

DRAFT REMOVAL ACTION REPORT

**Former Kohala Sugar Company
Pesticide Mixing Site
North Kohala, Hawaii**

VOLUME II OF II

APPENDICES A–E: LABORATORY REPORTS

Prepared for
Hawaii Island Community Development Corporation

Prepared by



Integral Consulting Inc.
285 Century Place
Suite 190
Louisville, CO 80027



ACSI
94-515 Ukee Street
Suite 301
Waipahu, HI 96797

November 21, 2013

APPENDIX A

LABORATORY REPORTS FOR AUGUST 2009 HDOH SAMPLING EVENT

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

Department of Health, HEER Office
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Laura Young

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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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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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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.										
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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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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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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Analyte	Sample Result	Data Qualifiers	Units	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
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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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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	"	"	"	"	"

Department of Health, HEER Office
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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

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.										
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	"	"	"	"	"

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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: HSH0123-02 (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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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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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	"	"	"	"	"
Stiropfos (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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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

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.										
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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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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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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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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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 %	RI, ZI					"	"	"	"
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	"	"	"	"	"

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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.										
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	"	"	"	"	"

Department of Health, HEER Office
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

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	"	"	"

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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		
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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ANALYTICAL REPORT

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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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)					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 %	ZI					"	"	"	"
Surr: Tetrachloro-meta-xylene (50-120%)	102 %						"	"	"	"
Semivolatle 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

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.										
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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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	"	"	"

Department of Health, HEER Office
919 Ala Moana Boulevard, Room 206
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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

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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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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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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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.										
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	"	"	"	"	"

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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: HSH0123-06 (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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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	"	"	"

Department of Health, HEER Office
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

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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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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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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Work Order: HSH0123
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Project Number: Kohala Sugar - PMA

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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

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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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Work Order: HSH0123

Project: Kohala Sugar
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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
Total Metals by SW 846 Series Methods													
<u>Batch\Seq: 9H26011 Extracted: 08/26/09</u>													
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
<u>Batch\Seq: 9H27008 Extracted: 08/27/09</u>													
Blank Analyzed: 08/27/2009 (9H27008-BLK1)													
Mercury			mg/kg	0.000100	0.00500	ND							U
Organophosphorus Pesticides per EPA Method 8141A													
<u>Batch\Seq: 9081026 Extracted: 08/31/09</u>													
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
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LABORATORY DUPLICATE QC DATA

Analyte	Source Result	Spike Level	Units	MDL	MRL	Result	% REC	Dup %REC	% REC Limits	RPD 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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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	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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Project Number: Kohala Sugar - PMA

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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	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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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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LCS/LCS DUPLICATE QC DATA

Analyte	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD 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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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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Work Order: HSH0123

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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													
<u>Batch\Seq: 9H26011 Extracted: 08/26/09</u>													
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			
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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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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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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	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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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	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

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
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		

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
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

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

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

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919 Ala Moana Boulevard, Room 206
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Laura Young

Work Order: HSH0123
Project: Kohala Sugar
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Received: 08/20/09
Reported: 09/21/09 16:17

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.

Chain of Custody / Analysis Request Form

Report to:	Laura Young
Company name:	DOH - HERR
Address:	414 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

Item no.	Client sample ID	GRAB	Matrix										Preservation method	Date	Sampling Time	No. of containers	Laboratory ID no.	
			Water	Soil	Wastewater	Drinking water	Sludge	Liquid	Solid	Oil	Other							
1	KPMA - DV-1	X																
2	KPMA - DV-2																	
3	KPMA - DV-3																	
4	KPMA - DV-4																	
5	KPMA - DV-5																	
6	KPMA - DV-6																	
7																		
8																		
9																		
10																		

Indicate analyses requested	Company / Agency affiliation	Date / time received	Condition noted
Metals 6010	TXH	8/20/09 12:30	NO NO 22-24
SVC 8270			
Drum/Barrels 8270			
Organic Herbicides 8270/8280			
Organic Pesticides 81514			
Organic Phosphorus 80814			
Carbamates - Diver 81414			

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

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

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

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

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	Limit	Q
Bio-available Metals													
<u>Batch\Seq: 9I30009 Extracted: 09/30/09</u>													
Blank Analyzed: 10/01/2009 (9I30009-BLK1)													
Arsenic Total			mg/kg		N/A	1.00	ND						

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	Limit	Q
Bio-available Metals													
<u>Batch\Seq: 9I30009 Extracted: 09/30/09</u>													
LCS Analyzed: 10/01/2009 (9I30009-BS1)													
Arsenic Total		100	mg/kg	N/A	1.00	95.5		95		80-120			

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

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

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

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

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

☐ CHANGE ANALYSES

Add Analyses

☒

Cancel Analyses

☐

Project Work Order #: varies

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

SAMPLES ON HOLD

Sample Description	Analyses	New Sample Number
<u>NA</u>	<u>NA</u>	
<u>NA</u>	<u>NA</u>	
<u>NA</u>	<u>NA</u>	
<u>NA</u>	<u>NA</u>	
<u>NA</u>	<u>NA</u>	
<u>NA</u>	<u>NA</u>	
<u>NA</u>	<u>NA</u>	
<u>NA</u>	<u>NA</u>	
<u>NA</u>	<u>NA</u>	

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

Project Manager: Marvin Heskett

Chain of Custody / Analysis Request Form

Report to: Laura Young

Company name: DOH - HERR

Address: 919 Ala Moana Blvd #206

City: Honolulu State: HI ZIP: 96814

Phone: 808-586-4249 Fax: 586-7537

Sampler: 6 # samples in shipment

Contact email address: Laura.Young@doh.hawaii.gov

Date results needed: STAT

Project identification: Kohala Sugar - PMA

Job name: Kohala Sugar - PMA

Job number: 6

P.O. number: 6

Matrix: GRAB

Delivery method: Hand

Received by (print / sign): Laura Young

Date / time released: 8/20/09 12:30

Date / time received: 8/20/09 12:30

Company / Agency affiliation: TXH

Condition noted: NO NO 22-24

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

COC REV 08/2008

Distribution: White - TestAmerica

Yellow - TestAmerica

Pink - Client

Page 1 of 1

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

LABORATORY USE ONLY

LAB JOB NO. MSH0123

LOCATION

CONTAINERS

Indicate analyses requested	Matrix	Preservation method	Date	Time	No. of containers	Laboratory ID no.
☒	GRAB	Other	8/13/09		1	MSH0123-01
☒	GRAB	Other	8/13/09		1	MSH0123-02
☒	GRAB	Other	8/13/09		1	MSH0123-03
☒	GRAB	Other	8/13/09		1	MSH0123-04
☒	GRAB	Other	8/13/09		1	MSH0123-05
☒	GRAB	Other	8/13/09		1	MSH0123-06

Client sample ID	Matrix	Preservation method	Date	Time	No. of containers	Laboratory ID no.
1 K PMA - DV-1	GRAB	Other	8/13/09		1	MSH0123-01
2 K PMA - DV-2	GRAB	Other	8/13/09		1	MSH0123-02
3 K PMA - DV-3	GRAB	Other	8/13/09		1	MSH0123-03
4 K PMA - DV-4	GRAB	Other	8/13/09		1	MSH0123-04
5 K PMA - DV-5	GRAB	Other	8/13/09		1	MSH0123-05
6 K PMA - DV-6	GRAB	Other	8/13/09		1	MSH0123-06

Released by (print / sign)	Date / time released	Delivery method	Received by (print / sign)	Date / time received	Company / Agency affiliation	Condition noted
Laura Young	8/20/09 12:30	Hand	Laura Young	8/20/09 12:30	TXH	NO NO 22-24

LABORATORY USE ONLY
LAB JOB NO. HSK0002
LOCATION _____
CONTAINERS _____

Chain of Custody / Analysis Request Form

Report to: Laura Young - 504, DOH H&ER
Company name: H&ER 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: Hilo Sugar Co. PMAA
Job name: _____ Job number: _____
P.O. number: _____
Contact email address: Laura.Young@doh.hawaii.gov
Date results needed: STAT

Item no.	Client sample ID	COMP	GRAB	Matrix							Preservation method	Date	Time	No. of containers
				Water	Soil	Wastewater	Drinking water	Sewage	Liquid	Solid	Oil			
1	HSC-DU-1	X	X	X								7/29/09	10:00am	1
2	HSC-DU-2	X	X	X									10:00am	1
3	HSC-DU-3	X	X	X									10:35am	1
4	HSC-DU-4	X	X	X									10:40am	1
5	HSC-DU-5	X	X	X									11:00am	1
6	HSC-DU-6	X	X	X									3:30pm	1
7														
8														
9														
10														

Released by (print / sign): Laura Young / [Signature] Date / time released: 7/29/09 12:50
Received by (print / sign): [Signature] Date / time received: 7/31/09 12:50
Delivery method: _____ Company / Agency affiliation: TA Non
Condition noted: None

Comments: * - LABS TO FOLLOW - MULTI-INCREMENT SAMPLE PROCESURES

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

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

9/24/2009

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

Table of Contents

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

<u>WO#</u>	<u>Sample #</u>	<u>Client Sample ID</u>	<u>Sampling Date</u>	<u>Received Date</u>
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%
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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%
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Containers Supplied:

Incremental

Sub-sample (analyze entire content) (E)

11

11

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)

11

11

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)

11

11

Released By

Date/Time

Received By

Date/Time

Released By

Date/Time

Received By

Date/Time

G9H280270

TestAmerica West Sacramento (916) 373 - 5600

Page 1 of 2 6 of 23

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 Dyesk tube

CLIENT TAL- Honolulu PM DA LOG # 60360

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

DATE RECEIVED 8/28/09 TIME RECEIVED 0900 Initials CV Date 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) _____

SHIPPING CONTAINER(S) ☒ TAL ☐ CLIENT ☐ N/A

TEMPERATURE RECORD (IN °C) IR 4 ☐ 5 ☒ OTHER _____

COC #(S) _____

TEMPERATURE BLANK Observed: 5 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.

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)

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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)

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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)

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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

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
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
MB Lot-Sample #: G9I020000-147

Work Order #...: LJ6W31AA

Matrix.....: SOLID

Analysis Date...: 09/05/09

Prep Date.....: 09/02/09

Prep Batch #...: 9245147

Dilution Factor: 1

PARAMETER	RESULT	DETECTION			METHOD
		LIMIT	UNITS		
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.

<u>Client Sample ID</u>	<u>Anatek Sample ID</u>	<u>Method/Prep Method</u>
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

<u>Parameters</u>	<u>Yes / No</u>	<u>Exceptions / Deviations</u>
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

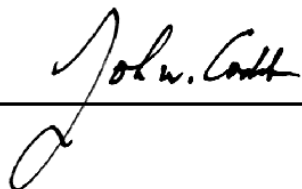
No problems encountered.

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.

1282 Alturas Drive • Moscow, ID 83843 • (208) 883-2839 • Fax (208) 882-9246 • email moscow@anateklabs.com
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	090903003-001	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

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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	090903003-004	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

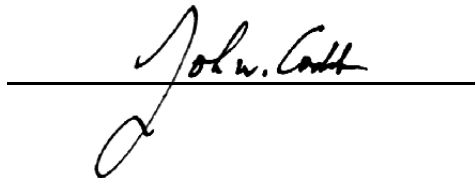
Sample Number	090903003-005	Sampling Date	8/18/2009	Date/Time Received	9/2/2009 11:15 AM
Client Sample ID	HSH0123-05	Sampling Time		Extraction Date	9/9/2009
Matrix	Soil	Sample Location			
Comments	Benomyl is the breakdown product of carbendazim. Carbendazim, if present, is reported as benomyl				

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

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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 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

Anatek Labs, Inc.

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Login Report

Customer Name: TEST AMERICA - HONOLULU, HI

Order ID: 090903003

99-193 AIEA HEIGHTS DRIVE

Order Date: 9/3/2009

AIEA

HI

96701-3900

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	<u>Normal (6-10 Days)</u>
SEMIVOLATILES MISC LC/		EPA 8321A	9/15/2009	<u>Normal (6-10 Days)</u>

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	<u>Normal (6-10 Days)</u>
SEMIVOLATILES MISC LC/		EPA 8321A	9/15/2009	<u>Normal (6-10 Days)</u>

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	<u>Normal (6-10 Days)</u>
SEMIVOLATILES MISC LC/		EPA 8321A	9/15/2009	<u>Normal (6-10 Days)</u>

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	<u>Normal (6-10 Days)</u>
SEMIVOLATILES MISC LC/		EPA 8321A	9/15/2009	<u>Normal (6-10 Days)</u>

Customer Name: TEST AMERICA - HONOLULU, HI

Order ID: 090903003

99-193 AIEA HEIGHTS DRIVE

Order Date: 9/3/2009

AIEA

HI

96701-3900

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	<u>Normal (6-10 Days)</u>
SEMIVOLATILES MISC LC/		EPA 8321A	9/15/2009	<u>Normal (6-10 Days)</u>

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	<u>Normal (6-10 Days)</u>
SEMIVOLATILES MISC LC/		EPA 8321A	9/15/2009	<u>Normal (6-10 Days)</u>

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	1			
Sub-sample (analyze entire content) (F)	3x 207 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	2			
Sub-sample (analyze entire content) (F)	2x 207 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	3			
Sub-sample (analyze entire content) (F)	" "			
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	4			
Sub-sample (analyze entire content) (F)	" "			MOBS
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	5			
Sub-sample (analyze entire content) (F)	" "			
Released By	Date/Time	Received By	Date/Time	
Released By	Date/Time	Received By	Date/Time	

ANATEK LABS RECEIVING LI

- ☒ RECEIVED INTACT
☒ LABELS & CHAINS AGREE
☐ NO HEADSPACE
☐ PRESERVATIVE: N/A

TEMP: 4

NUMBER OF CONTAINERS: 13 SHIPPED VIA: FedEx

DATE & TIME: 9/2/09 INSPECTED BY: TH

11:15

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

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 207 (cr)			

ANALYTICAL REPORT

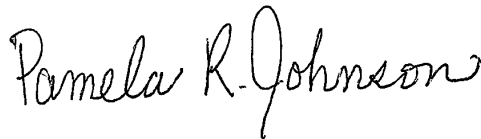
Job Number: 580-15191-1

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

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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.

TestAmerica Laboratories, Inc.

TestAmerica Tacoma 5755 8th Street East, Tacoma, WA 98424
Tel (253) 922-2310 Fax (253) 922-5047 www.testamericainc.com



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

Analytical Data

Client: TestAmerica Laboratories, Inc

Job Number: 580-15191-1

Client Sample ID: HSH0123-01

Lab Sample ID: 580-15191-1

Date Sampled: 08/17/2009 0000

Client Matrix: Solid

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

Analytical Data

Client: TestAmerica Laboratories, Inc

Job Number: 580-15191-1

Client Sample ID: HSH0123-02

Lab Sample ID: 580-15191-2

Date Sampled: 08/17/2009 0000

Client Matrix: Solid

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

Analytical Data

Client: TestAmerica Laboratories, Inc

Job Number: 580-15191-1

Client Sample ID: HSH0123-02

Lab Sample ID: 580-15191-2

Date Sampled: 08/17/2009 0000

Client Matrix: Solid

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

Analytical Data

Client: TestAmerica Laboratories, Inc

Job Number: 580-15191-1

Client Sample ID: HSH0123-03

Lab Sample ID: 580-15191-3

Date Sampled: 08/17/2009 0000

Client Matrix: Solid

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

Analytical Data

Client: TestAmerica Laboratories, Inc

Job Number: 580-15191-1

Client Sample ID: HSH0123-04

Lab Sample ID: 580-15191-4

Date Sampled: 08/18/2009 0000

Client Matrix: Solid

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

Analytical Data

Client: TestAmerica Laboratories, Inc

Job Number: 580-15191-1

Client Sample ID: HSH0123-05

Lab Sample ID: 580-15191-5

Date Sampled: 08/18/2009 0000

Client Matrix: Solid

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

Analytical Data

Client: TestAmerica Laboratories, Inc

Job Number: 580-15191-1

Client Sample ID: HSH0123-06

Lab Sample ID: 580-15191-6

Date Sampled: 08/18/2009 0000

Client Matrix: Solid

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

Quality Control Results

Client: TestAmerica Laboratories, Inc

Job Number: 580-15191-1

Method Blank - Batch: 580-49424

Lab Sample ID: MB 580-49424/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 09/03/2009 0035
Date Prepared: 08/31/2009 1125

Analysis Batch: 580-49562
Prep Batch: 580-49424
Units: ug/Kg

Method: 8151A Preparation: 8151A

Instrument ID: TAC008
Lab File ID: L31969.d
Initial Weight/Volume: 30.0011 g
Final Weight/Volume: 10 mL
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.

Quality Control 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
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 09/03/2009 0059
Date Prepared: 08/31/2009 1125

Analysis Batch: 580-49562
Prep Batch: 580-49424
Units: ug/Kg

Instrument ID: TAC008
Lab File ID: L31970.d
Initial Weight/Volume: 30.0041 g
Final Weight/Volume: 10 mL
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.

Quality Control 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
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 09/03/2009 0122
Date Prepared: 08/31/2009 1125

Analysis Batch: 580-49562
Prep Batch: 580-49424

Instrument ID: TAC008
Lab File ID: L31971.d
Initial Weight/Volume: 30.1899 g
Final Weight/Volume: 10 mL
Injection Volume: 1 uL

MSD Lab Sample ID: 580-15189-B-1-A MSD
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 09/03/2009 0146
Date Prepared: 08/31/2009 1125

Analysis Batch: 580-49562
Prep Batch: 580-49424

Instrument ID: TAC008
Lab File ID: L31972.d
Initial Weight/Volume: 30.0856 g
Final Weight/Volume: 10 mL
Injection Volume: 1 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
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

mel Blue ~~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 207 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 207 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 [Signature]Date/Time
8/27/09Received By [Signature]Date/Time
8/28/09 0930

Released By

Date/Time

Received By

Date/Time

SUBCONTRACT ORDER

TestAmerica Honolulu

HSH0123

Analysis	Units	Due	Expires	Interlab Price	Surch	Comments
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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%	
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Containers Supplied:

Incremental

Sub-sample (analyze
entire content) (D)

11

17

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	

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.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
PSH0869	Kohala Sugar	HSH0123

TestAmerica Portland



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.

TestAmerica Honolulu

99-193 Aiea Heights Drive-Ste. 121
Aiea, HI 96701-3900

Project Name: **Kohala Sugar**
Project Number: HSH0123
Project Manager: Marvin D. Heskett III

Report Created:
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

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.

TestAmerica Honolulu

99-193 Aiea Heights Drive-Ste. 121
Aiea, HI 96701-3900

Project Name: **Kohala Sugar**
Project Number: HSH0123
Project Manager: Marvin D. Heskett III

Report Created:
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	"	"	"	"	"	

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Christina Woodcock, Project Manager

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TestAmerica Honolulu

99-193 Aiea Heights Drive-Ste. 121
Aiea, HI 96701-3900

Project Name: **Kohala Sugar**
Project Number: HSH0123
Project Manager: Marvin D. Heskett III

Report Created:
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	"	"	"	"	"	

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TestAmerica Honolulu

99-193 Aiea Heights Drive-Ste. 121
Aiea, HI 96701-3900

Project Name: **Kohala Sugar**
Project Number: HSH0123
Project Manager: Marvin D. Heskett III

Report Created:
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	"	"	"	"	"	
<i>Surrogate(s): TBP</i>				76.5%		40 - 140 %				"
<i>TPP</i>				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	"	"	"	"	"	
<i>Surrogate(s): TBP</i>				80.5%		40 - 140 %				"
<i>TPP</i>				56.9%		35 - 145 %				"

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Christina Woodcock, Project Manager

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TestAmerica Honolulu

99-193 Aiea Heights Drive-Ste. 121
Aiea, HI 96701-3900

Project Name: **Kohala Sugar**
Project Number: HSH0123
Project Manager: Marvin D. Heskett III

Report Created:
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	"	"	"	"	"	

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99-193 Aiea Heights Drive-Ste. 121
Aiea, HI 96701-3900

Project Name: **Kohala Sugar**
Project Number: HSH0123
Project Manager: Marvin D. Heskett III

Report Created:
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	"	"	"	"	"	
<i>Surrogate(s): TBP</i>				72.0%		40 - 140 %			"	Z3
<i>TPP</i>				37.4%		35 - 145 %			"	Z3

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Christina Woodcock, Project Manager

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TestAmerica Honolulu

99-193 Aiea Heights Drive-Ste. 121
Aiea, HI 96701-3900

Project Name: **Kohala Sugar**
Project Number: HSH0123
Project Manager: Marvin D. Heskett III

Report Created:
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

99-193 Aiea Heights Drive-Ste. 121
Aiea, HI 96701-3900

Project Name: **Kohala Sugar**
Project Number: HSH0123
Project Manager: Marvin D. Heskett III

Report Created:
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 TPP Recovery: 88.2% 74.1% Limits: 40-140% 35-145% 09/11/09 21:53 "														

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 TPP Recovery: 74.9% 37.5% Limits: 40-140% 35-145% 09/11/09 22:23 "														

Z3
Z3

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Christina Woodcock, Project Manager

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TestAmerica Honolulu

99-193 Aiea Heights Drive-Ste. 121
Aiea, HI 96701-3900

Project Name: **Kohala Sugar**
Project Number: HSH0123
Project Manager: Marvin D. Heskett III

Report Created:
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%	"	--	--	"	

TestAmerica Portland



Christina Woodcock, Project Manager

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TestAmerica Honolulu

99-193 Aiea Heights Drive-Ste. 121
Aiea, HI 96701-3900

Project Name: **Kohala Sugar**
Project Number: HSH0123
Project Manager: Marvin D. Heskett III

Report Created:
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	

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Christina Woodcock, Project Manager

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TestAmerica Honolulu

99-193 Aiea Heights Drive-Ste. 121
Aiea, HI 96701-3900

Project Name: **Kohala Sugar**
Project Number: HSH0123
Project Manager: Marvin D. Heskett III

Report Created:
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%	"	"	

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Christina Woodcock, Project Manager

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TestAmerica Honolulu

99-193 Aiea Heights Drive-Ste. 121
Aiea, HI 96701-3900

Project Name: **Kohala Sugar**
Project Number: HSH0123
Project Manager: Marvin D. Heskett III

Report Created:
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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TestAmerica Honolulu

99-193 Aiea Heights Drive-Ste. 121
Aiea, HI 96701-3900

Project Name: **Kohala Sugar**
Project Number: HSH0123
Project Manager: Marvin D. Heskett III

Report Created:
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 Woodcock, Project Manager

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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: 30 °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%	
<i>Containers Supplied:</i> Incremental Sub-sample (analyze entire content) (C) 3x 207 gars						
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%	
<i>Containers Supplied:</i> Incremental Sub-sample (analyze entire content) (C) 2x 207 gars						
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%	
<i>Containers Supplied:</i> Incremental Sub-sample (analyze entire content) (C) 1x 1x						
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%	
<i>Containers Supplied:</i> Incremental Sub-sample (analyze entire content) (C) 1x 1x						
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%	
<i>Containers Supplied:</i> Incremental Sub-sample (analyze entire content) (C) 1x 1x						
Released By	5/27/09		Received By	8/28/09 0835		
Released By	Date/Time		Received By	Date/Time		
Released By	Date/Time		Received By	Date/Time		

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)

2* 207 jers

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: IA - Honolulu HSH0123

Time Zone:
☐ EDT/EST ☐ CDT/CST ☐ MDT/MST ☐ PDT/PST ☐ AK ☒ OTHER HJ

Unpacking Checks:

Cooler #(s): 1
 Temperatures: 30
 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: _____

N/A Yes No

Initials: K

- ☒ ☐ ☐ 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.
- ☒ ☐ ☐ 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.
- ☒ ☒ ☒ 11. Did chain of custody agree with samples received? If no, document on NOD.
- ☐ ☒ ☐ 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.

~~NO DATE & TIME ON SAMPLES~~
~~# OF CONTAINERS~~
~~NOTED~~

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: PS

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

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

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Qualifier Definition/Glossary

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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

Qualifier Definition/Glossary

Client: Weston Solutions, Inc.

Project/Site: Kohala Sugar Company, 12767.063.594.1121

TestAmerica Job ID: HTL0133

SDG: HTL0133

Glossary (Continued)

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

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Case Narrative

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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 were 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 were 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.

TestAmerica Job ID: HTL0133

Project/Site: Kohala Sugar Company, 12767.063.594.1121

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

TestAmerica Honolulu

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 (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		12	1	610 pg/g	193.61		8290	Total
Total TCDD	610		12		pg/g	193.61		8290	Total
1,2,3,6,7,8-HxCDD	6200		29	0.1	620 pg/g	193.61		8290	Total
1,2,3,7,8,9-HxCDD	1600		29	0.1	160 pg/g	193.61		8290	Total
Total HxCDD	26000		30		pg/g	193.61		8290	Total
1,2,3,4,6,7,8-HpCDD	170000		310	0.01	1700 pg/g	193.61		8290	Total
Total HpCDD	370000		310		pg/g	193.61		8290	Total
OCDD	1600000 E		1900	0.001	1600 pg/g	193.61		8290	Total
Total TCDF	1100		190	6.0	pg/g	193.61		8290	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-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

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-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

TestAmerica Honolulu

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-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

TestAmerica Honolulu

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-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

TestAmerica Honolulu

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-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

TestAmerica Honolulu

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-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

TestAmerica Honolulu

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-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

TestAmerica Honolulu

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-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

TestAmerica Honolulu

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-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

Detection Summary

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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.

TestAmerica Job ID: HTL0133

Project/Site: Kohala Sugar Company, 12767.063.594.1121

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

TestAmerica Honolulu

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 (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

Analytical Data

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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

TestAmerica Honolulu

Analytical Data

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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

TestAmerica Honolulu

Analytical Data

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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

Analytical Data

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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

TestAmerica Honolulu

Analytical Data

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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

TestAmerica Honolulu

02/28/2011

Analytical Data

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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

TestAmerica Honolulu

Analytical Data

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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 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

Date Collected: 12/13/10 14:30

Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-03

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	4.81	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

TestAmerica Honolulu

Analytical Data

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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

TestAmerica Honolulu

Analytical Data

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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

TestAmerica Honolulu

Analytical Data

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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

TestAmerica Honolulu

Analytical Data

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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

TestAmerica Honolulu

Analytical Data

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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

TestAmerica Honolulu

Analytical Data

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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

TestAmerica Honolulu

Analytical Data

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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

TestAmerica Honolulu

Analytical Data

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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

TestAmerica Honolulu

Analytical Data

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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

TestAmerica Honolulu

Analytical Data

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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

TestAmerica Honolulu

Analytical Data

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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

TestAmerica Honolulu

Analytical Data

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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

TestAmerica Honolulu

Analytical Data

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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

TestAmerica Honolulu

Analytical Data

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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

TestAmerica Honolulu

Analytical Data

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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

TestAmerica Honolulu

Analytical Data

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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

TestAmerica Honolulu

Analytical Data

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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

TestAmerica Honolulu

Analytical Data

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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

Analytical Data

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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

TestAmerica Honolulu

Analytical Data

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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

TestAmerica Honolulu

Analytical Data

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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

TestAmerica Honolulu

Analytical Data

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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

TestAmerica Honolulu

Analytical Data

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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

TestAmerica Honolulu

Analytical Data

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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

TestAmerica Honolulu

Analytical Data

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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

TestAmerica Honolulu

Analytical Data

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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

TestAmerica Honolulu

Analytical Data

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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

TestAmerica Honolulu

Analytical Data

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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

TestAmerica Honolulu

Analytical Data

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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

TestAmerica Honolulu

Analytical Data

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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

TestAmerica Honolulu

Analytical Data

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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

TestAmerica Honolulu

Analytical Data

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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

TestAmerica Honolulu

Analytical Data

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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

TestAmerica Honolulu

Analytical Data

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TestAmerica Job ID: HTL0133
SDG: HTL0133

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

TestAmerica Honolulu

Analytical Data

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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

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

TestAmerica Honolulu

Analytical Data

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: 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

TestAmerica Honolulu

Analytical Data

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

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

Analytical Data

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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

TestAmerica Honolulu

Analytical Data

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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

TestAmerica Honolulu

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							

Surrogate Summary

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

NBZ = Nitrobenzene-d5
TPH = Terphenyl-d14

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

Matrix: Solid/Soil

Prep Type: total

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (35-120)	NBZ (30-120)	TPH (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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCB (45-120)	TCX (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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		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)							
Lab Sample ID	Client Sample ID	TCDD (40-135)	PeCDD (40-135)	HxCDD2 (40-135)	HpCDD (40-135)	OCDD (40-135)	TCDF (40-135)	PeCDF1 (40-135)	HxCDF1 (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)							
Lab Sample ID	Client Sample ID	HpCDF1 (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)							
Lab Sample ID	Client Sample ID	TCDD (40-135)	PeCDD (40-135)	HxCDD2 (40-135)	HpCDD (40-135)	OCDD (40-135)	TCDF (40-135)	PeCDF1 (40-135)	HxCDF1 (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)							
Lab Sample ID	Client Sample ID	HpCDF1 (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							

TestAmerica Honolulu

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) (Continued)

Matrix: Solid/Soil

Prep Type: Total

		Percent Internal Standard Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	HpCDF1 (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)							
Lab Sample ID	Client Sample ID	TCDD (40-135)	PeCDD (40-135)	HxCDD2 (40-135)	HpCDD (40-135)	OCDD (40-135)	TCDF (40-135)	PeCDF1 (40-135)	HxCDF1 (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)							
Lab Sample ID	Client Sample ID	HpCDF1 (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)							
Lab Sample ID	Client Sample ID	TCDD (40-135)	PeCDD (40-135)	HxCDD2 (40-135)	HpCDD (40-135)	OCDD (40-135)	TCDF (40-135)	PeCDF1 (40-135)	HxCDF1 (40-135)
HTL0133-05	EQ-1	75	77	84	84	76	74	83	75
		Percent Internal Standard Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	HpCDF1 (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

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Quality Control Data

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

Lab Sample ID: 11B0044-BLK1

Matrix: Solid/Soil

Analysis Batch: 11B0044

Client Sample ID: 11B0044-BLK1

Prep Type: total

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

Matrix: Solid/Soil

Analysis Batch: 11B0044

Client Sample ID: 11B0044-BS1

Prep Type: total

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

Matrix: Solid/Soil

Analysis Batch: 11B0044

Client Sample ID: DU-9-2

Prep Type: total

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

Matrix: Solid/Soil

Analysis Batch: 11B0044

Client Sample ID: DU-9-2

Prep Type: total

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

Matrix: Water - NonPotable

Analysis Batch: 10L0158

Client Sample ID: 10L0158-BLK1

Prep Type: total

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

TestAmerica Honolulu

Quality Control Data

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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

Lab Sample ID: 10L0158-BLK1
Matrix: Water - NonPotable
Analysis Batch: 10L0158

Client Sample ID: 10L0158-BLK1
Prep Type: total
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
Matrix: Water - NonPotable
Analysis Batch: 10L0158

Client Sample ID: 10L0158-BS1
Prep Type: total
Prep Batch: 10L0158_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% 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

Quality Control Data

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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

Lab Sample ID: 10L0158-BSD1

Matrix: Water - NonPotable

Analysis Batch: 10L0158

Client Sample ID: 10L0158-BSD1

Prep Type: total

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		Limits
	% Recovery	Qualifier	
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

Matrix: Soil

Analysis Batch: 10L2992

Client Sample ID: 10L2992-BLK1

Prep Type: total

Prep Batch: 10L2992_P

Analyte	Blank		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
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

TestAmerica Honolulu

Quality Control Data

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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

Lab Sample ID: 10L2992-BLK1
Matrix: Soil
Analysis Batch: 10L2992

Client Sample ID: 10L2992-BLK1
Prep Type: total
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
Matrix: Soil
Analysis Batch: 10L2992

Client Sample ID: 10L2992-BS1
Prep Type: total
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
Matrix: Soil
Analysis Batch: 10L2992

Client Sample ID: DU-07
Prep Type: total
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

TestAmerica Honolulu

Quality Control Data

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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

Lab Sample ID: 10L2992-MS1

Matrix: Soil

Analysis Batch: 10L2992

Client Sample ID: DU-07

Prep Type: total

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	Matrix Spike Limits						
2-Fluorobiphenyl	81		35 - 120						
Nitrobenzene-d5	86		30 - 120						
Terphenyl-d14	96		40 - 135						

Lab Sample ID: 10L2992-MSD1

Matrix: Soil

Analysis Batch: 10L2992

Client Sample ID: DU-07

Prep Type: total

Prep Batch: 10L2992_P

	Sample	Sample	Spike	Matrix Spike Dup	Matrix Spike Dup			% Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	% Rec	Limits	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
	Matrix Spike Dup	Matrix Spike Dup									
Surrogate	% Recovery	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

Matrix: Water

Analysis Batch: 10L3249

Client Sample ID: 10L3249-BLK1

Prep Type: total

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

TestAmerica Honolulu

Quality Control Data

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) (Continued)

Lab Sample ID: 10L3249-BLK1

Matrix: Water

Analysis Batch: 10L3249

Client Sample ID: 10L3249-BLK1

Prep Type: total

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

Matrix: Water

Analysis Batch: 10L3249

Client Sample ID: 10L3249-BS1

Prep Type: total

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

Quality Control Data

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) (Continued)

Lab Sample ID: 10L3249-BSD1

Matrix: Water

Analysis Batch: 10L3249

Client Sample ID: 10L3249-BSD1

Prep Type: total

Prep Batch: 10L3249_P

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec.		RPD	Limit
							Limits	RPD		
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		Limits
	% Recovery	Qualifier	
Decachlorobiphenyl	97		45 - 120
Tetrachloro-m-xylene	69		35 - 115

Lab Sample ID: 11B0583-BLK1

Matrix: Soil

Analysis Batch: 11B0583

Client Sample ID: 11B0583-BLK1

Prep Type: total

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

TestAmerica Honolulu

Quality Control Data

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)

Lab Sample ID: 11B0583-BLK1

Matrix: Soil

Analysis Batch: 11B0583

Client Sample ID: 11B0583-BLK1

Prep Type: total

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

Matrix: Soil

Analysis Batch: 11B0583

Client Sample ID: 11B0583-BS1

Prep Type: total

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

Matrix: Soil

Analysis Batch: 11B0583

Client Sample ID: DU-13-4

Prep Type: total

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

TestAmerica Honolulu

Quality Control Data

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)

Lab Sample ID: 11B0583-MS1

Matrix: Soil

Analysis Batch: 11B0583

Client Sample ID: DU-13-4

Prep Type: total

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

Matrix: Soil

Analysis Batch: 11B0583

Client Sample ID: DU-13-4

Prep Type: total

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	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

Matrix: Soil

Analysis Batch: 11B3315

Client Sample ID: 11B3315-BLK1

Prep Type: total

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

TestAmerica Honolulu

Quality Control Data

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)

Lab Sample ID: 11B3315-BLK1

Matrix: Soil

Analysis Batch: 11B3315

Client Sample ID: 11B3315-BLK1

Prep Type: total

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

Matrix: Soil

Analysis Batch: 11B3315

Client Sample ID: 11B3315-BS1

Prep Type: total

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

Quality Control Data

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)

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

TestAmerica Honolulu

Quality Control Data

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) (Continued)

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
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

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
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

TestAmerica Honolulu

Quality Control Data

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) (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

TestAmerica Honolulu

Quality Control Data

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) (Continued)

Lab Sample ID: G1A070000091C
Matrix: Water
Analysis Batch: 1007091

Client Sample ID: CHECK SAMPLE
Prep Type: Total
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
Matrix: Solid/Soil
Analysis Batch: 11A0058

Client Sample ID: 11A0058-BLK1
Prep Type: total
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
Matrix: Solid/Soil
Analysis Batch: 11A0058

Client Sample ID: 11A0058-BS1
Prep Type: total
Prep Batch: 11A0058_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% 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
Matrix: Solid/Soil
Analysis Batch: 11A0058

Client Sample ID: HTL0134-01
Prep Type: total
Prep Batch: 11A0058_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% 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
Matrix: Solid/Soil
Analysis Batch: 11A0058

Client Sample ID: HTL0134-01
Prep Type: total
Prep Batch: 11A0058_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	Limits	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

TestAmerica Honolulu
02/28/2011

Quality Control Data

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

Method: EPA 6010 - Total Metals by EPA Method 6010/7471 (Continued)

Lab Sample ID: 11A0058-MSD1

Matrix: Solid/Soil

Analysis Batch: 11A0058

Client Sample ID: HTL0134-01

Prep Type: total

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

Matrix: Solid/Soil

Analysis Batch: 11B0039

Client Sample ID: 11B0039-BLK1

Prep Type: total

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

Matrix: Solid/Soil

Analysis Batch: 11B0039

Client Sample ID: 11B0039-BS1

Prep Type: total

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

Matrix: Solid/Soil

Analysis Batch: 11B0039

Client Sample ID: DU-07

Prep Type: total

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

Matrix: Solid/Soil

Analysis Batch: 11B0039

Client Sample ID: DU-07

Prep Type: total

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

Matrix: Water

Analysis Batch: 10L3274

Client Sample ID: 10L3274-BLK1

Prep Type: total

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

Quality Control Data

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

Method: EPA 6010B - METALS (Continued)

Lab Sample ID: 10L3274-BS1

Matrix: Water

Analysis Batch: 10L3274

Client Sample ID: 10L3274-BS1

Prep Type: total

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

Matrix: Water

Analysis Batch: 10L3274

Client Sample ID: ITL2294-01

Prep Type: total

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

Matrix: Water

Analysis Batch: 10L3274

Client Sample ID: ITL2294-01

Prep Type: total

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

Matrix: Water

Analysis Batch: 10L3471

Client Sample ID: 10L3471-BLK1

Prep Type: total

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

Matrix: Water

Analysis Batch: 10L3471

Client Sample ID: 10L3471-BS1

Prep Type: total

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

TestAmerica Honolulu

Quality Control Data

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

Method: EPA 7470A - METALS (Continued)

Lab Sample ID: 10L3471-MS1

Matrix: Water

Analysis Batch: 10L3471

Client Sample ID: ITL2553-01

Prep Type: total

Prep Batch: 10L3471_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	Limits
Mercury	0.101		8.00	8.08		ug/l		100	70 - 130

Lab Sample ID: 10L3471-MSD1

Matrix: Water

Analysis Batch: 10L3471

Client Sample ID: ITL2553-01

Prep Type: total

Prep Batch: 10L3471_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	Limits	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

Matrix: Solid/Soil

Analysis Batch: 11A0014

Client Sample ID: 11A0014-BLK1

Prep Type: total

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

Matrix: Solid/Soil

Analysis Batch: 11A0014

Client Sample ID: 11A0014-BS1

Prep Type: total

Prep Batch: 11A0014_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	Limits
Mercury	0.524	0.563		mg/kg wet		108	80 - 120

Lab Sample ID: 11A0014-MS1

Matrix: Solid/Soil

Analysis Batch: 11A0014

Client Sample ID: DU-07

Prep Type: total

Prep Batch: 11A0014_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	Limits
Mercury	0.569		0.761	1.43		mg/kg dry	✱	113	75 - 125

Lab Sample ID: 11A0014-MSD1

Matrix: Solid/Soil

Analysis Batch: 11A0014

Client Sample ID: DU-07

Prep Type: total

Prep Batch: 11A0014_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	Limits	RPD	Limit
Mercury	0.569		0.740	1.38		mg/kg dry	✱	109	75 - 125	4	20

QC Association Summary

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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	

TestAmerica Honolulu

QC Association Summary

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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	

QC Association Summary

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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	

QC Association Summary

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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	

QC Association Summary

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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	

QC Association Summary

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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	

QC Association Summary

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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	

QC Association Summary

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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

QC Association Summary

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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	

QC Association Summary

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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	

QC Association Summary

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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	

QC Association Summary

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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	

QC Association Summary

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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	

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-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		1.00	11B0063_P	12/30/10 09:31	X	TestAmerica Honolulu
total	Analysis	GenChem		1.00	11B0063	12/30/10 09:34	MDH	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

TestAmerica Honolulu

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-8

Date Collected: 12/13/10 16:45

Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-02

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		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

Date Collected: 12/13/10 14:30

Date Received: 12/17/10 15:05

Lab Sample ID: HTL0133-03

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		0.904	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

TestAmerica Honolulu

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-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

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

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

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

Lab Chronicle

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

TestAmerica Job ID: HTL0133
SDG: HTL0133

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

TestAmerica Honolulu

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-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 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-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 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

TestAmerica Honolulu

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-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

TestAmerica Honolulu

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-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

TestAmerica Honolulu

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-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		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-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

TestAmerica Honolulu

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-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

TestAmerica Honolulu

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-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

TestAmerica Honolulu

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		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: 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

Chain of Custody / Analysis Request Form

Report to: Ben Castellana
Company name: Western Solutions
Address: 428 13th St 6th Floor, Unit B
City: Oakland State: CA ZIP: 94612
Phone: 818.350.7309 Fax: 818.350.7309
Sampler: ACR, SDF # samples in shipment: 15

Project identification
Job name: Kahala Sugar Plantation
Job number: 12612767.063.594.1121
P.O. number: Ben. Castellana @ Western Solutions .com
Contact email address: Ben. Castellana @ Western Solutions .com
Date results needed: 12/16/10

Indicate analyses requested
Path-Sims (82704) ☒ Pesticides (8081) ☒ Diakin/Furans (8290 - Who 2008) ☒

Matrix
Water ☒ Wastewater ☒ Drinking water ☒ Sludge ☒ Liquid ☒ Solid ☒ Oil ☒ Other ☒

Client sample ID
Item no. 1 DU-07 2 DU-8 3 DU-18 4 DU-19 5 EQ-1 6 DU-10 7 DU-5-2 8 DU-6-2 9 DU-9-2 10 EQ-2

Delivery method
COMP GRAB

Preservation method
ICE

Sampling
Date 12/13/10 1045 12/13/10 1645 12/13/10 1430 12/13/10 1755 12/13/10 1710 12/14/10 1020 12/14/10 1145 12/14/10 1350 12/14/10 1500 12/14/10 1510

No. of containers
1 1 1 1 4 1 1 1 1 3

Condition noted
MS/MSD -08 -09 -10

Date / time released
12/16/10 1100

Date / time received
12/16/10 15:05

Company / Agency affiliation
TestAmerica

Comments: See Attachment

Released by (print / sign)
Anthony Rodriguez / [Signature]

Received by (print / sign)
M. Kalot / [Signature]

White - TestAmerica

Yellow - TestAmerica

Pink - Client

Page 1 of 2

COC REV 02/2008

02/28/2011

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

Chain of Custody / Analysis Request Form

Report to: Ben Castellana

Company name <u>Western Solutions</u>		Project identification <u>Kakala Sugar Plantation</u>	
Address <u>428 13th St 6th Floor, Unit B</u>		Job name <u>Kakala Sugar Plantation</u>	
City <u>Oakland</u>		Job number <u>12767.063.594.1121</u>	
State <u>CA</u>		P.O. number <u>94612</u>	
Phone <u>818.350.7309</u>		Contact email address <u>Ben.Castellana@westernsolutions.com</u>	
Fax <u>A22, SDF</u>		Date results needed <u>15</u>	
Samples <u>15</u>		# samples in shipment <u>15</u>	

Item no.	Client sample ID	COMP	GRAB	Matrix							Preservation method	Sampling		No. of containers	Indicate analyses requested	Laboratory ID no.
				Water	Soil	Wastewater	Drinking water	Sediment	Liquid	Solid	Other	Date	Time			
1	DA-13-4		X	X							ICE	12/15/10	1130	1	X	4710733-11
2	DA-12-4		X	X							ICE	12/15/10	1150	1	X	-12
3	EQ-3		X	X							Various	12/15/10	1205	3	X	-13
4	DA-11		X	X							ICE	12/15/10	1505	1	X	-14
5	DA-20		X	X							ICE	12/15/10	1610	1	X	-15
6	TS-1		X	X							Various	12/15/10	1700	3	X	-16
7																-17
8																
9																
10																

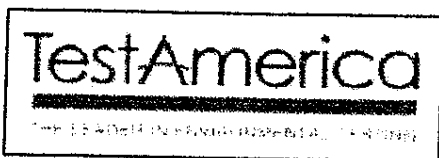
Released by (print / sign) <u>Anthony Rodriguez</u>	Date / time released <u>12/16/10 1100</u>	Delivery method <u>Hand</u>	Received by (print / sign) <u>MHeskett</u>	Date / time received <u>12/17/10 15:05</u>	Company / Agency affiliation <u>TestAmerica</u>	Condition noted <u>Label 2°C</u>
Comments: <u>See Attachment</u>						

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

COC REV 06/2008

Distribution: White - TestAmerica Yellow - TestAmerica Pink - Client

Page 2 of 2



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: <u>wet</u>
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 Substrate Samples ONLY:

ON CHAIN OF Custody / ANALYSIS Request Form —

Request that mercury and SVOCs sub-samples
be sub-sampled wet & wet sieved to $< 2 \text{ mm}$ before analysis.

~~(Balance of entire sample can also request a~~
moisture analysis sample for these analyses.

(Balance of entire MRS sample can be
air dried, sieved with standard sieve ($< 2 \text{ mm}$),
and sub-sampled for other metals,
Dioxins/Furans, and organochlorine pesticides.

→ Add note regarding arsenic analysis: After
Total Arsenic Results are available, please
send to John Pennel^(Hazardous) and Ben Castellana
(Wenton Project Manager) who will review and
let LAB know which ~~ones are~~ samples are
also to be ~~run for~~ sub-sampled again,
sieved to $< 250 \text{ microns}$, 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

LINKS

Review your project
results through

TotalAccess

Have a Question?



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.

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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.

Case Narrative

Client: Department of Health, HEER Office
Project/Site: [none]

TestAmerica Job ID: HTL0124
SDG: HTL0124

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

TestAmerica Honolulu

Detection Summary

Client: Department of Health, HEER Office
Project/Site: [none]

TestAmerica Job ID: HTL0124
SDG: HTL0124

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

TestAmerica Honolulu

Detection Summary

Client: Department of Health, HEER Office
Project/Site: [none]

TestAmerica Job ID: HTL0124
SDG: HTL0124

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

Detection Summary

Client: Department of Health, HEER Office
Project/Site: [none]

TestAmerica Job ID: HTL0124
SDG: HTL0124

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					

Analytical Data

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

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 - 130				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

TestAmerica Honolulu

Analytical Data

Client: Department of Health, HEER Office
Project/Site: [none]

TestAmerica Job ID: HTL0124
SDG: HTL0124

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
D											
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
F											
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
F											
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

TestAmerica Honolulu

Analytical Data

Client: Department of Health, HEER Office
Project/Site: [none]

TestAmerica Job ID: HTL0124
SDG: HTL0124

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

TestAmerica Honolulu

Analytical Data

Client: Department of Health, HEER Office
Project/Site: [none]

TestAmerica Job ID: HTL0124
SDG: HTL0124

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-HpCD	11000		160	92	0.01	110	pg/g		12/29/10 18:00	01/06/11 18:18	32.25
D											
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
F											
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
F											
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

TestAmerica Honolulu

Analytical Data

Client: Department of Health, HEER Office
Project/Site: [none]

TestAmerica Job ID: HTL0124
SDG: HTL0124

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: 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

Date Collected: 12/13/10 11:15

Date Received: 12/17/10 16:00

Lab Sample ID: HTL0124-03

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		0.00633	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

TestAmerica Honolulu

Analytical Data

Client: Department of Health, HEER Office
Project/Site: [none]

TestAmerica Job ID: HTL0124
SDG: HTL0124

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 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-HpCD	21000		240	90	0.01	210	pg/g		12/29/10 18:00	01/06/11 19:09	47.61
D											
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

TestAmerica Honolulu

Analytical Data

Client: Department of Health, HEER Office
Project/Site: [none]

TestAmerica Job ID: HTL0124
SDG: HTL0124

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: 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-HpCD	6200		240	52	0.01	62	pg/g		12/29/10 18:00	01/06/11 19:09	47.61
F											
1,2,3,4,7,8,9-HpCD	470		240	59	0.01	4.7	pg/g		12/29/10 18:00	01/06/11 19:09	47.61
F											
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

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

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

TestAmerica Honolulu

Analytical Data

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

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

TestAmerica Honolulu

Analytical Data

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

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
D											
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
F											
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
F											
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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (35-120)	NBZ (30-120)	TPH (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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCB (45-120)	tloro-meta- (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)							
Lab Sample ID	Client Sample ID	TCDD (40-135)	PeCDD (40-135)	HxCDD2 (40-135)	HpCDD (40-135)	OCDD (40-135)	TCDF (40-135)	PeCDF1 (40-135)	HxCDF1 (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)							
Lab Sample ID	Client Sample ID	HpCDF1 (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)							
Lab Sample ID	Client Sample ID	TCDD (40-135)	PeCDD (40-135)	HxCDD2 (40-135)	HpCDD (40-135)	OCDD (40-135)	TCDF (40-135)	PeCDF1 (40-135)	HxCDF1 (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)							
Lab Sample ID	Client Sample ID	HpCDF1 (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

Quality Control Data

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

Lab Sample ID: 10L0188-BLK1

Matrix: Solid/Soil

Analysis Batch: 10L0188

Client Sample ID: 10L0188-BLK1

Prep Type: total

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 - 130	12/23/10 09:07	12/29/10 11:23	1

Lab Sample ID: 10L0188-BS1

Matrix: Solid/Soil

Analysis Batch: 10L0188

Client Sample ID: 10L0188-BS1

Prep Type: total

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

TestAmerica Honolulu

Quality Control Data

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 (Continued)

Lab Sample ID: 10L0188-BS1
Matrix: Solid/Soil
Analysis Batch: 10L0188

Client Sample ID: 10L0188-BS1
Prep Type: total
Prep Batch: 10L0188_P

	LCS	LCS	
Surrogate	% Recovery	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	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

	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	Limits	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

TestAmerica Honolulu

Quality Control Data

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 (Continued)

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	Matrix Spike Dup 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	Matrix Spike Dup 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

Matrix: Solid/Soil

Analysis Batch: 10L0171

Client Sample ID: 10L0171-BLK1

Prep Type: total

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	Blank 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

TestAmerica Honolulu

Quality Control Data

Client: Department of Health, HEER Office
Project/Site: [none]

TestAmerica Job ID: HTL0124
SDG: HTL0124

Method: EPA 8081 - Organochlorine Pesticides by EPA Method 8081 (Continued)

Lab Sample ID: 10L0171-BS1

Matrix: Solid/Soil

Analysis Batch: 10L0171

Client Sample ID: 10L0171-BS1

Prep Type: total

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

Matrix: Solid/Soil

Analysis Batch: 10L0171

Client Sample ID: HTL0114-09

Prep Type: total

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

TestAmerica Honolulu

Quality Control Data

Client: Department of Health, HEER Office
Project/Site: [none]

TestAmerica Job ID: HTL0124
SDG: HTL0124

Method: EPA 8081 - Organochlorine Pesticides by EPA Method 8081 (Continued)

Lab Sample ID: 10L0171-MS1

Matrix: Solid/Soil

Analysis Batch: 10L0171

Client Sample ID: HTL0114-09

Prep Type: total

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
Matrix Spike									
Surrogate	% Recovery	Qualifier	Limits						
Decachlorobiphenyl	1060	RL1, Z1, R10	45 - 120						
Tetrachloro-meta-xylene	69		50 - 120						

Lab Sample ID: 10L0171-MSD1

Matrix: Solid/Soil

Analysis Batch: 10L0171

Client Sample ID: HTL0114-09

Prep Type: total

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
Matrix Spike Dup											
Surrogate	% Recovery	Qualifier	Limits								
Decachlorobiphenyl		RL1, Z	45 - 120								
Tetrachloro-meta-xylene	60		50 - 120								

Quality Control Data

Client: Department of Health, HEER Office
Project/Site: [none]

TestAmerica Job ID: HTL0124
SDG: HTL0124

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	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

TestAmerica Honolulu

Quality Control Data

Client: Department of Health, HEER Office
Project/Site: [none]

TestAmerica Job ID: HTL0124
SDG: HTL0124

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

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
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

Matrix: Solid/Soil

Analysis Batch: 10L0192

Client Sample ID: 10L0192-BLK1

Prep Type: total

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

Matrix: Solid/Soil

Analysis Batch: 10L0192

Client Sample ID: 10L0192-BS1

Prep Type: total

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

TestAmerica Honolulu

Quality Control Data

Client: Department of Health, HEER Office
Project/Site: [none]

TestAmerica Job ID: HTL0124
SDG: HTL0124

Lab Sample ID: 10L0192-MS1

Matrix: Solid/Soil

Analysis Batch: 10L0192

Client Sample ID: HTL0100-25

Prep Type: total

Prep Batch: 10L0192_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Matrix Spike 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

Matrix: Solid/Soil

Analysis Batch: 10L0192

Client Sample ID: HTL0100-25

Prep Type: total

Prep Batch: 10L0192_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Matrix Spike Dup 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

Matrix: Solid/Soil

Analysis Batch: 11A0038

Client Sample ID: 11A0038-BLK1

Prep Type: total

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

Matrix: Solid/Soil

Analysis Batch: 11A0038

Client Sample ID: 11A0038-BS1

Prep Type: total

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

Matrix: Solid/Soil

Analysis Batch: 11A0038

Client Sample ID: KHB-DU-14

Prep Type: total

Prep Batch: 11A0038_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Matrix Spike Unit	D	% Rec	% Rec. Limits
Mercury	0.629		0.474	1.10		mg/kg		99	75 - 125

Lab Sample ID: 11A0038-MSD1

Matrix: Solid/Soil

Analysis Batch: 11A0038

Client Sample ID: KHB-DU-14

Prep Type: total

Prep Batch: 11A0038_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Matrix Spike Dup 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
GOL290000201B	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	

QC Association Summary

Client: Department of Health, HEER Office
Project/Site: [none]

TestAmerica Job ID: HTL0124
SDG: HTL0124

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	

QC Association Summary

Client: Department of Health, HEER Office
Project/Site: [none]

TestAmerica Job ID: HTL0124
SDG: HTL0124

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

Date Collected: 12/13/10 15:30

Date Received: 12/17/10 16:00

Lab Sample ID: HTL0124-01

Matrix: Solid/Soil

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	EPA 3550 MS		0.977	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

Date Collected: 12/13/10 10:30

Date Received: 12/17/10 16:00

Lab Sample ID: HTL0124-02

Matrix: Solid/Soil

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	EPA 3550 MS		0.958	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

Date Collected: 12/13/10 11:15

Date Received: 12/17/10 16:00

Lab Sample ID: HTL0124-03

Matrix: Solid/Soil

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	EPA 3550 MS		0.949	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

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	SW846	TAL HON
EPA 8081	Organochlorine Pesticides by EPA Method 8081		TAL HON
8290	Dioxins/Furans, HRGC/HRMS (8290)		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

Chain of Custody / Analysis Request Form

Report to: John Pennel, Hilo Hertz office

Company name: John Pennel, Hilo Hertz office

Address: PO Box 916

City: Hilo State: HI ZIP: 96721-0916

Phone: 933-9921 Fax:

Sampler: John Pennel # samples in shipment: 6

Contact email address: john.pennel@deh.hawaii.gov

Date results needed: STAT

Item no.	Client sample ID	GRAB	Matrix							Preservation method	Time	Date	No. of containers
			Water	Soil	Wastewater	Drinking water	Sludge	Liquid	Solid	Oil			
1	KHB-DU-14	X								ice	3:30pm	12-13	1
2	DU-15	X								ice	10:30pm	12-13	1
3	DU-16	X								ice	11:15pm	12-13	1
4	DU-17	X								ice	12:00pm	12-13	1
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 Pennel	12-13-10 14:15 pm	Hand	STEPHEN FALLON	TestAmerica	12/17/10 15:00	Lab safe 20°C
STEPHEN FALLON	12-16-10 11:00 am	ALOKA AIR CARGO	M. Haslett	TestAmerica	12/17/10 16:00	Intact 2°C

Comments: MIS Procedures. (These are Surface 5012 Simples).

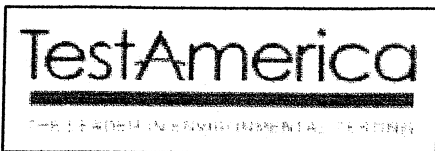
- Bill Analyses to Tetra Tech (then off-site construction) contact John Pennel if problems.

- Send total Analyses Results to John Pennel for decision on which need followup Bio Analyses.

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

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

Page 1 of 1



Rush TAT Confirmation (Initial/Date) N/A

Sample Receipt Checklist

Client Name: Dept of Health HSP Date/ Time Received: 12/17/10 16:00

Received By: NSL

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: <u>ice</u>
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: HUI0059

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?



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: Department of Health, HEER Office
Project/Site: Kohala PMA 2

TestAmerica Job ID: HUJ0059

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)

Case Narrative

Client: Department of Health, HEER Office
Project/Site: Kohala PMA 2

TestAmerica Job ID: HUJ0059

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.

Case Narrative

Client: Department of Health, HEER Office
Project/Site: Kohala PMA 2

TestAmerica Job ID: HUJ0059

Job ID: HUJ0059 (Continued)

Laboratory: TestAmerica Honolulu (Continued)

This analyte was flagged with the "G" qualifier.

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

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: HJ0059

Client Sample ID: KSPMA2-DU-1

Lab Sample ID: HJ0059-01

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: HJ0059-02

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

Detection Summary

Client: Department of Health, HEER Office
Project/Site: Kohala PMA 2

TestAmerica Job ID: HUJ0059

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

Lab Sample ID: HUJ0059-01

Date Collected: 10/12/11 13:30

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	** 3.0	** 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

Lab Sample ID: HUJ0059-01

Date Collected: 10/12/11 13:30

Matrix: Solid/Soil

Date Received: 10/13/11 11:55

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 Results

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

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 Sample Results

Client: Department of Health, HEER Office
Project/Site: Kohala PMA 2

TestAmerica Job ID: HUJ0059

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) (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 Results

Client: Department of Health, HEER Office
Project/Site: Kohala PMA 2

TestAmerica Job ID: HUJ0059

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 Sample Results

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

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: HJ0059

Client Sample ID: KSPMA2-DU-3

Lab Sample ID: HJ0059-03

Date Collected: 10/12/11 14:45

Matrix: Solid/Soil

Date Received: 10/13/11 11:55

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)

Lab Sample ID	Client Sample ID	DCB (49-119)	TCX (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)

Lab Sample ID	Client Sample ID	DCB (49-119)	TCX (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)							
Lab Sample ID	Client Sample ID	TCDD (40-135)	PeCDD (40-135)	HxCDD2 (40-135)	HpCDD (40-135)	OCDD (40-135)	TCDF (40-135)	PeCDF1 (40-135)	HxCDF1 (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)							
Lab Sample ID	Client Sample ID	HpCDF1 (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)							
Lab Sample ID	Client Sample ID	TCDD (40-135)	PeCDD (40-135)	HxCDD2 (40-135)	HpCDD (40-135)	OCDD (40-135)	TCDF (40-135)	PeCDF1 (40-135)	HxCDF1 (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)							
Lab Sample ID	Client Sample ID	HpCDF1 (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

QC Sample Results

Client: Department of Health, HEER Office
Project/Site: Kohala PMA 2

TestAmerica Job ID: HUJ0059

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

QC Sample Results

Client: Department of Health, HEER Office
Project/Site: Kohala PMA 2

TestAmerica Job ID: HUJ0059

Method: 8081A - Pesticides (8081A) (Continued)

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
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	%Recovery	LCS Qualifier	Limits
Decachlorobiphenyl	49		49 - 119
Tetrachloro-m-xylene	45 *		58 - 111

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
Toxaphene	125	127		ug/kg		102	41 - 128

Surrogate	%Recovery	LCS Qualifier	Limits
Decachlorobiphenyl	99		49 - 119
Tetrachloro-m-xylene	92		58 - 111

Lab Sample ID: G1J140465001D

Matrix: Solid

Analysis Batch: 1294137

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total

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	%Recovery	SD1 Qualifier	Limits
Decachlorobiphenyl	101		49 - 119
Tetrachloro-m-xylene	91		58 - 111

QC Sample Results

Client: Department of Health, HEER Office
Project/Site: Kohala PMA 2

TestAmerica Job ID: HUJ0059

Method: 8081A - Pesticides (8081A) (Continued)

Lab Sample ID: G1J140465001S

Matrix: Solid

Analysis Batch: 1294137

Client Sample ID: Matrix Spike

Prep Type: Total

Prep Batch: 1294137_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MS1 Result	MS1 Qualifier	Unit	D	%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
MS1 MS1									
Surrogate	%Recovery	Qualifier	Limits						
Decachlorobiphenyl	93		49 - 119						
Tetrachloro-m-xylene	85		58 - 111						

Lab Sample ID: G1K030000086B

Matrix: Solid

Analysis Batch: 1307086

Client Sample ID: Method Blank

Prep Type: Total

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

QC Sample Results

Client: Department of Health, HEER Office
Project/Site: Kohala PMA 2

TestAmerica Job ID: HUJ0059

Method: 8081A - Pesticides (8081A) (Continued)

Lab Sample ID: G1K030000086B

Matrix: Solid

Analysis Batch: 1307086

Client Sample ID: Method Blank

Prep Type: Total

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	%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

Matrix: Solid

Analysis Batch: 1307086

Client Sample ID: Lab Control Sample

Prep Type: Total

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

Matrix: Solid

Analysis Batch: 1307086

Client Sample ID: Lab Control Sample

Prep Type: Total

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

QC Sample Results

Client: Department of Health, HEER Office
Project/Site: Kohala PMA 2

TestAmerica Job ID: HUU0059

Method: 8081A - Pesticides (8081A) (Continued)

Lab Sample ID: G1J140465001D

Matrix: Solid

Analysis Batch: 1307086

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total

Prep Batch: 1307086_P

Analyte	Sample Result	Sample Qualifier	Spike Added	SD1 Result	SD1 Qualifier	Unit	D	%Rec	Limits	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
SD1 SD1											
Surrogate	%Recovery	Qualifier	Limits								
Decachlorobiphenyl	85		49 - 119								
Tetrachloro-m-xylene	80		58 - 111								

Lab Sample ID: G1J140465001S

Matrix: Solid

Analysis Batch: 1307086

Client Sample ID: Matrix Spike

Prep Type: Total

Prep Batch: 1307086_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MS1 Result	MS1 Qualifier	Unit	D	%Rec	Limits	RPD	Limit
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		

QC Sample Results

Client: Department of Health, HEER Office
Project/Site: Kohala PMA 2

TestAmerica Job ID: HUU0059

Method: 8081A - Pesticides (8081A) (Continued)

Lab Sample ID: G1J140465001S

Matrix: Solid

Analysis Batch: 1307086

Client Sample ID: Matrix Spike

Prep Type: Total

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

Matrix: Solid

Analysis Batch: 1299155

Client Sample ID: Method Blank

Prep Type: Total

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

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
2,3,7,8-TCDD	20.0	23.5		pg/g		118	60 - 138

QC Sample Results

Client: Department of Health, HEER Office
Project/Site: Kohala PMA 2

TestAmerica Job ID: HUI0059

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

QC Sample Results

Client: Department of Health, HEER Office
Project/Site: Kohala PMA 2

TestAmerica Job ID: HUU0059

Method: 6010B - Metals (ICP) (Continued)

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
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

Matrix: Solid

Analysis Batch: 98441

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

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

Matrix: Solid

Analysis Batch: 98441

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98260

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	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

QC Sample Results

Client: Department of Health, HEER Office
Project/Site: Kohala PMA 2

TestAmerica Job ID: HUJ0059

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSD 580-98260/12-A

Matrix: Solid

Analysis Batch: 98441

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

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

Matrix: Solid

Analysis Batch: 98280

Client Sample ID: Method Blank

Prep Type: Total/NA

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

Matrix: Solid

Analysis Batch: 98280

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

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

Matrix: Solid

Analysis Batch: 98280

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

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	

QC Association Summary

Client: Department of Health, HEER Office
Project/Site: Kohala PMA 2

TestAmerica Job ID: HUJ0059

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

Lab Chronicle

Client: Department of Health, HEER Office
Project/Site: Kohala PMA 2

TestAmerica Job ID: HUU0059

Client Sample ID: KSPMA2-DU-1

Date Collected: 10/12/11 13:30

Date Received: 10/13/11 11:55

Lab Sample ID: HUU0059-01

Matrix: Solid/Soil

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

Date Collected: 10/12/11 14:00

Date Received: 10/13/11 11:55

Lab Sample ID: HUU0059-02

Matrix: Solid/Soil

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

Date Collected: 10/12/11 14:45

Date Received: 10/13/11 11:55

Lab Sample ID: HUU0059-03

Matrix: Solid/Soil

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

Date Collected: 10/12/11 14:45

Date Received: 10/13/11 11:55

Lab Sample ID: HUJ0059-03

Matrix: Solid/Soil

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

<u>Client Sample ID</u>	<u>Anatek Sample ID</u>	<u>Method/Prep Method</u>
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

<u>Parameters</u>	<u>Yes / No</u>	<u>Exceptions / Deviations</u>
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:



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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
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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Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C585; MT:Cert0095

Friday, November 04, 2011

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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
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	Method	Percent Recovery	Control Limits
Surrogate Standard				
2,4-Dichlorophenylacetic acid	EPA 8151A	65.7	30-145	

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Attn: MARVIN D HESKETT III

Batch #: 111020054
Project Name: HUJ0059

Analytical Results Report

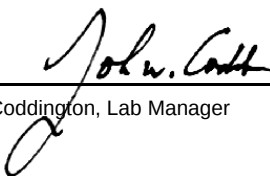
Sample Number	111020054-003	Sampling Date	10/12/2011	Date/Time Received	10/20/2011 12:26 PM
Client Sample ID	HUJ0059-03 (KSPMA2-DU-3 - SOLID/SOIL)	Extraction Date	10/21/2011		
Matrix	Soil	Sampling Time	1:30 PM		
Comments					

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

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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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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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 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:

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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
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	
Hexachlorophene	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	

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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	
Terbutylazine	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
Terphenyl-d14		EPA 8270CMOD	96.9
			Control Limits
			30-140

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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		Extraction Date	10/21/2011
Matrix	Soil	Sampling Time		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	
Hexachlorophene	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
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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	
Terbutylazine	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
Terphenyl-d14		EPA 8270CMOD	97.9
			Control Limits
			30-140

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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		Extraction Date	10/21/2011
Matrix	Soil	Sampling Time		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	
Hexachlorophene	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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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

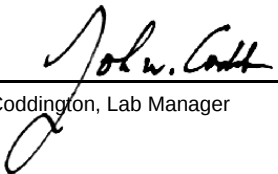
Sample Number	111020054-003	Sampling Date	10/12/2011	Date/Time Received	10/20/2011 12:26 PM
Client Sample ID	HUJ0059-03 (KSPMA2-DU-3 - SOLID/SOIL)	Extraction Date		Extraction Date	10/21/2011
Matrix	Soil	Sampling Time		Sampling Time	1:30 PM
Comments					

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	Method	Percent Recovery	Control Limits
Surrogate Standard				
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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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 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
Terbutylazine	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	Terbutylazine	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:

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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 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
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
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
Hexachlorophene	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:

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Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C585; MT:Cert0095

Friday, November 04, 2011

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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	

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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	

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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
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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	

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Friday, November 04, 2011

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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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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	111020054-003	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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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	111020054-003	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

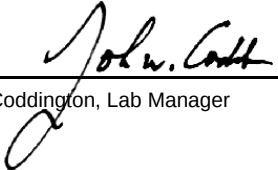
Sample Number	111020054-003	Sampling Date	10/12/2011	Date/Time Received	10/20/2011 12:26 PM
Client Sample ID	HUJ0059-03 (KSPMA2-DU-3 - SOLID/SOIL)	Extraction Date	10/21/2011		
Matrix	Soil	Sampling Time	1:30 PM		
Comments					

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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Friday, November 04, 2011

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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
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:

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

Friday, November 04, 2011

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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 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:

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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: HUIJ0059

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:

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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			10/26/2011
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	

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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	

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

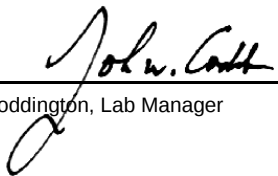
Batch #: 111020054
Project Name: HUJ0059

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.

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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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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

Order ID: 111020054

99-193 AIEA HEIGHTS DRIVE

Order Date: 10/20/2011

AIEA

HI

96701-3900

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	<u>Normal (6-10 Days)</u>
HERBICIDES	M	EPA 8151A	11/1/2011	<u>Normal (6-10 Days)</u>
PEST SCREEN TAHH 8270	M	EPA 8270CMOD	11/1/2011	<u>Normal (6-10 Days)</u>
SEMIVOLATILES 8270	M	EPA 8270C	11/1/2011	<u>Normal (6-10 Days)</u>
SEMIVOLATILES MISC LC/MS/MS	M	EPA 8321A	11/1/2011	<u>Normal (6-10 Days)</u>

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	<u>Normal (6-10 Days)</u>
HERBICIDES	M	EPA 8151A	11/1/2011	<u>Normal (6-10 Days)</u>
PEST SCREEN TAHH 8270	M	EPA 8270CMOD	11/1/2011	<u>Normal (6-10 Days)</u>
SEMIVOLATILES 8270	M	EPA 8270C	11/1/2011	<u>Normal (6-10 Days)</u>
SEMIVOLATILES MISC LC/MS/MS	M	EPA 8321A	11/1/2011	<u>Normal (6-10 Days)</u>

1
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Customer Name: TEST AMERICA - HONOLULU, HI

Order ID: 111020054

99-193 AIEA HEIGHTS DRIVE

Order Date: 10/20/2011

AIEA

HI

96701-3900

Contact Name: MARVIN D HESKETT III

Project Name: HUIJ0059

Comment:

Sample #: 111020054-003 **Customer Sample #:** HUIJ0059-03 (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	<u>Normal (6-10 Days)</u>
HERBICIDES	M	EPA 8151A	11/1/2011	<u>Normal (6-10 Days)</u>
PEST SCREEN TAHH 8270	M	EPA 8270CMOD	11/1/2011	<u>Normal (6-10 Days)</u>
SEMIVOLATILES 8270	M	EPA 8270C	11/1/2011	<u>Normal (6-10 Days)</u>
SEMIVOLATILES MISC LC/MS/MS	M	EPA 8321A	11/1/2011	<u>Normal (6-10 Days)</u>

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:

Incremental

Sub-sample (analyze entire content) (C)

-01

12

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:

Incremental

Sub-sample (analyze entire content) (C)

-02

MWBs

6

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

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: E
DATE & TIME: 10/20/11 12:00 INSPECTED BY: BT

Released By: [Signature] Date/Time: 10/18/11 11:15

Released By: _____ Date/Time: _____

11020 054 TAHH
Last Due 11/1/2011
ST SAMP 10/12/2011 1st RCVD 10/20/2011
UJ0059

Chain of Custody / Analysis Request Form

Report to:	Laura Young		Project identification	
Company name:	State of Hawaii DOW HEER Office		Job name	Kohala Sugar PMA 2
Address	119 Ala Moana Blvd		Job number	
City	Honolulu	State	H1	P.O. number
Phone	(808) 586 7575		City	96816
Sampler	# samples in shipment		Contact email address	laura.young@doh.hawaii.gov
	3		Date results needed	standard

[illegible]

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	for	TA Man	10/13/11 11:55	Letter 2402
						No 812

Comments:	MULTI INCREMENT SAMPLE	lab to dry store prior to subsampling	4g added by Laura Young by email 10/13/11	
COC REV 06/2006	Distribution:	White - TestAmerica	Yellow - TestAmerica	Pink - Client

Please check one:

☐ Dispose by lab

☐ Return to client

☐ Archive

Page 1 of 1

Sample Receipt Checklist

Client Name: Don Heer Date/ Time Received: 10/13/11 1155

Received By: ju

Matrices: Soil

Carrier: Clon

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: <u>NA</u>
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?



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 4.7° 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.

Case Narrative

Client: Advanced Compliance Solutions Inc. (ACSI)
Project/Site: C1117

TestAmerica Job ID: HWG0129

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 2.7° C and 3.5° 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.

TestAmerica Honolulu

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

TestAmerica Honolulu

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

TestAmerica Honolulu

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TCX1 (49-123)	TCX2 (49-123)	DCB1 (40-158)	DCB2 (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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX1 (49-123)	DCB1 (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

TestAmerica Honolulu

QC Sample Results

Client: Advanced Compliance Solutions Inc. (ACSI)
Project/Site: C1117

TestAmerica Job ID: HWG0129

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

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
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

Matrix: Solid

Analysis Batch: 141855

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

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

Matrix: Solid

Analysis Batch: 141855

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

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

TestAmerica Honolulu

QC Sample Results

Client: Advanced Compliance Solutions Inc. (ACSI)
Project/Site: C1117

TestAmerica Job ID: HWG0129

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

	LCSD	LCSD	
Surrogate	%Recovery	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

	MS	MS	
Surrogate	%Recovery	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	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

TestAmerica Honolulu

QC Sample Results

Client: Advanced Compliance Solutions Inc. (ACSI)
Project/Site: C1117

TestAmerica Job ID: HWG0129

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

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
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

Matrix: Solid

Analysis Batch: 142180

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		
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

Matrix: Solid

Analysis Batch: 142180

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
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

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
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

TestAmerica Honolulu

QC Sample Results

Client: Advanced Compliance Solutions Inc. (ACSI)
Project/Site: C1117

TestAmerica Job ID: HWG0129

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

TestAmerica Honolulu

QC Sample Results

Client: Advanced Compliance Solutions Inc. (ACSI)
Project/Site: C1117

TestAmerica Job ID: HWG0129

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

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
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

Matrix: Solid

Analysis Batch: 141879

Client Sample ID: Method Blank

Prep Type: Total/NA

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

Matrix: Solid

Analysis Batch: 141879

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

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

TestAmerica Honolulu

QC Sample Results

Client: Advanced Compliance Solutions Inc. (ACSI)
Project/Site: C1117

TestAmerica Job ID: HWG0129

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	RPD	RPD Limit
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	RPD	RPD Limit
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		

TestAmerica Honolulu

QC Sample Results

Client: Advanced Compliance Solutions Inc. (ACSI)
Project/Site: C1117

TestAmerica Job ID: HWG0129

Method: 6010B - Metals (ICP) (Continued)

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
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

Matrix: Solid

Analysis Batch: 141671

Client Sample ID: Lab Control Sample Dup

Prep Type: TCLP

Prep Batch: 141523

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	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

Matrix: Solid

Analysis Batch: 141671

Client Sample ID: Matrix Spike

Prep Type: TCLP

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

Matrix: Solid

Analysis Batch: 141671

Client Sample ID: Matrix Spike Duplicate

Prep Type: TCLP

Prep Batch: 141523

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	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

Matrix: Solid

Analysis Batch: 141671

Client Sample ID: Duplicate

Prep Type: TCLP

Prep Batch: 141523

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Arsenic	ND		ND		mg/L		NC	20

TestAmerica Honolulu

QC Sample Results

Client: Advanced Compliance Solutions Inc. (ACSI)
Project/Site: C1117

TestAmerica Job ID: HWG0129

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 580-39562-A-8-D DU

Matrix: Solid

Analysis Batch: 141671

Client Sample ID: Duplicate

Prep Type: TCLP

Prep Batch: 141523

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	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

Matrix: Solid

Analysis Batch: 141571

Client Sample ID: Method Blank

Prep Type: TCLP

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

Matrix: Solid

Analysis Batch: 141571

Client Sample ID: Lab Control Sample

Prep Type: TCLP

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

Matrix: Solid

Analysis Batch: 141571

Client Sample ID: Lab Control Sample Dup

Prep Type: TCLP

Prep Batch: 141528

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Mercury	0.0200	0.0174		mg/L		87	80 - 120	3	20

Lab Sample ID: 580-39574-3 MS

Matrix: Solid

Analysis Batch: 141571

Client Sample ID: HWG0129-03

Prep Type: TCLP

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

Matrix: Solid

Analysis Batch: 141571

Client Sample ID: HWG0129-03

Prep Type: TCLP

Prep Batch: 141528

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Mercury	ND		0.0200	0.0182		mg/L		88	80 - 120	1	20

TestAmerica Honolulu

QC Sample Results

Client: Advanced Compliance Solutions Inc. (ACSI)
Project/Site: C1117

TestAmerica Job ID: HWG0129

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 580-39574-3 DU

Matrix: Solid

Analysis Batch: 141571

Client Sample ID: HWG0129-03

Prep Type: TCLP

Prep Batch: 141528

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	ND		ND		mg/L		NC	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 580-141691/7-A ^10

Matrix: Solid

Analysis Batch: 141715

Client Sample ID: Method Blank

Prep Type: Total/NA

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

Matrix: Solid

Analysis Batch: 141715

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

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

Matrix: Solid

Analysis Batch: 141715

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 141691

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Mercury	0.100	0.0991		mg/Kg		99	80 - 120	1	20

Lab Sample ID: LCSSRM 580-141691/10-A ^10

Matrix: Solid

Analysis Batch: 141715

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

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	

TestAmerica Honolulu

QC Association Summary

Client: Advanced Compliance Solutions Inc. (ACSI)
Project/Site: C1117

TestAmerica Job ID: HWG0129

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

TestAmerica Honolulu

QC Association Summary

Client: Advanced Compliance Solutions Inc. (ACSI)
Project/Site: C1117

TestAmerica Job ID: HWG0129

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

Date Collected: 07/25/13 10:05

Date Received: 07/29/13 12:10

Lab Sample ID: HWG0129-01

Matrix: Solid/Soil

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

Date Collected: 07/25/13 11:07

Date Received: 07/29/13 12:10

Lab Sample ID: HWG0129-02

Matrix: Solid/Soil

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)
Project/Site: C1117

TestAmerica Job ID: HWG0129

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.

TestAmerica Honolulu

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 - Honolulu
99-193 Aiea Heights Drive
808-486-LABS (5227) • FAX

Chain of Custody / Analysis Request Form

Report to Erin Rietow	Project identification		
Company name Advanced Compliance Solutions, Inc.	Job name HIEDC-NKPMF		
Address 20094 P6 Box	Job number C1117		
City Hondolulu	P.O. number		
State HI	Contact email address erin.rietow@acshawaii.com	Date results needed 8/5/13	
Phone 809-2823			
Sampler Veronica Gibson	# samples in shipment 3		

[illegible]

Released by (print / sign)	Date / time released	Delivery method	Received by (print / sign)
Erin Kirtow / <i>[Signature]</i>	7/25/15 3:38	Fed Ex	Diane Morris <i>[Signature]</i>
	/		<i>[Signature]</i>
	/		

Comments: Note: Arsenic values are expected to be $\approx 2,000 \text{ mg/kg}$ take proper precautions when handling sample

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

LABORATORY USE ONLY

LAB JOB NO. HWG0129

LOCATION _____

CONTAINERS _____

Indicate analyses requested		Laboratory ID no.	
Multiresidual Sub-Sampling in Lab	X	X	HWG0129-00
Total Mycotoxins (GC/MS)	X	X	-0
Organophosphates	X	X	-0
Dioxin	X		
TCIP			

Company / Agency affiliation	Date / time received	Condition noted
Pony Express Mail	07/25/13 3:59 pm	
TAK	7/29/13 12:10	Path No. 2

Align top of FedEx Expre

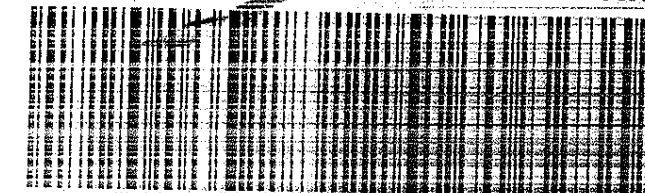
Instructions.

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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Express US Airbill Tracking 8032 7059 6930

1 From
Date 7/27/12
Sender's
Company
Address
City

2 Your Internal Billing Reference

3 To
Recipient's Name
Company
Address
City

4 Express Package Service
NOTE: Service order has changed. Please select carefully.
FedEx First Overnight
FedEx Priority Overnight
FedEx Standard Overnight
FedEx 2-Day
FedEx 3-Day
FedEx 4-Day
FedEx 5-Day
FedEx 6-Day
FedEx 7-Day

5 Packaging
FedEx Envelope
FedEx Pak
FedEx Box

6 Special Handling and Delivery Signature Option
Signature Required
Direct Signature
Does this shipment contain dangerous goods?

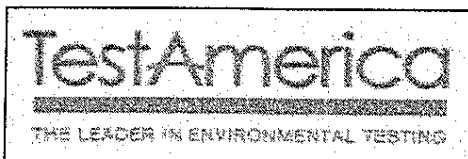
7 Payment/Bill to
Sender
Recipient
Third Party
Total Packages
Total Weight



8032 7059 6930

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8/19/2013



Rush TAT Confirmation (Initial/Date) _____

Sample Receipt Checklist

Client Name: ACSI Date/ Time Received: 7/29/13 1210Received By: uMatrices: SoilCarrier: 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: <u>N/A</u>
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: <u>22</u> °C			

Comments/ Sampling Handling Notes:

Per discussion with Erin Pietow only perform TCEP PCPA 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)							
Lab Sample ID	Client Sample ID	TCDD (40-135)	TCDF (40-135)	PeCDD (40-135)	PeCDF1 (40-135)	HxCDD2 (40-135)	HxCDF1 (40-135)	HpCDD (40-135)	HpCDF1 (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)							
Lab Sample ID	Client Sample ID	OCDD (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)							
Lab Sample ID	Client Sample ID	TCDD (40-135)	TCDF (40-135)	PeCDD (40-135)	PeCDF1 (40-135)	HxCDD2 (40-135)	HxCDF1 (40-135)	HpCDD (40-135)	HpCDF1 (40-135)
HWG0129-01	CF-01	90	83	83	79	102	95	98	94
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	OCDD (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									

TestAmerica Honolulu

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: 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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results through

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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 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.
α	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 3.2° 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

1

2

3

4

5

6

7

8

9

10

11

12

13

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.

TestAmerica Honolulu

Client Sample Results

Client: Advanced Compliance Solutions Inc. (ACSI)
Project/Site: C1117 HICDC

TestAmerica Job ID: HWH0053

Client Sample ID: WC-03

Lab Sample ID: HWH0053-01

Date Collected: 08/09/13 09:25

Matrix: Solid/Soil

Date Received: 08/12/13 12:10

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

Matrix: Solid

Analysis Batch: 19313

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

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

Matrix: Solid

Analysis Batch: 19313

Client Sample ID: Method Blank

Prep Type: TCLP

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

Matrix: Solid

Analysis Batch: 19313

Client Sample ID: Matrix Spike

Prep Type: TCLP

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

Matrix: Solid

Analysis Batch: 19311

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

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

Matrix: Solid

Analysis Batch: 19311

Client Sample ID: Method Blank

Prep Type: TCLP

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

TestAmerica Honolulu

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

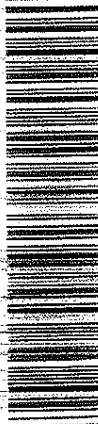
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Express

NEW YORK
8032 7059 4779

1 From
Date 8/1/03
Sender's Name EMILY P. ROSS
Company ROSS, EMILY P.
Address 1000 W. 10TH ST.
City TONAWANDA State NY ZIP 14150

2 Your Internal Billing Reference

3 To
Recipient's Name TONYA L. HIGGINS
Company TONYA L. HIGGINS
Address 1000 W. 10TH ST.
City TONAWANDA State NY ZIP 14150



8032 7059 4779

Align top of FedEx Express Shipping Label here.

Recipient's Copy

Packages up to 150 lbs.
For packages over 150 lbs. use the heavy
FIM (Express Freight) label.

4 Express Package Service

1. To post location:
2. To post location:
3. To post location:
4. To post location:
5. To post location:
6. To post location:
7. To post location:
8. To post location:
9. To post location:
10. To post location:

5 Package Details

1. Package Description
2. Package Dimensions
3. Package Weight
4. Package Value
5. Package Insurance
6. Package Signature
7. Package Signature
8. Package Signature
9. Package Signature
10. Package Signature

6 Special Handling and Delivery Signature Options

1. Signature Required
2. Signature Required
3. Signature Required
4. Signature Required
5. Signature Required
6. Signature Required
7. Signature Required
8. Signature Required
9. Signature Required
10. Signature Required

7 Package Details

1. Package Description
2. Package Dimensions
3. Package Weight
4. Package Value
5. Package Insurance
6. Package Signature
7. Package Signature
8. Package Signature
9. Package Signature
10. Package Signature

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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: <u>NA</u>
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Water - MOA Vials have Zero Headspace?	Yes ☐	No ☐	No MOA vials present ☒
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Checked: ☒
Encores / MLVOC / 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

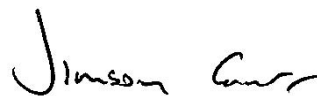
For:

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

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results through

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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: HWH0091

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

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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 2.0° C and 3.3° 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.

TestAmerica Honolulu

Client Sample Results

Client: Advanced Compliance Solutions Inc. (ACSI)
Project/Site: C1117

TestAmerica Job ID: HWH0091

Client Sample ID: WC-01

Date Collected: 07/25/13 11:07

Date Received: 07/29/13 12:10

Lab Sample ID: HWH0091-01

Matrix: Solid/Soil

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

Date Collected: 08/09/13 09:25

Date Received: 07/29/13 12:10

Lab Sample ID: HWH0091-02

Matrix: Solid/Soil

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
Matrix: Solid
Analysis Batch: 143418

Client Sample ID: Method Blank
Prep Type: Total/NA
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
Matrix: Solid
Analysis Batch: 143418

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
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
Matrix: Solid
Analysis Batch: 143418

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
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

Date Collected: 07/25/13 11:07

Date Received: 07/29/13 12:10

Lab Sample ID: HWH0091-01

Matrix: Solid/Soil

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

Date Collected: 08/09/13 09:25

Date Received: 07/29/13 12:10

Lab Sample ID: HWH0091-02

Matrix: Solid/Soil

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

☒ TAT Change status to: available
Change status as of Day: 8/22/2013 Time: 6:45 AM

☐ CHANGE ANALYSES

Add Analyses

☒

Cancel Analyses

☐

Project Work Order #: HWG0129, HWH0053

Sample Number	Analyses	New Sample Number
<u>HWG0129-02</u>	<u>Arsenic 10g</u>	<u>-01</u>
<u>HWH0053-02</u>	<u>Arsenic 10g</u>	<u>-02</u>
<u>NA</u>	<u>NA</u>	
<u>NA</u>	<u>NA</u>	
<u>NA</u>	<u>NA</u>	
<u>NA</u>	<u>NA</u>	
<u>NA</u>	<u>NA</u>	
<u>NA</u>	<u>NA</u>	

SAMPLES ON HOLD

Sample Description	Analyses	New Sample Number
<u>NA</u>	<u>NA</u>	
<u>NA</u>	<u>NA</u>	
<u>NA</u>	<u>NA</u>	
<u>NA</u>	<u>NA</u>	
<u>NA</u>	<u>NA</u>	
<u>NA</u>	<u>NA</u>	
<u>NA</u>	<u>NA</u>	
<u>NA</u>	<u>NA</u>	

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 = HWG6129-02 (7/25/13 11:07)
WC-03 = HWH0053-01 (8/9/13 09:25)

Chain of Custody / Analysis Request Form

LABORATORY USE ONLY
LAB JOB NO. HWG0129
LOCATION _____
CONTAINERS _____

Report to:	Erin Rietow		Project identification	
Company name	Advanced Compliance Solutions, LLC		Job name	HIEDC-NKPMR
Address	21094 Pk Box		Job number	C117
City	Hamblin	State	HI	P.O. number
Phone	808-2823	Fax	808-96820	Contact email address
Sampler	Veronica Gibson	# samples in shipment	3	(Date results received)
			erin.rietow@acslhawaii.com 2/5/13	

[illegible]

Released by (print / sign)	Date / time released	Delivery method	Received by (print / sign)
Erin Kipton / <i>[Signature]</i>	12/13/15:38	Fed Ex	Diane Morris & Associates <i>[Signature]</i>

Comments: Note: Parentic values are expected to be as 2-bonding Ka take proper presen

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

Page 1 of 1

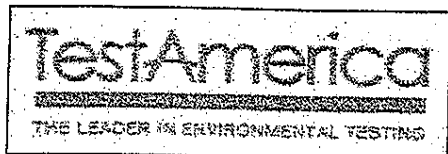
Funk - Client

Yolkay - TestAmerica

White - TestAmerica

Distribution.

COC REV 03/2008



Rush TAT Confirmation (Initial/Date) _____

Sample Receipt Checklist

Client Name: ACSIDate/ Time Received: 7/29/13 1210Received By: uMatrices: SoilCarrier: 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: <u>IVA</u>
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 TELP RCRA 8 on WC-01 & WC-02. in Hains

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Test America Honolulu
99-193 Alea Heights Drive
Alea, HI 96701
(808) 486-5227

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NES ☐ RCRA ☐ Other

Client Contact: Advanced Compliance Solutions, Inc.
PO Box 30084
Honolulu, HI 96820
(808) 989-2823
(886) 282-6206
Project Name: G1117 HICDC
Site: Kohala Pesticide Mixing Area
P.O. #

Project Manager: Erin Petrosian
Tel/Fax: (808) 989-2823
Analysis Turnaround Time
☐ CALENDAR DAYS ☒ WORKING DAYS
TAT if different from below
☐ 2 weeks
☒ 1 week
☐ 2 days
☐ 1 day

Site Contact: Lab Contact: Date: Carrier: COC No: WVH0053
1 of 1 COCs

Sampler: Erin Petrosian
For Lab Use Only:
Walk-in Client:
Lab Sampling:
Job / SDG No.:

Sample Identification: WC-03

Sample Type: (C=Comp, G=Grab) Matrix: Cont. # of Cont.

Sample Date: 8/9/2013 Sample Time: 9:25 C

Sample Specific Notes: WVH0053-01

Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HI, 5=NaOH, 6=Other

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the samples in the Comments Section if the lab is to dispose of the sample.

Comments Section if the lab is to dispose of the sample.

Special Instructions/QC Requirements & Comments: Note: Arsenic values are expected to be around 2,300 mg/kg. Take appropriate precautions when handling sample.

Relinquished by: Relinquished by: Relinquished by:

Company: Company: Company:

Date/Time: Date/Time: Date/Time:

Therm ID No.: Therm ID No.: Therm ID No.:

Relinquished by: Relinquished by: Relinquished by:

Company: Company: Company:

Date/Time: Date/Time: Date/Time:

Therm ID No.: Therm ID No.: Therm ID No.:

Relinquished by: Relinquished by: Relinquished by:

Company: Company: Company:

Date/Time: Date/Time: Date/Time:

Therm ID No.: Therm ID No.: Therm ID No.:

Relinquished by: Relinquished by: Relinquished by:

Company: Company: Company:

Date/Time: Date/Time: Date/Time:

Therm ID No.: Therm ID No.: Therm ID No.:

FedEx
Express

8032 7057 1477

Sender's Name

8032 7057 1477

8032 7057 1477

1 From

2 To

3 Recipient's Name

4 Company

5 Address

6 City

7 State

8 Zip

9 Phone

10 Fax

11 E-mail

12 Internet

13 Signature

14 Date

15 Time

16 Day

17 Month

18 Year

2 Your Internal Tracking Reference

3 To

4 Recipient's Name

5 Company

6 Address

7 City

8 State

9 Zip

10 Phone

11 Fax

12 E-mail

13 Internet

14 Signature

15 Date

16 Time

17 Day

18 Month

19 Year

20 Signature

21 Date

22 Time

23 Day

24 Month

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289 Year

290 Signature

291 Date

292 Time

293 Day

294 Month

295 Year

296 Signature

297 Date

298 Time

299 Day

300 Month

301 Year

302 Signature

303 Date

304 Time

305 Day

306 Month

307 Year

308 Signature

309 Date

310 Time

311 Day

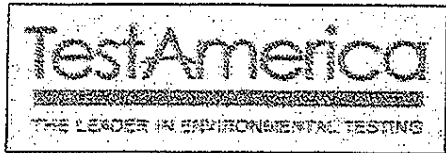
312 Month

313 Year

314 Signature

315 Date

316 Time



Rush TAT Confirmation (Initial/Date) _____

Sample Receipt Checklist

Client Name: ACSI Date/ Time Received: 8/21/13 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: <u>NA</u>
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: ☒
prolonged?	Yes ☐	No ☒	Temperature: _____
Encaps / MUMC / EOPF 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:
