Control Sample Dup	Total/NA	Solid	6010B	141726
LCSSRM 580-141726/10-A	Lab Control Sample	Total/NA	Solid	6010B	141726
MB 580-141726/7-A	Method Blank	Total/NA	Solid	6010B	141726

Lab Chronicle

Client: Advanced Compliance Solutions Inc. (ACSI)
Project/Site: C1117

TestAmerica Job ID: HWG0129

Client Sample ID: CF-01

Lab Sample ID: HWG0129-01

Date Collected: 07/25/13 10:05

Matrix: Solid/Soil

Date Received: 07/29/13 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			141685	08/05/13 11:30	WW1	TAL SEA
Total/NA	Analysis	8081A		1	141855	08/07/13 19:13	EKK	TAL SEA
Total/NA	Prep	3550B	DL		141685	08/05/13 11:30	WW1	TAL SEA
Total/NA	Analysis	8081A	DL	10	142180	08/11/13 16:47	SGH	TAL SEA
Total/NA	Prep	8290			22232	08/05/13 13:45	GDB	TAL SAC
Total/NA	Analysis	8290		1	22777	08/12/13 20:31	MEG	TAL SAC
Total/NA	Prep	7471A			141691	08/05/13 12:37	PAB	TAL SEA
Total/NA	Analysis	7471A		10	141715	08/05/13 14:51	FCW	TAL SEA
Total/NA	Prep	3050B			141726	08/05/13 16:06	PAB	TAL SEA
Total/NA	Analysis	6010B		10	141879	08/06/13 13:52	HJM	TAL SEA

Client Sample ID: WC-01

Lab Sample ID: HWG0129-02

Date Collected: 07/25/13 11:07

Matrix: Solid/Soil

Date Received: 07/29/13 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			141394	08/01/13 09:03	RES	TAL SEA
TCLP	Prep	7470A			141528	08/02/13 11:01	PAB	TAL SEA
TCLP	Analysis	7470A		1	141571	08/02/13 13:56	PAB	TAL SEA
TCLP	Leach	1311			141394	08/01/13 09:03	RES	TAL SEA
TCLP	Prep	3010A			141523	08/02/13 10:44	PAB	TAL SEA
TCLP	Analysis	6010B		1	141671	08/02/13 16:48	HJM	TAL SEA

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Certification Summary

Client: Advanced Compliance Solutions Inc. (ACSI) TestAmerica Job ID: HWG0129
Project/Site: C1117

Laboratory: TestAmerica Honolulu

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Florida	NELAP	4	E87907	06-30-14
Hawaii	State Program	9	N/A	06-28-14
USDA	Federal		HON-S-206	01-31-15

Laboratory: TestAmerica Sacramento

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2928-01	01-31-14
Alaska (UST)	State Program	10	UST-055	12-18-13
Arizona	State Program	9	AZ0708	08-11-14
Arkansas DEQ	State Program	6	88-0691	07-30-13 *
California	NELAP	9	1119CA	01-31-14
Colorado	State Program	8	N/A	08-31-13
Connecticut	State Program	1	PH-0691	06-30-15
Florida	NELAP	4	E87570	06-30-14
Guam	State Program	9	N/A	08-31-13
Hawaii	State Program	9	N/A	01-31-14
Illinois	NELAP	5	200060	03-17-14
Kansas	NELAP	7	E-10375	10-31-13
Michigan	State Program	5	9947	01-31-14
Nebraska	State Program	7	NE-OS-22-13	01-31-14
New Jersey	NELAP	2	CA005	06-30-14
New York	NELAP	2	11666	04-01-14
Northern Mariana Islands	State Program	9	MP0007	02-01-14
Oregon	NELAP	10	CA200005	03-28-14
Pennsylvania	NELAP	3	68-01272	03-31-14
South Carolina	State Program	4	87014	06-30-14
Texas	NELAP	6	T104704399-08-TX	05-31-14
US Fish & Wildlife	Federal		LE148388-0	12-31-13
USDA	Federal		P330-11-00436	12-30-14
USEPA UCMR	Federal	1	CA00044	11-06-14
Utah	NELAP	8	QUAN1	01-31-14
Washington	State Program	10	C581	05-05-14
West Virginia	State Program	3	9930C	12-31-13
Wyoming	State Program	8	8TMS-Q	01-31-14

Laboratory: TestAmerica Seattle

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-04-14
California	NELAP	9	01115CA	01-31-14
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-13
USDA	Federal		P330-11-00222	05-20-14
Washington	State Program	10	C553	02-17-14

* Expired certification is currently pending renewal and is considered valid.

Method Summary

Client: Advanced Compliance Solutions Inc. (ACSI)
Project/Site: C1117

TestAmerica Job ID: HWG0129

Method	Method Description	Protocol	Laboratory
8081A	Organochlorine Pesticides (GC)	SW846	TAL SEA
8290	Dioxins and Furans (HRGC/HRMS)	SW846	TAL SAC
6010B	Metals (ICP)	SW846	TAL SEA
7470A	Mercury (CVAA)	SW846	TAL SEA
7471A	Mercury (CVAA)	SW846	TAL SEA

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

TestAmerica
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TestAmerica - Honolulu
99-193 Aiea Heights Drive Suite 121 • Aiea, HI 96701-3900
808-486-LABS (5227) • Fax 808-486-2456

LABORATORY USE ONLY
LAB JOB NO. HWG0129
LOCATION
CONTAINERS

Chain of Custody / Analysis Request Form

Report to: Erin Rietow	Project identification
Company name: Advanced Compliance Solutions, Inc.	Job name: HICDC-NKPMF
Address: 30094 PO Box	Job number: C1117
City: Honolulu State: HI ZIP: 96820	P.O. number
Phone: 989-2823 Fax:	Contact email address: erin.rietow@acsthawaii.com Date results needed: 8/5/13
Sampler: Veronica Gibson # samples in shipment: 3	

Indicate analyses requested

Item no.	Client sample ID	COMP	GRAB	Matrix: Water	Soil	Wastewater	Drinking water	Sludge	Liquid	Solid	Oil	Other	Preservation method	Sampling: Date	Time	No. of containers	Multi-incremental dirt-sampling in lab	Total Metals (RCRA 8)	Organochlorpesticides	Dioxin		TCLP				Laboratory ID no.
1	CF-01	X			X									7/25/13	10:05	1	X	X	X	X	1					HWG0129-01
2	WC-01	X			X									7/25/13	11:07	1	X	X				X				-02
3	WC-02	X			X									7/25/13	11:38	1	X	X				X				-03
4																										
5																										
6																										
7																										
8																										
9																										
10																										

Released by (print / sign)	Date / time released	Delivery method	Received by (print / sign)	Company / Agency affiliation	Date / time received	Condition noted
Erin Rietow / [signature]	7/25/13 15:38	Fed EX	Dignne Moniz / [signature]	Pony Express Mail	07/25/13 3:59pm	
	/		[signature]	TAK	7/29/13 1210	Bottle No Seal 222
	/				/	

Comments: Note; Arsenic values are expected to be ≈ 2,000 mg/Kg take proper precautions when handling sample

Please check one:
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☐ Return to client
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COC REV 08/2006 Distribution: White - TestAmerica Yellow - TestAmerica Pink - Client

Page 1 of 1

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[redacted]

8/19/2013

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Rush TAT Confirmation (Initial/Date) _____

Sample Receipt Checklist

Client Name: ACSI Date/ Time Received: 7/29/13 1210

Received By: JL

Matrices: Soil Carrier: Fedex Airbill# :

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Chain of Custody present?	Yes ☑	No ☐	☐
Chain of Custody Signed when relinquished and received?	Yes ☑	No ☐	
Chain of Custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sample containers on ice?	Yes ☐	No ☑	Type: N/A
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Water - VOA Vials have Zero Headspace?	Yes ☐	No ☐	No VOA vials present: ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Checked: ☑
pH Adjusted?	Yes ☐	No ☑	Final pH:
Encores / MI-VOC / 5035 Vials Present?	Yes ☐	No ☑	Location:
Sample Filtration Needed?	Yes ☐	No ☑	Filtered in Field: ☐
Dry Weight Corrected Results?	Yes ☐	No ☑	Take Action: ☐
DODQSM / QAPP Project?	Yes ☐	No ☑	Type:

Temperature Blank Present? Yes ☐ No ☑

Sample Container Temperature: 22 °C

Comments/ Sampling Handling Notes:

Per discussion with Erin Rietow only perform TCLP RCRA 8 on WC-01 & WC-02. in 7/29/13

Isotope Dilution Summary

Client: Advanced Compliance Solutions Inc. (ACSI)
Project/Site: C1117

TestAmerica Job ID: HWG0129

Method: 8290 - Dioxins and Furans (HRGC/HRMS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		TCDD	TCDF	PeCDD	PeCDF1	HxCDD2	HxCDF1	HpCDD	HpCDF1
Lab Sample ID	Client Sample ID	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)
LCS 320-22232/2-A	Lab Control Sample	84	79	81	79	95	89	87	89
MB 320-22232/1-A	Method Blank	36 *	31 *	28 *	29 *	35 *	35 *	31 *	31 *

		Percent Isotope Dilution Recovery (Acceptance Limits)
		OCDD
Lab Sample ID	Client Sample ID	(40-135)
LCS 320-22232/2-A	Lab Control Sample	87
MB 320-22232/1-A	Method Blank	29 *

Surrogate Legend

TCDD = 13C-2,3,7,8-TCDD
TCDF = 13C-2,3,7,8-TCDF
PeCDD = 13C-1,2,3,7,8-PeCDD
PeCDF1 = 13C-1,2,3,7,8-PeCDF
HxCDD2 = 13C-1,2,3,6,7,8-HxCDD
HxCDF1 = 13C-1,2,3,4,7,8-HxCDF
HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
HpCDF1 = 13C-1,2,3,4,6,7,8-HpCDF
OCDD = 13C-OCDD

Method: 8290 - Dioxins and Furans (HRGC/HRMS)

Matrix: Solid/Soil **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		TCDD	TCDF	PeCDD	PeCDF1	HxCDD2	HxCDF1	HpCDD	HpCDF1
Lab Sample ID	Client Sample ID	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)
HWG0129-01	CF-01	90	83	83	79	102	95	98	94

		Percent Isotope Dilution Recovery (Acceptance Limits)
		OCDD
Lab Sample ID	Client Sample ID	(40-135)
HWG0129-01	CF-01	118

Surrogate Legend

TCDD = 13C-2,3,7,8-TCDD
TCDF = 13C-2,3,7,8-TCDF
PeCDD = 13C-1,2,3,7,8-PeCDD
PeCDF1 = 13C-1,2,3,7,8-PeCDF
HxCDD2 = 13C-1,2,3,6,7,8-HxCDD
HxCDF1 = 13C-1,2,3,4,7,8-HxCDF
HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
HpCDF1 = 13C-1,2,3,4,6,7,8-HpCDF
OCDD = 13C-OCDD

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Honolulu
99-193 Aiea Heights Drive, Suite 121
Aiea, HI 96701
Tel: 808-486-5227

TestAmerica Job ID: HWH0053
Client Project/Site: C1117 HICDC
Client Project Description: Kohala Pesticide Mixing Area

For:
Advanced Compliance Solutions Inc. (ACSI)
PO Box 30094
Honolulu, HI 96820

Attn: Erin Petrosian

Authorized for release by:
8/19/2013 3:02:58 PM

Kristie Reilly, Project Manager
Kristie.Brachmann@testamericainc.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Advanced Compliance Solutions Inc. (ACSI)
Project/Site: C1117 HICDC

TestAmerica Job ID: HWH0053

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Advanced Compliance Solutions Inc. (ACSI)
Project/Site: C1117 HICDC

TestAmerica Job ID: HWH0053

Job ID: HWH0053

Laboratory: TestAmerica Honolulu

Narrative

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory unless otherwise stated in the report. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. TestAmerica Analytical Testing Corporation certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

The Chain(s) of Custody are included and are an integral part of this report. This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(808)486-5227

LABORATORY REPORT

At sample receipt, the cooler/sample was 27 degrees C.
NELAC states that samples which require thermal preservation shall be considered acceptable if the arrival temperature is within 2 degrees C of the required temperature or the method specified range. For samples with a temperature requirement of 4 degrees C, an arrival temperature from 0 degrees C to 6 degrees C meets specifications. Samples that are delivered to the laboratory on the same day that they are collected may not meet these criteria. In these cases, the samples are considered acceptable if there is evidence that the chilling process has begun, such as arrival on ice.

The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

Samples were prepared in accordance with the State of Hawai'i Department of Health Office of Hazard Evaluation and Emergency Response's Technical Guidance Manual for the Implementation of the Hawai`i State Contingency Plan 2009 edition Laboratory Preparation of Multi-Increment Samples.

Laboratory: TestAmerica Portland

Narrative

Receipt
The sample was received on 8/14/2013 9:45 AM; the sample arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 3.2º C.

Metals - Method 6010B:
The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 19273 recovered outside control limits for Se. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. (250-13034-1 MS), (LCS 250-19273/2-A), (MB 250-19227/9-B), H-70012 (250-13034-1), HWH0053 (250-13558-1)

No other analytical or quality issues were noted.

Sample Summary

Client: Advanced Compliance Solutions Inc. (ACSI)
Project/Site: C1117 HICDC

TestAmerica Job ID: HWH0053

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
HWH0053-01	WC-03	Solid/Soil	08/09/13 09:25	08/12/13 12:10

Detection Summary

Client: Advanced Compliance Solutions Inc. (ACSI)
Project/Site: C1117 HICDC

TestAmerica Job ID: HWH0053

Client Sample ID: WC-03 — Lab Sample ID: HWH0053-01

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.89		0.050	0.0094	mg/L	1		6010B	TCLP
Barium	0.24	B	0.010	0.00020	mg/L	1		6010B	TCLP
Cadmium	0.0040	J	0.010	0.00030	mg/L	1		6010B	TCLP
Chromium	0.0096	J	0.010	0.0012	mg/L	1		6010B	TCLP
Lead	0.0049	J	0.050	0.0037	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Advanced Compliance Solutions Inc. (ACSI)
Project/Site: C1117 HICDC

TestAmerica Job ID: HWH0053

Client Sample ID: WC-03

Date Collected: 08/09/13 09:25
Date Received: 08/12/13 12:10

Lab Sample ID: HWH0053-01

Matrix: Solid/Soil

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.89**		0.050	0.0094	mg/L		08/16/13 13:58	08/19/13 15:45	1
Barium	**0.24**	**B**	0.010	0.00020	mg/L		08/16/13 13:58	08/19/13 15:45	1
Cadmium	**0.0040**	**J**	0.010	0.00030	mg/L		08/16/13 13:58	08/19/13 15:45	1
Chromium	**0.0096**	**J**	0.010	0.0012	mg/L		08/16/13 13:58	08/19/13 15:45	1
Lead	**0.0049**	**J**	0.050	0.0037	mg/L		08/16/13 13:58	08/19/13 15:45	1
Selenium	ND	*	0.050	0.0090	mg/L		08/16/13 13:58	08/19/13 15:45	1
Silver	ND		0.020	0.0042	mg/L		08/16/13 13:58	08/19/13 15:45	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000055	mg/L		08/19/13 11:05	08/19/13 15:27	1

QC Sample Results

Client: Advanced Compliance Solutions Inc. (ACSI)
Project/Site: C1117 HICDC

TestAmerica Job ID: HWH0053

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 250-19273/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 19313 — **Prep Batch: 19273**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	1.11		mg/L		111	85 - 115
Barium	5.00	5.29		mg/L		106	85 - 115
Cadmium	0.500	0.546		mg/L		109	85 - 115
Chromium	1.00	1.08		mg/L		108	85 - 115
Lead	1.00	1.06		mg/L		106	85 - 115
Selenium	1.00	1.18	*	mg/L		118	85 - 115
Silver	0.500	0.500		mg/L		100	85 - 115

Lab Sample ID: MB 250-19227/9-B — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 19313 — **Prep Batch: 19273**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.050	0.0094	mg/L		08/16/13 13:58	08/19/13 15:18	1
Barium	0.00816	J	0.010	0.00020	mg/L		08/16/13 13:58	08/19/13 15:18	1
Cadmium	ND		0.010	0.00030	mg/L		08/16/13 13:58	08/19/13 15:18	1
Chromium	ND		0.010	0.0012	mg/L		08/16/13 13:58	08/19/13 15:18	1
Lead	ND		0.050	0.0037	mg/L		08/16/13 13:58	08/19/13 15:18	1
Selenium	ND		0.050	0.0090	mg/L		08/16/13 13:58	08/19/13 15:18	1
Silver	ND		0.020	0.0042	mg/L		08/16/13 13:58	08/19/13 15:18	1

Lab Sample ID: 250-13034-A-1-G MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 19313 — **Prep Batch: 19273**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		1.00	1.14		mg/L		114	75 - 125
Barium	3.8	B	5.00	9.22		mg/L		108	75 - 125
Cadmium	0.0057	J	0.500	0.559		mg/L		111	75 - 125
Chromium	0.0027	J	1.00	1.08		mg/L		107	75 - 125
Lead	0.042	J	1.00	1.13		mg/L		109	75 - 125
Selenium	0.010	J *	1.00	1.21		mg/L		120	75 - 125
Silver	ND		0.500	0.498		mg/L		100	75 - 125

Method: 7470A - Mercury (CVAA)

Lab Sample ID: LCS 250-19296/12-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 19311 — **Prep Batch: 19296**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00500	0.00515		mg/L		103	85 - 115

Lab Sample ID: MB 250-19227/9-C — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 19311 — **Prep Batch: 19296**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000055	mg/L		08/19/13 11:05	08/19/13 15:16	1

QC Association Summary

Client: Advanced Compliance Solutions Inc. (ACSI)
Project/Site: C1117 HICDC

TestAmerica Job ID: HWH0053

Metals

Leach Batch: 19227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
250-13034-A-1-G MS	Matrix Spike	TCLP	Solid	1311	
250-13034-A-1-I MS	Matrix Spike	TCLP	Solid	1311	
HWH0053-01	WC-03	TCLP	Solid/Soil	1311	
MB 250-19227/9-B	Method Blank	TCLP	Solid	1311	
MB 250-19227/9-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 19273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
250-13034-A-1-G MS	Matrix Spike	TCLP	Solid	3005A	19227
HWH0053-01	WC-03	TCLP	Solid/Soil	3005A	19227
LCS 250-19273/2-A	Lab Control Sample	Total/NA	Solid	3005A	
MB 250-19227/9-B	Method Blank	TCLP	Solid	3005A	19227

Prep Batch: 19296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
250-13034-A-1-I MS	Matrix Spike	TCLP	Solid	7470A	19227
HWH0053-01	WC-03	TCLP	Solid/Soil	7470A	19227
LCS 250-19296/12-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 250-19227/9-C	Method Blank	TCLP	Solid	7470A	19227

Analysis Batch: 19311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
250-13034-A-1-I MS	Matrix Spike	TCLP	Solid	7470A	19296
HWH0053-01	WC-03	TCLP	Solid/Soil	7470A	19296
LCS 250-19296/12-A	Lab Control Sample	Total/NA	Solid	7470A	19296
MB 250-19227/9-C	Method Blank	TCLP	Solid	7470A	19296

Analysis Batch: 19313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
250-13034-A-1-G MS	Matrix Spike	TCLP	Solid	6010B	19273
HWH0053-01	WC-03	TCLP	Solid/Soil	6010B	19273
LCS 250-19273/2-A	Lab Control Sample	Total/NA	Solid	6010B	19273
MB 250-19227/9-B	Method Blank	TCLP	Solid	6010B	19273

Lab Chronicle

Client: Advanced Compliance Solutions Inc. (ACSI)
Project/Site: C1117 HICDC

TestAmerica Job ID: HWH0053

Client Sample ID: WC-03

Date Collected: 08/09/13 09:25
Date Received: 08/12/13 12:10

Lab Sample ID: HWH0053-01

Matrix: Solid/Soil

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			19227	08/15/13 13:13	KTN	TAL PRT
TCLP	Prep	7470A			19296	08/19/13 11:05	PJH	TAL PRT
TCLP	Analysis	7470A		1	19311	08/19/13 15:27	PJH	TAL PRT
TCLP	Leach	1311			19227	08/15/13 13:13	KTN	TAL PRT
TCLP	Prep	3005A			19273	08/16/13 13:58	TNL	TAL PRT
TCLP	Analysis	6010B		1	19313	08/19/13 15:45	LQN	TAL PRT

Laboratory References:

TAL PRT = TestAmerica Portland, 9405 SW Nimbus Ave., Beaverton, OR 97008, TEL (503)906-9200

Certification Summary

Client: Advanced Compliance Solutions Inc. (ACSI)
Project/Site: C1117 HICDC

TestAmerica Job ID: HWH0053

Laboratory: TestAmerica Honolulu

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Florida	NELAP	4	E87907	06-30-14
Hawaii	State Program	9	N/A	06-28-14
USDA	Federal		HON-S-206	01-31-15

Laboratory: TestAmerica Portland

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-012	12-26-13
California	State Program	9	2597	09-30-13
Oregon	NELAP	10	OR100021	01-09-14
USDA	Federal		P330-11-00092	02-17-14
Washington	State Program	10	C586	06-23-14

Method Summary

Client: Advanced Compliance Solutions Inc. (ACSI)
Project/Site: C1117 HICDC

TestAmerica Job ID: HWH0053

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PRT
7470A	Mercury (CVAA)	SW846	TAL PRT

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PRT = TestAmerica Portland, 9405 SW Nimbus Ave., Beaverton, OR 97008, TEL (503)906-9200

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Test America Honolulu
99-193 Aiea Heights Drive
Aiea, HI 96701
(808) 486-5227

Regulatory Program: ☐ DW ☐ NPDES ☑ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Erin Petrosian	Site Contact:	Date:	COC No: HWH0053
Advanced Compliance Solutions, Inc	Tel/Fax: (808)989-2823	Lab Contact:	Carrier:	1 of 1 COCs
PO Box 30094	Analysis Turnaround Time			Sampler: Erin Petrosian
Honolulu, HI 96820	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
(808)989-2823	TAT if different from Below _____			Walk-in Client:
(886) 282-6206 FAX	☐ 2 weeks			Lab Sampling:
Project Name: C1117 HICDC	☑ 1 week			
Site: Kohala Pesticide Mixing Area	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	MIS Subsampling	TCLP RCRA 8 Metals	Sample Specific Notes:
WC-03	8/9/2013	9:25	C	soil	1			X	X	HWH0053-01

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4=HNO3, 5=NaOH, 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☑ Archive for _____ Months

Special Instructions/QC Requirements & Comments: Note, Arsenic values are expected to be around 2,000 mg/kg. Take appropriate precautions when handling sample

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	ACSI	8/9/13 0836	Kristie Reilly	TA Hon	8/12/13 12:10 27°C intact no ice.
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.2, dated 04/02/2013

FedEx Express

Tracking Number 8032 7059 6779

1 From

Date 8/9/13

Sender's Name

Phone

Company

Address

Dept/Floor/Suite/Room

City

State

ZIP

2 Your Internal Billing Reference

3 To

Recipient's Name

Phone

Company

Address

We cannot deliver to P.O. boxes or P.O. addresses.

Dept/Floor/Suite/Room

Address

Use this line for the HOLD location address if different from your shipping address

City

State

ZIP

HOLD Weekday

HOLD Saturday

8032 7059 6779

Align top of FedEx Express® Shipping Label here.

Recipients Copy

4 Express Package Service

To most locations.

Note: Service order has changed. Please select carefully.

Packages up to 150 lbs.

For packages over 150 lbs., use the new FedEx Express Freight US Airbill.

Next Business Day

- FedEx First Overnight
- FedEx Priority Overnight
- FedEx Standard Overnight

2 or 3 Business Days

- FedEx 2Day A.M.
- FedEx 2Day
- FedEx Express Saver

5 Packaging

FedEx Envelope* FedEx Pak* FedEx Box FedEx Tube Other

6 Special Handling and Delivery Signature Options

SATURDAY Delivery

No Signature Required

Direct Signature

Indirect Signature

Does this shipment contain dangerous goods?

No Yes Yes Dry Ice

Cargo Aircraft Only

7 Payment Bill to:

Sender Recipient Third Party Credit Card Cash/Check

Obtain recip. Acct. No.

Total Packages Total Weight Credit Card Auth.

644

fedex.com 1.800.GoFedEx 1.800.463.3339

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The World On Time.

MON - 12 AUG PM

PRIORITY OVERNIGHT

DSR

96701

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Rush TAT Confirmation (Initial/Date) _____

Sample Receipt Checklist

Client Name: ACSI **Date/ Time Received:** 8/12/13 1210

Received By: n

Matrices: Soil **Carrier:** Fedex **Airbill# :**

Shipping container/cooler in good condition?	Yes ✓	No ☐	Not Present ☐
Chain of Custody present?	Yes ✓	No ☐	☐
Chain of Custody Signed when relinquished and received?	Yes ✓	No ☐	
Chain of Custody agrees with sample labels?	Yes ✓	No ☐	
Samples in proper container/bottle?	Yes ✓	No ☐	
Sample containers intact?	Yes ✓	No ☐	
Sample containers on ice?	Yes ☐	No ✓	Type: NA
Sufficient sample volume for indicated test?	Yes ✓	No ☐	
All samples received within holding time?	Yes ✓	No ☐	
Water - VOA Vials have Zero Headspace?	Yes ☐	No ☐	No VOA vials present ✓
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Checked: ✓
[illegible]	Yes ☐	No ✓	[illegible]
Encores / MI-VOC / 5035 Vials Present?	Yes ☐	No ✓	Location:
Sample Filtration Needed?	Yes ☐	No ✓	Filtered in Field: ☐
Dry Weight Corrected Results?	Yes ☐	No ✓	Take Action: ☐
DODQSM / QAPP Project?	Yes ☐	No ✓	Type:

Temperature Blank Present? Yes ☐ No ✓

Sample Container Temperature: 27 °C

Comments/ Sampling Handling Notes:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Honolulu
99-193 Aiea Heights Drive, Suite 121
Aiea, HI 96701
Tel: 808-486-5227

TestAmerica Job ID: HWH0091
Client Project/Site: C1117
Client Project Description: HICDC-NKPMA

For:
Advanced Compliance Solutions Inc. (ACSI)
PO Box 30094
Honolulu, HI 96820

Attn: Erin Rietow

Authorized for release by:
8/27/2013 5:18:30 PM
Jimson E. Carr, Service Center Manager
Jimson.Carr@testamericainc.com

Designee for

Kristie Reilly, Project Manager
Kristie.Brachmann@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Advanced Compliance Solutions Inc. (ACSI)
Project/Site: C1117

TestAmerica Job ID: HWH0091

Job ID: HWH0091

Laboratory: TestAmerica Honolulu

Narrative

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory unless otherwise stated in the report. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. TestAmerica Analytical Testing Corporation certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

The Chain(s) of Custody are included and are an integral part of this report. This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(808)486-5227

LABORATORY REPORT

At sample receipt, the cooler/sample was 27 degrees C.
NELAC states that samples which require thermal preservation shall be considered acceptable if the arrival temperature is within 2 degrees C of the required temperature or the method specified range. For samples with a temperature requirement of 4 degrees C, an arrival temperature from 0 degrees C to 6 degrees C meets specifications. Samples that are delivered to the laboratory on the same day that they are collected may not meet these criteria. In these cases, the samples are considered acceptable if there is evidence that the chilling process has begun, such as arrival on ice.

The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

Samples were prepared in accordance with the State of Hawai'i Department of Health Office of Hazard Evaluation and Emergency Response's Technical Guidance Manual for the Implementation of the Hawai`i State Contingency Plan 2009 edition Laboratory Preparation of Multi-Increment Samples.

Laboratory: TestAmerica Seattle

Narrative

Job Narrative
580-39911-1

Comments
No additional comments.

Receipt
The samples were received on 8/23/2013 10:35 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.0º C and 3.3º C.

Metals
No analytical or quality issues were noted.

General Chemistry
No analytical or quality issues were noted.

Sample Summary

Client: Advanced Compliance Solutions Inc. (ACSI)
Project/Site: C1117

TestAmerica Job ID: HWH0091

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
HWH0091-01	WC-01	Solid/Soil	07/25/13 11:07	07/29/13 12:10
HWH0091-02	WC-03	Solid/Soil	08/09/13 09:25	07/29/13 12:10

Detection Summary

Client: Advanced Compliance Solutions Inc. (ACSI)
Project/Site: C1117

TestAmerica Job ID: HWH0091

Client Sample ID: WC-01 — Lab Sample ID: HWH0091-01

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3000		5.8		mg/Kg	10		6010B	Total/NA

Client Sample ID: WC-03 — Lab Sample ID: HWH0091-02

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	930		5.7		mg/Kg	10		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Advanced Compliance Solutions Inc. (ACSI)
Project/Site: C1117

TestAmerica Job ID: HWH0091

Client Sample ID: WC-01

Lab Sample ID: HWH0091-01

Date Collected: 07/25/13 11:07
Matrix: Solid/Soil
Date Received: 07/29/13 12:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3000		5.8		mg/Kg		08/23/13 12:14	08/23/13 20:27	10

Client Sample ID: WC-03

Lab Sample ID: HWH0091-02

Date Collected: 08/09/13 09:25
Matrix: Solid/Soil
Date Received: 07/29/13 12:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	930		5.7		mg/Kg		08/23/13 12:14	08/23/13 20:31	10

QC Sample Results

Client: Advanced Compliance Solutions Inc. (ACSI)
Project/Site: C1117

TestAmerica Job ID: HWH0091

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 580-143316/3-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 143418 — **Prep Batch: 143316**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0		mg/Kg		08/23/13 12:14	08/23/13 20:14	1

Lab Sample ID: LCS 580-143316/4-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 143418 — **Prep Batch: 143316**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic			200	203		mg/Kg		101	80 - 120		

Lab Sample ID: LCSD 580-143316/5-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 143418 — **Prep Batch: 143316**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic			200	193		mg/Kg		97	80 - 120	5	20

QC Association Summary

Client: Advanced Compliance Solutions Inc. (ACSI)
Project/Site: C1117

TestAmerica Job ID: HWH0091

Metals

Prep Batch: 143316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HWH0091-01	WC-01	Total/NA	Solid/Soil	3050B	
HWH0091-02	WC-03	Total/NA	Solid/Soil	3050B	
LCS 580-143316/4-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 580-143316/5-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
MB 580-143316/3-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 143418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HWH0091-01	WC-01	Total/NA	Solid/Soil	6010B	143316
HWH0091-02	WC-03	Total/NA	Solid/Soil	6010B	143316
LCS 580-143316/4-A	Lab Control Sample	Total/NA	Solid	6010B	143316
LCSD 580-143316/5-A	Lab Control Sample Dup	Total/NA	Solid	6010B	143316
MB 580-143316/3-A	Method Blank	Total/NA	Solid	6010B	143316

Lab Chronicle

Client: Advanced Compliance Solutions Inc. (ACSI)
Project/Site: C1117

TestAmerica Job ID: HWH0091

Client Sample ID: WC-01

Lab Sample ID: HWH0091-01

Date Collected: 07/25/13 11:07

Matrix: Solid/Soil

Date Received: 07/29/13 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			143316	08/23/13 12:14	PAB	TAL SEA
Total/NA	Analysis	6010B		10	143418	08/23/13 20:27	HJM	TAL SEA

Client Sample ID: WC-03

Lab Sample ID: HWH0091-02

Date Collected: 08/09/13 09:25

Matrix: Solid/Soil

Date Received: 07/29/13 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			143316	08/23/13 12:14	PAB	TAL SEA
Total/NA	Analysis	6010B		10	143418	08/23/13 20:31	HJM	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Certification Summary

Client: Advanced Compliance Solutions Inc. (ACSI)
Project/Site: C1117

TestAmerica Job ID: HWH0091

Laboratory: TestAmerica Honolulu

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Florida	NELAP	4	E87907	06-30-14
Hawaii	State Program	9	N/A	06-28-14
USDA	Federal		HON-S-206	01-31-15

Laboratory: TestAmerica Seattle

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-04-14
California	NELAP	9	01115CA	01-31-14
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-13
USDA	Federal		P330-11-00222	05-20-14
Washington	State Program	10	C553	02-17-14

Method Summary

Client: Advanced Compliance Solutions Inc. (ACSI)
Project/Site: C1117

TestAmerica Job ID: HWH0091

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL SEA

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

New (Relogged) Workorder Number: HWH0091

REQUEST TO RELOG SAMPLES

(Please submit to sample control with a copy of the COC)

CLIENT: ACSI MATRIX: soil

PREVIOUSLY LOGGED SAMPLES

[X] TAT Change status to: available

Change status as of Day: 8/22/2013 Time: 6:45 AM

[ ] CHANGE ANALYSES

Add Analyses [X] Cancel Analyses [ ]

Project Work Order #: HWG0129, HWH0053

Sample Number	Analyses	New Sample Number
HWG0129-02	Arsenic 10g	-01
HWH0053-02	Arsenic 10g	-02
NA	NA	
NA	NA	
NA	NA	
NA	NA	
NA	NA	
NA	NA	

SAMPLES ON HOLD

Sample Description	Analyses	New Sample Number
NA	NA	
NA	NA	
NA	NA	
NA	NA	
NA	NA	
NA	NA	
NA	NA	
NA	NA	
NA	NA	

Client Authorization (Person/Date/Time): ACSI Erin Petrosian 8/20/2013 8:51 AM

Project Manager: Kristie Reilly

Reilly, Kristie

From: Erin Petrosian [erin.petrosian@acsihawaii.com]
Sent: Tuesday, August 20, 2013 8:51 AM
To: Reilly, Kristie; Carr, Jimson
Cc: wcutler@integral-corp.com; Dennis Poma
Subject: Additional Analysis Request
Follow Up Flag: Follow up
Flag Status: Red

Hi Jim and Kristie,

Could I please request the following additional analyses be performed for Sample Id WC-01 & WC-03:

- ISM subsampling
- Total Arsenic by EPA Method 3050B/6010 or 6020

Please retain the balance of each sample until further instruction. Results should be reported on 1 week TAT.

Let me know if you have any questions,
-Erin

Erin K. Petrosian | Project Manager
Advanced Compliance Solutions, Inc. | www.acsihawaii.com
866 Iwilei Road, Unit #205 | Honolulu, HI 96817
Tel: 808.989.2823 | Fax: 866. 282.6206

WC-01 = HWG0129-02 (7/25/13 11:07)

WC-03 = HWH0053-01 (8/9/13 09:25)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica - Honolulu
99-193 Aiea Heights Drive Suite 121 • Aiea, HI 96701-3900
808-486-LABS (5227) • Fax 808-486-2456

LABORATORY USE ONLY
LAB JOB NO. HWG0129
LOCATION
CONTAINERS

Chain of Custody / Analysis Request Form

Report to: Erin Rietow
Company name: Advanced Compliance Solutions, Inc.
Address: 30094 Po Box
City: Honolulu State: HI ZIP: 96820 96820
Phone: 989-2823 Fax:
Sampler: Veronica Gibson # samples in shipment: 3

Project identification
Job name: HICDC-NKPMF
Job number: C117
P.O. number:
Contact email address: erin.rietow@acsihawaii.com
Date results needed: 8/5/13

Indicate analyses requested

Item no.	Client sample ID	COMP	GRAB	Matrix: Water	Soil	Wastewater	Drinking water	Sludge	Liquid	Solid	Oil	Other	Preservation method	Sampling: Date	Time	No. of containers	Multi-increment dis-sampling in lab	Total Metals (RCRA 8)	Organochlorpesticides	Dioxin	1	TCLP				Laboratory ID no.
1	CF-01	X			X									7/25/13	10:05	1	X	X	X	X	1					HWG0129-01
2	WC-01	X			X									7/25/13	11:07	1	X	X				X				-02
3	WC-02	X			X									7/25/13	11:38	1	X	X				X				-03
4																										
5																										
6																										
7																										
8																										
9																										
10																										

Released by (print / sign)	Date / time released	Delivery method	Received by (print / sign)	Company / Agency affiliation	Date / time received	Condition noted
Erin Rietow / [signature]	7/25/13 15:38	Fed Ex	Digne Mary's [signature]	Pony Express Mail	07/25/13 3:59pm	
	/		[signature]	TA Hon	7/29/13 1210	Bottle Nos. 22-42
	/				/	

Comments: Note; Arsenic values are expected to be ≈ 2,000 mg/Kg take proper precautions when handling sample

Please check one:
☐ Dispose by lab
☐ Return to client
☒ Archive

COC REV 03/2006 Distribution: White - TestAmerica Yellow - TestAmerica Pink - Client

Page 1 of 1

Align top of FedEx Expr

Instructions:

1. Insert shipping document into resealable pouch.
2. Remove adhesive liner from flap and seal.
3. Remove pouch backing.
4. Adhere pouch to front of packaging away from folds or seams.

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TRK# 0200 8032 7059 6930

MON - 29 JUL PM
PRIORITY OVERNIGHT
DSR
96701
HI-US
HNL

97 HNLA

RT 867

Express 8032 7059 6930

1 From
Date
Sender's
Company
Address
City State ZIP

2 Your Internal Billing Reference

3 To
Recipient's Name Phone 808 944 3221
Company
Address
We cannot deliver to P.O. boxes or P.O. ZIP codes.
Address
Use this line for the HOLD location address or for continuation of your shipping address.
City State ZIP 96701-3900

HOLD Weekday
FedEx location address
REQUIRED. NOT available for FedEx First Overnight.

HOLD Saturday
FedEx location address
REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

4 Express Package Service
NOTE Service order has changed. Please select carefully.
FedEx First Overnight
FedEx Priority Overnight
FedEx Standard Overnight

5 Packaging
FedEx Envelope FedEx Pak FedEx Box

6 Special Handling and Delivery Signature Option
SATURDAY Delivery
No Signature Required
Direct Signature
Does this shipment contain dangerous goods?
One box must be checked.
No Yes
Yes
Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

7 Payment Bill to:
Sender
Recipient
Third Party

Total Packages 1 Total Weight 8 lbs.

*Your liability is limited to US$100 unless you declare a higher value. See the current FedEx Service G

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[redacted]

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THE LEADER IN ENVIRONMENTAL TESTING

Rush TAT Confirmation (Initial/Date) _____

Sample Receipt Checklist

Client Name: ACSI Date/ Time Received: 7/29/13 1210

Received By: JL

Matrices: Soil Carrier: Fedex Airbill# :

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Chain of Custody present?	Yes ☑	No ☐	☐
Chain of Custody Signed when relinquished and received?	Yes ☑	No ☐	
Chain of Custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sample containers on ice?	Yes	No ☑	Type: N/A
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Water - VOA Vials have Zero Headspace?	Yes ☐	No ☐	No VOA vials present: ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Checked: ☑
pH Adjusted?	Yes ☐	No ☑	Final pH:
Encores / MI-VOC / 5035 Vials Present?	Yes ☐	No ☑	Location:
Sample Filtration Needed?	Yes ☐	No ☑	Filtered in Field: ☐
Dry Weight Corrected Results?	Yes ☐	No ☑	Take Action: ☐
DODQSM / QAPP Project?	Yes ☐	No ☑	Type:

Temperature Blank Present? Yes ☐ No ☑

Sample Container Temperature: 22 °C

Comments/ Sampling Handling Notes:

Per discussion with Erin Pietow only perform TCLP RCRA 8 on WC-01 & WC-02. in Triplicate

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Test America Honolulu
99-193 Alea Heights Drive
Alea, HI 96701
(808) 486-5227

Regulatory Program: ☐ DW ☐ NPDES ☑ RCRA ☐ Other:

Client Contact	Project Manager: Erin Petrosian	Site Contact:	Date:	COC No: HWH0053
Advanced Compliance Solutions, Inc	Tel/Fax: (808)989-2823	Lab Contact:	Carrier:	1 of 1 COCs
PO Box 30094	Analysis Turnaround Time			Sampler: Erin Petrosian
Honolulu, HI 96820	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
(808)989-2823	TAT if different from Below _____			Walk-in Client:
(886) 282-6206 FAX	☐ 2 weeks			Lab Sampling:
Project Name: C1117 HICDC	☑ 1 week			
Site: Kohala Pesticide Mixing Area	☐ 2 days			Job / SDG No.:
PO #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	MIS Subsampling	TCLP RCRA 8 Metals	Sample Specific Notes:
WC-03	8/9/2013	9:25	C	soil	1			X	X	HWH0053-01

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☑ Archive for_____ Months

Special Instructions/QC Requirements & Comments: Note, Arsenic values are expected to be around 2,000 mg/kg. Take appropriate precautions when handling sample

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	ACSI	8/9/13 1036	Kristie Reilly [signature]	TA Hon	8/12/13 12:10 27°C in fact no ice.
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.2, dated 04/02/2013

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Recipients Copy

1 From

Date

Sender's Name

Phone

Company

Address

City

State

ZIP

2 Your Internal Billing Reference

3 To

Recipient's Name

Phone

Company

Address

Address

City

State

ZIP

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FedEx 2Day A.M.

FedEx 2Day

FedEx Express Saver

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FedEx Envelope*

FedEx Pak*

FedEx Box

FedEx Tube

Other

6 Special Handling and Delivery Signature Options

SATURDAY Delivery

No Signature Required

Direct Signature

Indirect Signature

Does this shipment contain dangerous goods?

No

Yes

Yes

Dry Ice

Cargo Aircraft Only

7 Payment Bill to:

Sender

Recipient

Third Party

Credit Card

Cash/Check

Obtain recip. Acct. No.

Total Packages

Total Weight

Credit Card Auth.

644

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The World On Time.

MON - 12 AUG PM

PRIORITY OVERNIGHT

DSR

96701

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Rush TAT Confirmation (Initial/Date) _____

Sample Receipt Checklist

Client Name: ACSI Date/ Time Received: 8/12/13 1210

Received By: n

Matrices: Soil Carrier: Fedex Airbill# :

Shipping container/cooler in good condition?	Yes ✓	No ☐	Not Present ☐
Chain of Custody present?	Yes ✓	No ☐	☐
Chain of Custody Signed when relinquished and received?	Yes ✓	No ☐	
Chain of Custody agrees with sample labels?	Yes ✓	No ☐	
Samples in proper container/bottle?	Yes ✓	No ☐	
Sample containers intact?	Yes ✓	No ☐	
Sample containers on ice?	Yes ☐	No ✓	Type: N/A
Sufficient sample volume for indicated test?	Yes ✓	No ☐	
All samples received within holding time?	Yes ✓	No ☐	
Water - VOA Vials have Zero Headspace?	Yes ☐	No ☐	No VOA vials present ✓
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Checked: ✓
[illegible]	Yes ☐	No ✓	[illegible]
Encore / MeOH / EC35 Vials Present?	Yes ☐	No ✓	Location:
Sample Filtration Needed?	Yes ☐	No ✓	Filtered in Field: ☐
Dry Weight Corrected Results?	Yes ☐	No ✓	Take Action: ☐
DODQSM / QAPP Project?	Yes ☐	No ✓	Type:

Temperature Blank Present? Yes ☐ No ✓

Sample Container Temperature: 27 °C

Comments/ Sampling Handling Notes: