

**PHASE I/II INVESTIGATION  
TARGETED BROWNFIELD'S ASSESSMENT**

Kekaha Sugar Mill  
Kekaha, Kauai, Hawaii



**Prepared for:  
U.S. Environmental Protection Agency  
Region 9**

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Final Report**

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## **LIST OF ACRONYMS**

AOC	Analyte of Concern
APN	Assessors Parcel Number
ASTM	American Society for Testing and Materials
bgs	below ground surface
°C	Degrees Celsius
DU	Decision Unit
EDR	Environmental Data Resources, Inc.
EPA	United States Environmental Protection Agency
GPS	Global Positioning System
FHMA	Former Herbicide Mixing Area
HDOH	Hawaii Department of Health
ID	Identification
LUST	Leaking Underground Storage Tanks
LCS	Laboratory Control Sample
MDA	Mill Ditch Area
mg/kg	milligrams per kilogram
µg/l	micrograms per liter
MIS	Multi-Increment Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
PM	Project Manager
PQL	Practical Quantitation Limit
QA	Quality Assurance
QAO	Quality Assurance Office
QC	Quality Control

**LIST OF ACRONYMS(continued)**

RSLs	Regional Screening Levels
RPD	Relative Percent Difference
RCRA	Resource Conservation and Recovery Act
SAP	Sampling and Analysis Plan
SOP	Standard Operating Procedure
SVOC	Semivolatile Organic Compound
TBD	To Be Determined
TBA	Targeted Brownfields Site Assessment
TEQ	Total Equivalent Quotient
TM	Task Monitor
USACE	United States Army Corps of Engineers
UST	Underground Storage Tank
WESTON	Weston Solutions, Inc.

## **1.0 INTRODUCTION**

### **1.1 Scope of Work and Purpose**

The U.S. Environmental Protection Agency (EPA), Region 9, in coordination with the Army Corps of Engineers (USACE), tasked Weston Solutions, Inc. (WESTON) to conduct a Targeted Brownfields Assessment (TBA) at the Kekaha Sugar Mill (Site) located at 8315 Kekaha road, Kekaha, Kauai, Hawaii. The EPA Region 9 TBAs are intended to characterize conditions at Brownfields Sites being considered for planned redevelopment or reuse. The current zoning of the Site is split between commercial/agricultural and industrial/residential. The HDOH is working with Agricultural Development Corporation on the proposed installation of three diesel-powered generators that will provide emergency back-up power to operate the existing drainage and irrigation system of the Kekaha Agricultural Lands. The HDOH is also coordinating with Pahio Development on the proposed development of the Kekaha Sugar Mill to possible commercial and residential land use.

WESTON's Phase I/II Environmental Site Assessment (ESA) was conducted in general accordance with 40 Code of Federal Regulations (CFR) Part 312 - Innocent Landowners, Standards for Conducting All Appropriate Inquiries, American Society for Testing and Materials (ASTM) E1527-05, and project scoping meetings with stakeholders. The work was performed for the EPA under the USACE Contract W91238-06F-0083.

The objective of the assessment is to identify existing or potential environmental liabilities; therefore, this effort does not preclude the potential for future environmental problems. The findings of this assessment were limited to areas accessible to WESTON during the site reconnaissance. During the assessment, WESTON employed accepted environmental assessment procedures and undertook appropriate inquiry into current and previous ownership and uses of the property. The assessment was conducted by personnel experienced in recognizing both short- and long-term environmental hazards and liabilities. The Standard Practice for Site Assessments as issued by the ASTM, defines recognized environmental conditions as follows:

“...the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include de minimis conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be de minimis are not recognized environmental conditions” (ASTM E-1527-05).

A Phase I ESA consists of four general components: a records review, a Site reconnaissance, interviews, and a report. The first three are conducted to identify recognized environmental conditions related to the subject property.

Under the Brownfields program, the EPA, in coordination with the USACE has tasked WESTON to conduct a Phase II investigation to evaluate Site environmental concerns in an effort to facilitate redevelopment. To evaluate environmental concerns, WESTON collected surface soil samples from six locations, or Decision Units (DUs), in the Former Herbicide Mixing Area (FHMA) to be analyzed for Analytes of Concern (AOCs). Surface soil samples were collected at each location from 0-6 inches below ground surface (bgs). AOCs for the surface soil sampling include semi-volatile organic compounds (SVOCs); organochlorine pesticides; metals, and dioxins/furans. In addition, WESTON collected sediment samples (total depth no greater than 18 inches bgs) from four DUs in the Mill Ditch Area (MDA), to be analyzed for metals and pesticides.

Sample results for the AOC's were evaluated against action levels to determine the best horizontal and vertical delineation of risk to human health and the environment and to determine mitigation requirements, if any exist.

## **1.2 Special Terms and Conditions**

This document has been prepared by WESTON solely for the use and benefit of the EPA, USACE and the Hawaii Department of Health (HDOH). Any use of this document or information herein by persons or entities other than EPA, USACE and HDOH, without the express written consent of WESTON, will be at the sole risk and liability of said person or entity, and WESTON will not be liable to the EPA, USACE and HDOH or such persons or entities, for any damages resulting there from. It is understood that this document may not include all information pertaining to the described site.

## **1.3 Personnel Performing ESAs and Responsibilities**

This ESA was completed by the following team of WESTON personnel:

- Claudette Altamirano, Registered Environmental Assessor in California, Senior Reviewer and Environmental Professional. Ms. Altamirano has over 20 years of experience in the environmental field.
- Joe DeFao, Program Manager. Mr. DeFao is responsible for the overall performance of all tasks assigned to WESTON by the EPA and working with the EPA QAO to ensure project quality assurance goals are met.
- Samantha Leskie, Project Manager and Field Sampling QC Coordinator. Ms. Leskie is responsible for the overall performance of all tasks assigned to WESTON by the EPA, preparing the SAP, and working with the EPA QAO to ensure project quality assurance goals are met.
- Anthony Rodriguez, Field Manager. Mr. Rodriguez is responsible for handling, documenting, and transporting samples, and generating field documentation of sampling activities.

## **1.4 Limitations and Exceptions of Assessment**

ASTM E 1527-05 acknowledges that “No environmental site assessment can wholly eliminate uncertainty regarding the potential for recognized environmental conditions in connection with a property.” The ESA “ [ ... ] is intended to reduce, but not eliminate, uncertainty regarding the potential for recognized environmental conditions in connection with a property, and this practice recognizes reasonable limits of time and cost.” Furthermore the ASTM E 1527-05 states that “There is a point at which the cost of information obtained or the time required to gather it outweighs the usefulness of the information and, in fact, may be a material detriment to the orderly completion of transactions.”

This assessment report contains the results of reconnaissance and sampling activities of the subject property and surrounding properties conducted in November 2010, and a review of property, government, and historical records. Information used to complete these ESAs was reasonably ascertainable, and visually and physically observable. The ESA also included surface and subsurface soil sampling and analyses to assess contamination at the Site.

## **1.5 Users Responsibilities**

In Section 6 of ASTM E 1527-05, the responsibilities of the user of a Phase I/II ESA to assist in the identification of potential recognized environmental conditions are outlined. These include:

- A review of reasonably ascertainable land title records and liens that might be recorded against the property. This might include environmental liens or activity and use limitations (deed recordations and/or deed restrictions). As part of this ESA, WESTON has not been notified of any such liens or restrictions. WESTON’s scope of work did not include a complete review of title information, and no chain-of-title information was provided for review.
- Communication to the environmental professional any specialized knowledge or experience, or other information that might be material to the identification of recognized environmental conditions. Specialized knowledge or experience communicated to WESTON with the respect to this ESA included previous environmental reports from HDOH, (HDOH 1999 and 2000), EPA (EPA ID NO.:HID00875203) and the Agricultural Development Corporation (2010).
- Consideration of the purchase price to the fair market value of the subject property assuming the subject property has not been contaminated through past usage. No information regarding the purchase price or fair market value was provided to WESTON.

## **2.0 PROJECT AREA DESCRIPTION**

The former sugar plantation encompasses a large area of agricultural land that includes the former Kekaha Sugar Mill (Site), approximately 35 acres, and approximately 10 acres of settling pond located northeast of the Site. As shown in Figure 2-1, the Site is located at 8315 Kekaha road, Kekaha, Kauai, Hawaii, approximately 24 miles west of the Lihue Airport. The town of Kekaha is situated at, Latitude: 159° 43' 37" West, Longitude: 21° 59' 43" North. The Site is currently zoned as commercial/agricultural and industrial/residential, identified by the State of Hawaii. Pahio Development owns the Kekaha Sugar Mill that includes the carpentry paint shop and potential sunblast area, open yard area of the mill, former electric shop, former metal, machine and automotive shops, drum storage area, former bagasse house and former seed dipping plant. Wellington Phyllis, et. al. owns the former carpentry shop (TMK (4) 1-3-011:039). Agricultural Development Corporations (Hawaii State government agency) owns approx. 13,000 acres of agricultural lands (north of the Site) that includes the 3.2 acres of the former pesticide mixing area (on the Site) (TMK (4) 1-2-002:001). DLNR owns the mill ditch that runs through the Site to Pacific Ocean. The Site layout is presented in Figure 2-2.

The Main Office of the Kekaha Sugar Mill is located north of Kekaha Road and west of Hukipo Road. Adjacent to the Main Office to the east is the Former Herbicide Mixing Area. South of Kekaha Road is the former Kekaha Sugar Mill where most activities occurred. The Open Yard Area is defined as the areas of the Kekaha Sugar Mill that are not occupied by structures (mainly open soiled areas). Along the western perimeter are the Former Automotive Shop and Motor Pool where motor vehicles were repaired and stored. In the central portion of the Site, directly south and parallel to Kekaha Road, are the Electrical Shop, Metal Shop, and Machine Shop. These workshops were where welding and metalwork took place, and electrical products were stored and constructed for use at the Sugar Mill or satellite areas. Perpendicular to the Machine Shop is the Boiler House, where most of the power to run the Sugar Mill was generated. At the southeast corner of that structure is the Former Transformer Area. Approximately 200 feet to the west of the Former Transformer Area is the Bagasse House, formerly used for storing the organic solid waste following the removal of cane sugars. Approximately 150 feet east of the Former Transformer Area is the Drum Storage Area, located along the western embankment of the Mill Ditch. East of the Machine Shop is the Cane Cleaning Plant, where harvested cane was brought into the Sugar Mill and washed prior to being processed for sugar. Southeast of the Cane Cleaning Plant and east of the Kekaha Sugar Mill is the Former Seed Dipping Tank where seeds were treated and prepared for planting. The Mill Ditch runs in a western direction and goes underground between the Former Seed Dipping Tank and the Kekaha Sugar Mill. The mill ditch continues and empties into the Pacific Ocean (USEPA 2005).

Previous and current activities in and around the Site may have caused soil contamination that could impact the health and welfare of future Site occupants. Historically, the Site is known to have been a sugar mill, which included an herbicide mixing area and seed dipping plant. The sugar mill ceased operation in September, 1999.

### **3.0 SITE CONDITIONS**

#### **3.1 Site Reconnaissance**

Based on historical information, usage and previous investigations potential sources of contamination were identified. In August, 2005, The HDOH conducted a site inspection (SI) of the Kekaha Sugar Company, which included the Kekaha sugar mill (EPA ID No.: HID000875203). Soil, groundwater, surface water and sediment sampling was conducted to identify potential sources of contamination brought about by sugarcane production. The results from this sampling showed elevated levels of dioxin and mercury in the Former Herbicide Mixing Area (FHMA) and Mill Ditch Area (MDA), respectively.

In June, 2010 The Agricultural Development Corporation reported its results of their site investigation at the FHMA which showed Tier I Environmental Action Level (EAL) exceedances for dioxins and arsenic.

WESTON and HDOH personnel, Roger Brewer and Melody Calisay conducted a field site reconnaissance of the Site in October 27, 2010. The reconnaissance included a visual inspection of the property and adjacent properties. Photographs from the Site visit are provided in Appendix A.

During the site reconnaissance, further investigation into the delineation of the Decision Units (DU's) was conducted in order to ensure the known areas of concern for soil and sediment sampling were included in the study area. Six DUs were defined at the FHMA and four DUs were defined in the MDA area (which includes the Mill Ditch), located within the Kekaha Sugar Mill Site. The FHMA DU locations are illustrated in Figure 3-1 and MDA DU location are illustrated in Figure 3-2.

Current land uses in the area surrounding the Site include agricultural use to the north, and residential and commercial buildings surrounding the Site to the east, west and south. The Kaunualii Highway borders the Kekaha beach to the south approximately 850 feet from the Site. The Pacific Ocean coastline lies within 1,000 feet of the site.

#### **3.2 Historical Background**

##### **3.2.1 Historic Topographic Map Review**

Historic topographic maps of the Kekaha, HI area, dated 1963, 1983, and 1991 were obtained by Environmental Data Resources, Inc. (EDR) (Appendix B). The following narratives are descriptions of the principal observations related to the historical topographic map review:

- The 1963 Kekaha, HI 7.5-minute topographic map with a scale of 1:24,000 shows the Kekaha Sugar Mill complex clearly visible and the area surrounding the Site to the east, west and south as having some development. The area to the north appears to be predominantly used for agriculture, or vacant. The Kaunualii highway is shown in same location as the present Kaunualii highway. The roads surrounding the Site, specifically Hukipo road to the

north of the Site are shown in the map. Kekaha Beach Park is designated between the highway and the Pacific Ocean. The Aqueduct leading from the Percolation Basins to the north (at the base of the Paua mountain range) to the Site is also shown. The Kekaha School and Faye Park is shown to the west of the Site and the St. Theresa School is shown to the south of the Site. The scale of the map is too large to identify any individual features at the Site itself.

- The 1983 Kekaha, HI 7.5-minute topographic map with a scale of 1:24,000 shows the same general information as the 1963 map, but with more development surrounding the Site. The Percolation Basins are now labeled as Settling Ponds, but no change in size or location. Some increased development of small buildings and residential homes appear throughout the surrounding area of the Site. The scale of the map is too large to identify any individual features at the Site itself.
- The 1991 Kekaha, HI 7.5-minute topographic map with a scale of 1:24,000 shows the same information as the 1983 map. Development surrounding the Site has not changed substantially. The scale of the map is too large to identify any individual features at the Site itself.

### **3.2.2 Aerial Photograph Review**

A historical review of aerial photographs was conducted by EDR. The EDR Aerial Photo Decade Package included images from 1974, and 1992 (Appendix C). The following narratives are descriptions of the principal observations related to the aerial photograph review:

- The 1974 aerial photograph, with a scale of 1:1000, shows the Site clearly defined. The Automotive Shop, warehouses, bagasse house, factory, power generating plant, metal shop, crushing plant, former transformer area, the main office, Former Herbicide Mixing Area, and the Mill Ditch are discernable in this photograph. Residential development surrounds the Site to the east, west and south. The aqueduct and settling ponds are to the north of the Site, along with Agricultural lands. The same highway and roads that are described in Section 3.2.1, Historical Topographic Map Review appear in this aerial photograph.
- The 1992 aerial photograph, with a scale of 1:1000 shows only a minor increase in development in areas west, south and east of the Site.

### **3.2.3 Sanborn Maps**

A historical review of Sanborn fire insurance maps was conducted by EDR. The EDR Sanborn Map Package included maps from 1966 (Appendix D). The following narratives are descriptions of the principal observations related to the Sanborn map review:

- The 1966 Sanborn maps show residential development to west of the site on the corner of Kekaha Rd. and Kala Rd. Residential development is also shown adjacent to the Site to the south west of the drainage ditch. There is a post office and tennis courts northwest of the Site bordering Kekaha Rd. For the Site itself, the main office, the automotive shop,

warehouses, equipment sheds, bagasse fuel house, mascuite tanks, boiler room, power generating plant, metal shop, cane crushing plant, cane washer and conveyor, machine shop, above ground storage tanks, and the drain ditch are shown.

### **3.2.4 City Directory**

A City Directory Abstract was provided by EDR (Appendix E), and provides historical occupant information of the Site property address of 8135 Kekaha Rd, Kekaha, HI 96752 and adjoining properties addresses, obtained for the years ranging from 1998 to 2010. The Site property address and street was researched and the address was not identified in the research source (Polk's City Directory). In addition, the Adjoining Property addresses were researched and were not identified in the research source (Polk's City Directory).

### **3.2.5 Environmental Lien Search**

An Environmental Lien Search was conducted by EDR (Appendix F). No Environmental Lien's were identified for the Site. A Quitclaim Deed was found, vested to Kekaha MS, LLC, dated August 1, 2007. A copy of this deed is included in Appendix F.

## **3.3 Geology**

The Site is at an elevation of approximately six feet above mean sea level and lies on a gently southeastward dipping plain, along the south western coastline of Kauai. Kauai lies in the north - western portion of the major Hawaiian Island Chain, at about 159 degrees longitude and 22 degrees latitude. Its conical shape is believed to be the result of a single unbuttressed volcano, which developed between 2.5 to 5 million years ago. The main mountain building stage produced the tholeiitic basalts that are commonly observed. Kauai experienced a period of relative quiescence for the last 2.5 million years, in which erosional processes developed the large valleys and waterways.

The dominant soil component in the vicinity of the Site is loamy fine sand, which is excessively well-drained and highly erodible soil. It is sandy soil with low organic and clay content, which is not expected to adsorb chemicals readily.

## **3.4 Hydrogeologic Conditions**

The Site is at an elevation of approximately six feet above mean sea level and lies on a gently southeastward dipping plain, along the south western coastline of Kauai. The Pacific Ocean coastline lies within 1,000 feet of the site. The Site is located within the Kekaha Aquifer System of the Waimea Aquifer Sector. The average annual rainfall in the sector is approximately 33 inches per year, the driest system on Kauai. Surface drainage is characterized by small non-perennial streams that empty into the Mana Plain, which was a swamp prior to being drained for agricultural development. The region is part of the southwest flank of the volcano, where the Napali lavas terminate against the Mana Plain, which is a mile-wide coastal plain of terrestrial and marine sediments. Although high level dikes confine fresh groundwater inland near Waimea

Canyon, the Mana Plain is characterized by a lower basal aquifer within the flank volcanics that is confined by the overlying caprock.

The surface aquifer is composed of marine and terrestrial sediments that make up a confining layer, known as caprock, over the underlying basal aquifer of the Site. Groundwater from the basal aquifer leaks upward into the caprock, thus protecting the basal aquifer from surface contamination. The basal aquifer is used for irrigation throughout the Mana Plain. Drinking water systems are located inland, hydraulically upgradient from the site, where the basal aquifer is not confined by caprock. The confined basal aquifer is used for irrigation within four miles of the site but not for drinking. Four drinking water wells are located in the unconfined portion of the basal aquifer within four miles of the Site; in hydraulically upgradient locations, not expected to be impacted by site activities. In addition, the upward vertical gradient in the confined portion of the aquifer (below the Mana Plain) results in leakage of fresh water into the surface aquifer sediments, resulting in a near-surface water system that is saline to brackish from the interaction with the marine sediments and coastal surface waters. The upward gradient acts to protect the lower freshwater system from surface contaminant sources other than dense, non-aqueous phase liquids (DNAPL).

### **3.5 Hydrologic Information**

Surface water can act as a hydrologic barrier to groundwater flow. A City Radius Map with a GeoCheck Report was provided by EDR (Appendix G). The Site is identified as within the Federal Emergency Management Agency (FEMA) flood Zone (100-year). In addition, an area identified in the National Wetland inventory is within one mile radius of the Site to the North, Northeast. Greater detail is provided in the Overview and Detail Map in Appendix G.

### **3.6 Water Well Summary**

A total of six water wells were identified to be present within a one-mile radius of the Site. One well was found within a 1/8-mile radius of the Site, and a total of five wells were found within a one-mile radius of the Site. A list of the wells identified, and a map of the well locations can be found in Appendix G.

## **4.0 INVESTIGATIVE NARRATIVE**

### **4.1 Methods and Evaluation Criteria**

The methods and evaluation criteria used to conduct this combined Phase I/II Site Assessment are based on information gathered by a visual site reconnaissance, an environmental database report supplied by EDR, and interviews and file reviews with environmental regulatory agency personnel. A copy of the EDR databases is included in Appendix G.

The WESTON environmental assessment focused on the following areas of potential concern:

- Hazardous materials handling and storage, including fuel storage and underground storage tanks;
- Water and wastewater;
- Non-hazardous and hazardous wastes; and,
- Potential impacts from surrounding properties.

In addition, a review of federal, state, and local government agency databases was conducted to locate sites with hazardous materials releases that could potentially impact the subject property.

### **4.2 Agency Database Review**

The objective of consulting the environmental record sources is to identify recognized environmental conditions on or in the vicinity of the subject property that may have an environmentally related effect on the subject property. The EDR report includes a map of the Kekaha Sugar Mill (Kekaha Sugar Co. LTD) showing sites within a specific radius which have been identified in one or more of the environmental regulatory agency databases.

The remainder of this section provides a discussion of the environmental regulatory agency listings and the specific sites on these listings in proximity to the Site as identified by EDR and from other state and county databases.

#### **4.2.1 Federal NPL Site List**

The Federal National Priorities List (NPL) database is a subset of the Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) and identifies sites for priority cleanup under the EPA Superfund program.

- The only Federal NPL Site listed was the Site property, Kekaha Sugar Co. LTD., at address 8315 Kekaha Rd.

#### **4.2.2 Federal RCRA Generators List**

The EPA Resource Conservation and Recovery Act (RCRA) program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of reporting facilities that generate, treat, store, or dispose of hazardous waste. This list was reviewed to determine if the subject alignment or any site within one mile was permitted to treat, store or dispose of hazardous waste. In addition, this list

was reviewed to determine if the adjacent properties or any site within a 0.25-mile radius of the Site is registered as a small or large quantity generator of hazardous waste.

- The only Federal RCRA Site listed was the Site property, Kekaha Sugar Co. LTD., at address 8315 Kekaha Rd.

#### **4.2.3 State and Tribal – Equivalent CERCLIS**

The State Hazardous Waste Sites (SHWS) records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. This data came from the HDOH.

- The only Federal SHWS Site listed was the Site property, Kekaha Sugar Co. LTD., at address 8315 Kekaha Rd.

#### **4.2.4 Leaking Underground Storage Tanks**

The Leaking Underground Storage Tanks (LUSTs) database contains an inventory of known releases from LUST incidents. The data comes from Department of Health's Active Leaking Underground Storage Tank Log Listing.

There are two LUST sites identified within a 0.5-mile radius of the Site and at equal or higher elevation:

- The Site property, Kekaha Sugar Co. LTD., at address 8315 Kekaha Rd, and
- Charlie's Station at address 8314 Kekaha Rd and located approximately 0.067 miles north, northwest, upgradient of the Site.

Both sites status is listed as "Cleanup completed (NFA)".

#### **4.2.5 Underground Storage Tanks**

The Underground Storage Tanks (USTs) database contains registered USTs. USTs are regulated under the Subtitle I of RCRA. The data comes from Department of Health's Listing Underground Storage Tanks. There are six UST sites were identified within a 0.25-mile radius of the Site and at equal or higher elevation:

- A total of five UST sites were on the Site property; four at Kekaha Sugar Point Site, at address 8315 Kekaha Rd. and one at Kekaha Central Office, address 8266-A Kekaha Rd, and
- One UST was identified at Charlie's Station at address 8314 Kekaha Rd and located approximately 0.067 miles north, northwest of the Site.

## **5.0 ASSESSMENT ACTIVITIES**

It is the opinion of WESTON that previous and current activities in and around the Site may have caused soil contamination that could impact the human health or the environment, warranting further investigation of the surface soil and sediment.

The objective of this investigation is to evaluate Site environmental concerns and ultimately facilitate redevelopment. WESTON reviewed available Site information to determine historic uses and identify hazardous substances that may be present on Site. WESTON used this information to determine the most effective sampling design to meet the project objectives within the schedule and budgetary constraints. Sampling locations were defined by using DUs, which is the HDOH preferred method of determining population exposure to surface soil and sediment. A DU is an area where a decision is to be made regarding the extent and magnitude of AOCs with respect to the potential environmental hazards posed by the existing or anticipated future exposure to the AOCs.

The following potential sources of contamination, or AOCs were identified at the Site:

- Former Herbicide Mixing Area – Dioxins/Furans, Metals, SVOCs and Pesticides;
- Mill Ditch Area – Metals and Pesticides.

WESTON collected surface soil samples from six separate DUs in the FHMA. These soil samples were analyzed for SVOCs via EPA Method 8270C; pesticides via EPA method 8081; metals via EPA SW-846 Method 6010 and 7471; and dioxins/furans via EPA Method 8290. In addition, WESTON collected sediment samples (total depth no greater than 18 inches) from four DUs in the MDA that were analyzed for metals via EPA SW-846 Method 6010 and 3050B/6020 and pesticides via EPA method 8081. Table 5-1 lists the sample locations and corresponding analyses.

### **5.1.1 Surface Soil Sampling**

The Multi-Increment Samples were prepared by collecting a minimum of 30 small increments of surface soil (0-6 inches bgs) from the specified decision unit and combining these increments into a single sample, referred to as the Multi-Increment Sample (MIS). Six surface soil MISs were collected from the designated six DUs in the FHMA. Exact DU sampling locations were determined in the field based upon accessibility. The locations of each DU were recorded using a Global Positioning System (GPS) and entered into the field logbook upon sampling completion. FHMA DU locations are illustrated in Figure 3-1. A field sampling photo log is presented in Appendix H.

MIS sampling in the FHMA DUs was conducted on a grid system to systematically evaluate the AOCs mentioned in the previous section above. Increment locations were flagged, and recorded in the field. Offsets, from the grid were utilized to locate increments for areas where tree canopy or other obstructions prevent accurate GPS identification.

A total of 6 MIS or DU composite samples were taken in the FHMA and two MIS field replicate samples were taken from DU FHMA-06. Additional sample volume was collected at one location (FHMA-04) for use as laboratory quality control (QC). Samples were collected using a

drill with an 18 inch long drill bit and a chinet paper plate, to collect the individual increment samples. Obvious twigs, roots, large rocks, and were excluded from the incremental sample. Approximately 50 gram aliquots were collected from each increment location. To produce the MIS, increment samples were placed into a gallon sized double lined plastic bag (weighing less than 2 kilograms) prior to processing for laboratory submission.

All sample containers were chilled immediately to 4°C, and processed for laboratory delivery. All samples were analyzed by the contracted certified laboratory for the requested analyses.

### **5.1.2 Sediment Sampling**

Four sediment MIS were collected from the designated four DUs in the MDA. Exact sampling locations were determined in the field based upon accessibility. MIS sampling in the MDA DUs were conducted on a grid system to systematically evaluate the AOCs mentioned in the previous section above. Offsets, from the grid were utilized to locate increments for areas where tree canopy or other obstructions prevent accurate GPS identification. Thirty individual sediment increments were collected from the top 18 inches of sediment from each MDA DU to create one MIS or composite sample per DU. The locations of each DU were recorded using a GPS and entered into the field logbook upon sampling completion. MDA DU locations are illustrated in Figure 3-2. A field sampling photo log is presented in Appendix I.

A total of four MIS or DU composite samples were taken in the MDA and two MIS field replicate samples were taken from DU MDA-10. Additional sample volume was collected at one location (MDA-10) for use as laboratory QC sample.

A PVC pipe with an aluminum sampling tube attached sediment coring device was utilized to collect the 30 individual sediment increment samples. After the sediment sample was collected, the sample was allowed to settle in the collection container a few minutes. Then excess, decant water was slowly poured through a coffee filter to catch any fines. Then the collected fines were replaced back into the sample. It should be noted that in stagnant water the sediment often has the consistency of gelatin, and the water may not drain out of it. In this case, the entire sample, including the decant water was collected in a double lined, strong plastic bag. Finally, the individual increment samples were composited in a strong, gallon sized double lined plastic bags. All sample containers were closed as soon as they were filled, chilled immediately to 4°C, and processed for shipment to the laboratory. The field MIS was then submitted to the laboratory for processing and analysis. The MIS sample weighed less than 2 kilograms. All samples were analyzed by the contracted certified laboratory for the requested analyses.

### **5.1.3 Equipment Blanks**

A total of two equipment blank samples were taken; one equipment blank for each day of operation. One equipment blank was collected on January 29 (EB-101129) and one equipment blank was collected on January 30, 2011 (EB-101130). The equipment blank was collected by pouring Ultrapure grade water over the piece of non-dedicated equipment into a sample bottle. Each equipment blank was submitted to the laboratory for analysis for SVOCs, metals, dioxins/furans, and pesticides.

## **6.0 ASSESSMENT RESULTS**

Sample results were analyzed by Test America Laboratories, Inc. in Honolulu, Hawaii. Selected soil samples were analyzed for SVOCs, chlorinated pesticides, metals, and dioxins/furans. A total of six surface soil samples, four sediment samples, two duplicate soil samples, two duplicate sediment samples, and two equipment blank samples were collected at the Site. The analytical results of the soil and sediment samples are summarized in Figures 6-1, and Tables 6-1 through 6-6. The complete analytical laboratory data report is included in Appendix J.

### **6.1 Sampling Results**

The HDOH is working with Agricultural Development Corporation on the proposed installation of three diesel-powered generators that will provide emergency back-up power to operate the existing drainage and irrigation system of the Kekaha Agricultural Lands. The HDOH is also coordinating with Pahio Development on the proposed development of the Kekaha Sugar Mill to possible commercial and residential land use. Protection of pedestrians and recreational user health and the environment are pertinent to this Site use.

Action levels were determined in order to correspond with possible use of the property for industrial/commercial and residential purposes. Soil sample results for SVOCs, pesticides, dioxins/furans and metals were compared to HDOH Environmental Action Levels (March 2009) for residential, or unrestricted, and commercial/industrial only land use. These action levels will serve as a screening tool to help determine whether further characterization at the Site is necessary. The action levels, corresponding analytes, and surface soil sampling results for the FHMA are presented in Tables 6-1 through 6-4. The action levels, corresponding analytes, and sediment sampling results for the MDA are presented in Tables 6-5 and 6-6. Sample results for each DU exceeding the established action levels are illustrated in Figure 6-1.

#### **6.1.1 Surface Soil Sampling Results**

##### **SVOCs**

As presented in Table 6-1, none of the SVOC analytes of concern were detected above the established action levels.

##### **Pesticides**

As presented in Table 6-2, none of the pesticide analytes of concern were detected above the established action levels.

##### **Metals**

As presented in Table 6-3, arsenic was detected at elevated concentrations above the established action level of 20 mg/Kg.

Elevated concentrations of arsenic were found in DU samples: FHMA-02; FHMA-05; and FHMA-06, plus the two duplicate samples (FHMA-11 and FHMA-12). Arsenic concentrations greater than the established action levels ranged from 22.7 mg/Kg (FHMA-02) to 97.5 mg/Kg

(FHMA-05). Locations of these DUs are illustrated in Figure 6-1. Bio-accessible arsenic results are discussed in Section 6.1.3.

### **Dioxins / Furans**

As presented in Table 6-4, Total Equivalent Quotient (TEQ) Dioxins (Dioxins) were detected at elevated Concentrations above the established action levels of 0.00024 mg/Kg for Residential/Unrestricted, and 0.0015 mg/Kg for Commercial/Industrial. Elevated concentrations of Dioxins were found in DU samples: FHMA-03; FHMA-05; and FHMA-06, plus the two duplicate samples (FHMA-11 and FHMA-12). The Dioxin levels for FHMA-05 and FHMA-06 were 0.00062 mg/Kg and 0.00077 mg/Kg, respectively which is above the action level for Residential/Unrestricted, but below the action level for Commercial/Industrial. The Dioxin level reported for FHMA-03, at 0.0018 mg/Kg is above the action levels for both Residential/Unrestricted and Commercial/Industrial. Locations of these DUs are illustrated in Figure 6-1.

## **6.1.2 Sediment Sampling Results**

### **Pesticides**

As presented in Table 6-5, none of the pesticide analytes of concern were detected above the established action levels.

### **Metals**

As presented in Table 6-6, arsenic was detected at elevated concentrations above the established action levels of 20 mg/Kg.

Elevated concentrations of arsenic were found in DU samples: MDA-08; MDA-09; and MDA-10, plus the two duplicate samples (MDA-13 and MDA14). Arsenic concentrations greater than the established action levels ranged from 20.1 mg/Kg (MDA-08) to 41.6 mg/Kg (MDA-09). Locations of these DUs are illustrated in Figure 6-1. Bio-accessible arsenic testing results are discussed in Section 6.1.3

## **6.1.3 Bioaccessible Arsenic Soil and Sediment Sampling Results**

There is growing acceptance in the scientific community that only a fraction of total soil arsenic contributes to potential health risks from ingestion of arsenic containing soils (Cutler, et.al. 2006). Bio-accessible testing estimates the fraction of arsenic in soil, or sediment that could be solubilized in stomach acid and available for bioavailability, or uptake (Brewer 2006).

As discussed in section 6.1.1, the results for the DU soil samples: FHMA-02; FHMA-05; and FHMA-06, plus the two duplicate samples (FHMA-11 and FHMA-12) reported arsenic levels exceeding the action level of 20 mg/Kg. In addition, as discussed in section 6.1.2, the results for the DU sediment samples: MDA-08; MDA-09; and MDA-10, plus the two duplicate samples (MDA-13 and MDA14) reported arsenic levels exceeding the action level of 20 mg/Kg. Due to these observed exceedances additional bio-accessible arsenic testing was conducted on these aforementioned DU samples. The results of the bio-accessible arsenic testing were compared the

HDOH Tier II action level of 23 mg/Kg, which applies to both Residential/Unrestricted and Commercial/Industrial land use.

As presented in Table 6-7, bio-accessible arsenic was detected at elevated concentrations above the established action levels of 23 mg/Kg. Bio-accessible arsenic concentrations greater than the established action level were reported for only the DU soil samples from FHMA-05 to FHMA-06. The bio-accessible arsenic concentrations were reported at 47.3 mg/Kg for FHMA-05 and 25.4 mg/Kg for FHMA-06. Locations of these DUs are illustrated in Figure 6-1.

#### **6.1.4 Equipment Blank Results**

A total of two equipment blank samples were taken; one equipment blank for each day of operation. No SVOCs, pesticides, metals, or Dioxins were detected in the Equipment Blank Samples EB-101129 and EB-101130.

## **7.0 EXCEPTIONS, DELETIONS, AND DATA GAPS**

WESTON has performed this combined Phase I/II ESA in conformance with the scope and limitations of ASTM E-1527-05 for the Kekaha Sugar Mill Site, located in Kekaha, Kauai, Hawaii. Exceptions to, or deletions from, this practice include:

- A chain-of-title report was not obtained for any of the properties in the project area and no chain-of-title information was reviewed.

These exceptions are not thought to have a material impact on the findings and conclusions of the ESA.

## **8.0 FINDINGS, CONCLUSIONS AND RECOMMENDATIONS**

The USEPA, in coordination with the USACE, tasked WESTON to conduct a Phase I/II Environmental Site Assessment of the Kekaha Sugar Mill Brownfield's Project. Based on a review of readily available information and a site reconnaissance, WESTON has drawn the following conclusions regarding the subject area.

The former sugar plantation encompasses a large area of agricultural land that includes the former Kekaha Sugar Mill (Site), approximately 35 acres, and approximately 10 acres of settling pond located northeast of the Site. As shown in Figure 2-1, the Site is located at 8315 Kekaha road, Kekaha, Kauai, Hawaii, approximately 24 miles west of the Lihue Airport. The town of Kekaha is situated at, Latitude: 159° 43' 37" West, Longitude: 21° 59' 43" North. Pahio Development owns the Kekaha Sugar Mill that includes the carpentry paint shop and potential sunblast area, open yard area of the mill, former electric shop, former metal, machine and automotive shops, drum storage area, former bagasse house and former seed dipping plant. Wellington Phyllis, et. al. owns the former carpentry shop (TMK (4) 1-3-011:039). Agricultural Development Corporations (Hawaii State government agency) owns approx. 13,000 acres of agricultural lands (north of the Site) that includes the 3.2 acres of the former pesticide mixing area (on the Site) (TMK (4) 1-2-002:001). DLNR owns the mill ditch that runs through the Site to Pacific Ocean. The Site layout is presented in Figure 2-2.

Current land uses in the area surrounding the Site include agricultural use to the north, and commercial buildings and residential communities surrounding the Site to the east, west and south. The Kaunua Highway borders the Kekaha beach to the south approximately 850 feet from the Site. The Pacific Ocean coastline lies within 1,000 feet of the site.

Based on historical information, usage and previous site investigations of potential sources of contamination were identified. In August, 2005, The HDOH conducted a SI of the Kekaha Sugar Company, which included the Kekaha sugar mill (EPA ID No.: HID000875203). Soil, groundwater, surface water and sediment sampling was conducted to identify potential sources of contamination brought about by sugarcane production. The results from this sampling showed elevated levels of dioxin and mercury in the Former Herbicide Mixing Area (FHMA) and Mill Ditch Area (MDA), respectively.

In June, 2010 The Agricultural Development Corporation reported its results of their site investigation at the FHMA which showed Tier I Environmental Action Level (EAL) exceedances for dioxins and arsenic. It is the opinion of WESTON that historical Kekaha Sugar Mill activities associated with the Site, and the possible release of hazardous materials, warranted further investigation of the surface soil and sediment.

Aerial photographs, historic topographic maps, Sanborn maps, city directories, and an environmental lien search indicated the Site has consistently been an agricultural and industrial land use. The area to the north has been predominantly used for agriculture, or vacant. The Aqueduct leading from the Percolation Basins, or Settling Ponds to the north (at the base of the Paua mountain range) to the Site has been present since the 1960s. During the 1980's, small buildings and residential development increased steadily to the east, west and south of the Site. Presently, development surrounding the Site appears to not have increased significantly, over the

last 20 years. The Kekaha School and Faye Park is west of the Site. The Kaunualii highway is adjacent to Kekaha Beach Park and the Pacific Ocean directly south of the Site.

The Site is at an elevation of approximately six feet above mean sea level and lies on a gently southeastward dipping plain, along the south western coastline of Kauai. Kauai lies in the north - western portion of the major Hawaiian Island Chain. The Pacific Ocean coastline lies within 1,000 feet of the site. The Site is located within the Kekaha Aquifer System of the Waimea Aquifer Sector. The average annual rainfall in the sector is approximately 33 inches per year, the driest system on Kauai. Surface drainage is characterized by small non-perennial streams that empty into the Mana Plain, which was a swamp prior to being drained for agricultural development. The dominant soil component in the vicinity of the Site is loamy fine sand, which is excessively well-drained and highly erodible soil. It is sandy soil with low organic and clay content, which is not expected to adsorb chemicals readily.

The surface aquifer is composed of marine and terrestrial sediments that make up a confining layer, known as caprock, over the underlying basal aquifer of the Site. Groundwater from the basal aquifer leaks upward into the caprock, thus protecting the basal aquifer from surface contamination. The basal aquifer is used for irrigation throughout the Mana Plain. Drinking water systems are located inland, hydraulically upgradient from the site, where the basal aquifer is not confined by caprock.

The confined basal aquifer is used for irrigation within 4 miles of the site but not for drinking. Four drinking water wells are located in the unconfined portion of the basal aquifer within 4 miles of the site, in hydraulically upgradient locations, not expected to be impacted by site activities. These drinking water wells are not expected to be impacted from activities at the Site. In addition, the upward vertical gradient in the confined portion of the aquifer (below the Mana Plain) results in leakage of fresh water into the surface aquifer sediments, resulting in a near-surface water system that is saline to brackish from the interaction with the marine sediments and coastal surface waters. The upward gradient acts to protect the lower freshwater system from surface contaminant sources other than dense, non-aqueous phase liquids.

The EDR database search identified surrounding properties having the potential of impacting the groundwater and soil conditions at the Site. Two LUST sites identified within a 0.5-mile radius of the Site and at equal or higher elevation. Both sites status is listed as "Cleanup completed (NFA)". Six UST sites were identified within a 0.25-mile radius of the Site and at equal or higher elevation.

Sample results were analyzed by Test America Laboratories, Inc. in Honolulu, Hawaii. Selected soil samples were analyzed for SVOCs, chlorinated pesticides, metals, and dioxins/furans. A total of 6 surface soil samples, 4 sediment samples, 2 duplicate soil samples, 2 duplicate sediment samples and 2 equipment blank samples were collected at the Site. The analytical results of the soil and sediment samples are summarized in Figures 6-1, and Tables 6-1 through 6-6. The complete analytical laboratory data report is included in Appendix J.

As presented in Table 6-1, none of the SVOC analytes of concern in the FHMA were detected above the established action levels.

As presented in Table 6-2 and 6-5, none of the pesticide analytes of concern in the FHMA and MDA were detected above the established action levels.

As presented in Table 6-3, total arsenic was detected at elevated concentrations above the established action levels of 20 mg/Kg. in DU soil samples: FHMA-02; FHMA-05; and FHMA-06, plus the two duplicate samples (FHMA-11 and FHMA-12). Arsenic concentrations greater than the established action levels ranged from 22.7 mg/Kg (FHMA-02) to 97.5 mg/Kg (FHMA-05).

As presented in Table 6-6, arsenic was detected at elevated concentrations above the established action levels of 20 mg/Kg in DU sediment samples: MDA-08; MDA-09; and MDA-10, plus the two duplicate samples (MDA-13 and MDA-14). Arsenic concentrations greater than the established action levels ranged from 20.1 mg/Kg (MDA-08) to 41.6 mg/Kg (MDA-09).

Due to the arsenic exceedances additional bio-accessible arsenic testing was conducted on DU samples with total arsenic above 20 mg/Kg. The results of the bio-accessible arsenic testing were compared the HDOH Tier II action level of 23 mg/Kg, which applies to both Residential/Unrestricted and Commercial/Industrial land use.

As presented in Table 6-7, bio-accessible arsenic concentrations greater than the established action level were reported for only the DU soil samples from FHMA-05 to FHMA-06. The bio-accessible arsenic concentrations were reported at 47.3 mg/Kg for FHMA-05 and 25.4 mg/Kg for FHMA-06.

As presented in Table 6-4, Total TEQ Dioxins were detected at elevated concentrations above the established action levels of 0.00024 mg/Kg for Residential/Unrestricted, and 0.0015 mg/Kg for Commercial/Industrial. Elevated concentrations of Dioxins were found in DU samples: FHMA-03; FHMA-05; and FHMA-06, plus the two duplicate samples (FHMA-11 and FHMA-12). The Dioxin levels for FHMA-05 and FHMA-06 were 0.00062 mg/Kg and 0.00077 mg/Kg, respectively which is above the action level for Residential/Unrestricted, but below the action level for Commercial/Industrial. The Dioxin level reported for FHMA-03, at 0.0018 mg/Kg is above the action levels for both Residential/Unrestricted and Commercial/Industrial.

The Phase I Environmental Site Assessment portion of this report was conducted in conformance with the scope and limitations of ASTM Practice E 1527 at the property of the Kekaha Sugar Mill, 8315 Kekaha road, Kekaha, Kauai, Hawaii. Any exceptions to, or deletions from, this practice are described in Section 7 of this report. This assessment has revealed no evidence of recognized environmental conditions in connection with the property except for the following:

- Soil Sampling results have documented releases of total arsenic in the DUs FHMA-05, FHMA-06 and FHMA-02. These results exceeded the HDOH Tier I EAL of 20 mg/Kg for both Residential/Unrestricted and Commercial/Industrial land use.
- Soil Sampling results have documented releases of bio-accessible arsenic in the DUs FHMA-05 and FHMA-06. These results exceeded the HDOH Tier II EAL of 23 mg/Kg for both Residential/Unrestricted and Commercial/Industrial land use. Bio-accessible sampling results did not exceed HDOH Tier II EALs in FHMA-02.

- Soil Sampling results have documented releases of Dioxins in the DUs FHMA-03, FHMA-05 and FHMA-06. These results exceeded the HDOH Tier I EAL of 0.00024 mg/Kg for both Residential/Unrestricted and 0.0015 mg/Kg for Commercial/Industrial land use.
- Sediment Sampling results have documented releases of total arsenic in the DUs MDA-08, MDA-09 and MDA-10. These results exceeded the HDOH Tier I EAL of 20 mg/Kg for both Residential/Unrestricted and Commercial/Industrial land use. Bio-accessible sampling results did not exceed HDOH Tier II EALs in MDA-08, MDA-09 and MDA-10.
- It is the opinion of environmental professional, Claudette Altamirano, that a release of hazardous materials has occurred from past Kekaha Sugar Mill activities at the Former Herbicide Mixing Areas.

The source of contamination in the MDA is from past Kekaha Sugar Mill activities that likely took place in the Former Seed Dipping Tank Area that drains into the Mill Ditch or Mill Canal.

Further surface soil characterization may be warranted in DUs: FHMA-03, for Dioxins; and FHMA-05; and FHMA-06, for bio-accessible arsenic - in order to determine the vertical and horizontal extent of the contamination. Locations of these DUs are illustrated in Figure 6-1. Redevelopment of the property for residential and/or commercial/industrial purposes may require some limited removal of the affected soils in the immediate vicinity of DUs: FHMA-03; FHMA-05; and FHMA-06, and subsequent confirmation sampling of the impacted areas of the Site.

### **8.1 Environmental Professional Statement**

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional, as defined in 40 CFR Part 312.10.

I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.



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Claudette Altamirano  
Environmental Professional  
California REA-06682  
Weston Solutions, Inc.

## **8.2 Disclaimers**

This Phase I/II Environmental Site Assessment is based on the conditions existing on the date of the WESTON inspection Site investigation. Past conditions were considered on the basis of readily available records, interviews, and recollections. It is possible that past or existing contamination remains undiscovered.

The conclusions presented herein are based on information provided to WESTON, or reasonably available to WESTON.

WESTON does not warrant or guarantee the subject property suitable for any particular purpose, or certify the subject property as "clean".

Future regulatory modifications, agency interpretations, and/or policy changes may affect the compliance status of the subject alignment.

Detailed asbestos, indoor air quality, occupational health and safety, radon, and wetland surveys, which require specialized expertise, were not requested nor included as part of this project.

WESTON does not warrant or guarantee the correctness, completeness, and/or currentness of the information contained in the environmental record sources used for this assessment. Such information is the product of independent investigation by parties other than WESTON and/or information maintained by government agencies.

## **9.0 QUALIFICATIONS**

WESTON utilized qualified professional staff, trained in performing the scope of work required for this Phase I/II TBA. This team included a program manager, registered environmental assessor, project manager, a field manager, and an assistant field manager. Their roles and experience are described in more detail as follows:

- Claudette Altamirano, Registered Environmental Assessor in California, Senior Reviewer and Environmental Professional. Ms. Altamirano has over 20 years of experience in the environmental field.
- Joe DeFao, Program Manager. Mr. DeFao is responsible for the overall performance of all tasks assigned to WESTON by the EPA and working with the EPA QAO to ensure project quality assurance goals are met. Mr. DeFao has over 10 years of experience in the environmental field.
- Samantha Leskie, Project Manager and Field Sampling QC Coordinator. Ms. Leskie is responsible for the overall performance of all tasks assigned to WESTON by the EPA, preparing the SAP, and working with the EPA QAO to ensure project quality assurance goals are met. Ms. Leskie has over 10 years of experience in the environmental field.
- Anthony Rodriguez, Field Manager. Mr. Rodriguez is responsible for handling, documenting, and transporting samples, and generating field documentation of sampling activities. Mr. Rodriguez has over seven years of experience in the environmental field.

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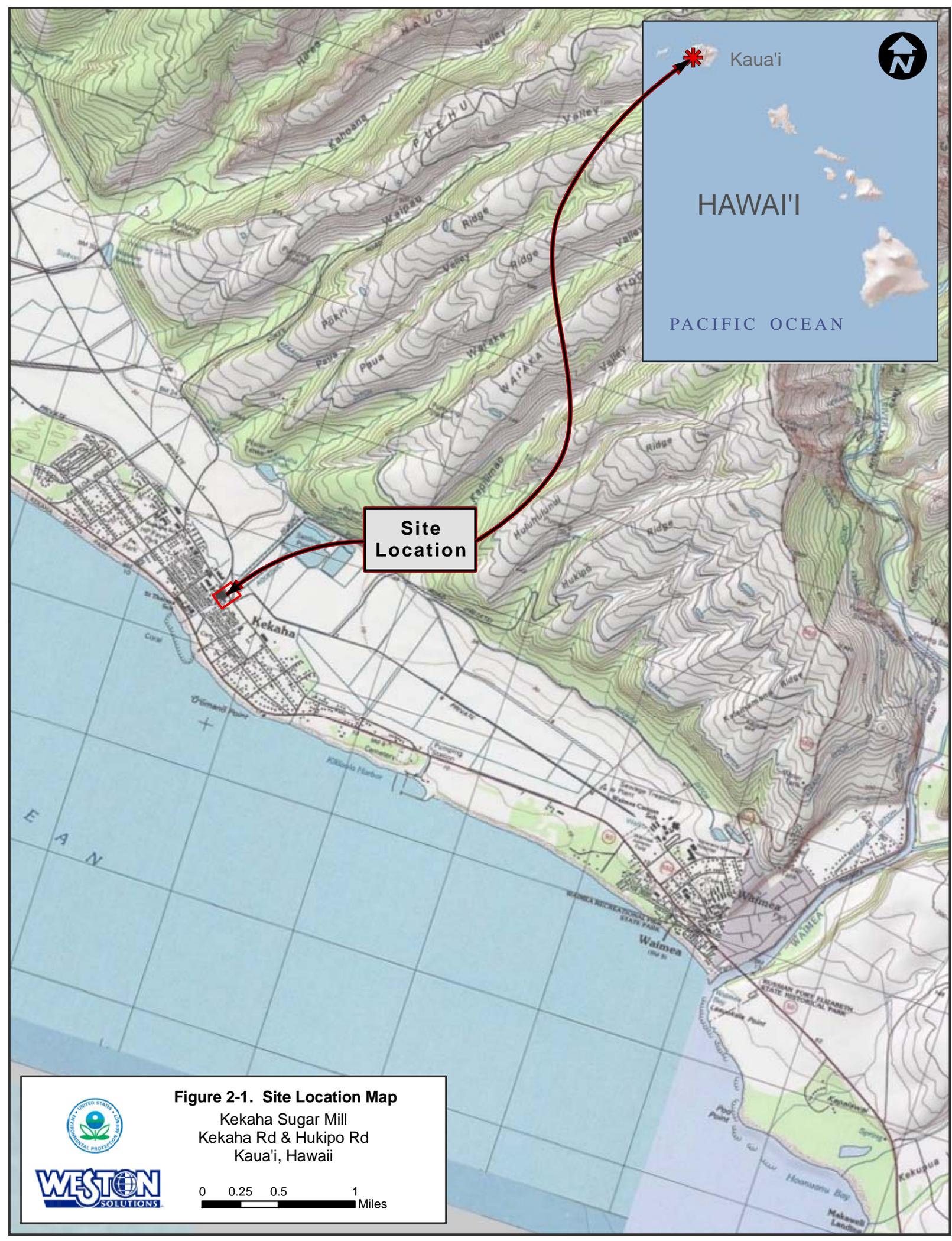
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**Site  
Location**

**Figure 2-1. Site Location Map**  
 Kekaha Sugar Mill  
 Kekaha Rd & Hukipo Rd  
 Kauai, Hawaii



0 0.25 0.5 1  
 Miles

Figure 2-2. Site Layout Map

Kekaha Sugar Mill Site  
Kauai County, Hawaii

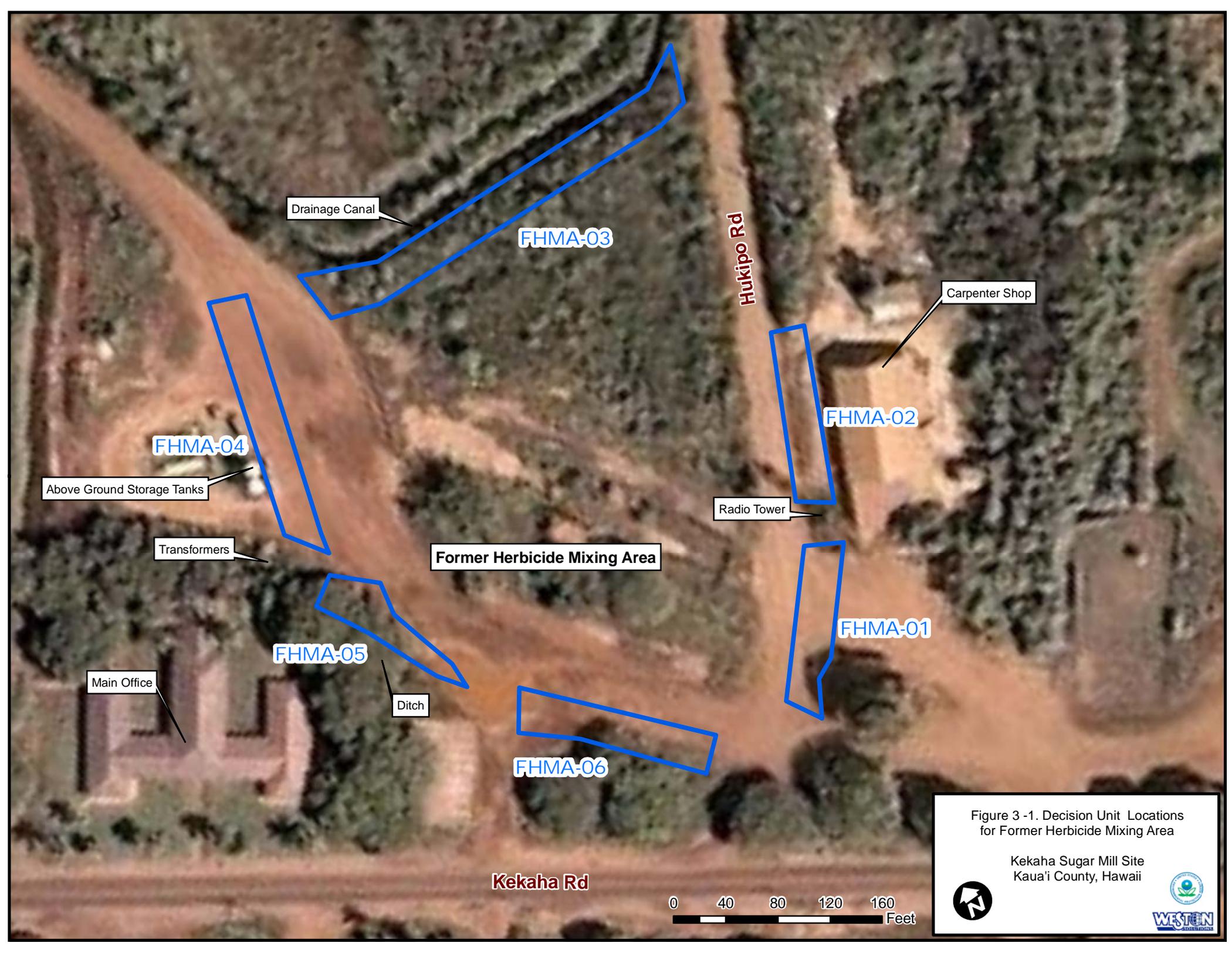


0 50 100 200 Feet



Legend

 Kekaha Sugar Mill Site Approximate Boundary



Drainage Canal

FHMA-03

Hukipo Rd

Carpenter Shop

FHMA-02

FHMA-04

Above Ground Storage Tanks

Radio Tower

Transformers

Former Herbicide Mixing Area

FHMA-01

FHMA-05

Ditch

Main Office

FHMA-06

Kekaha Rd



Figure 3 -1. Decision Unit Locations for Former Herbicide Mixing Area

Kekaha Sugar Mill Site  
Kaua'i County, Hawaii



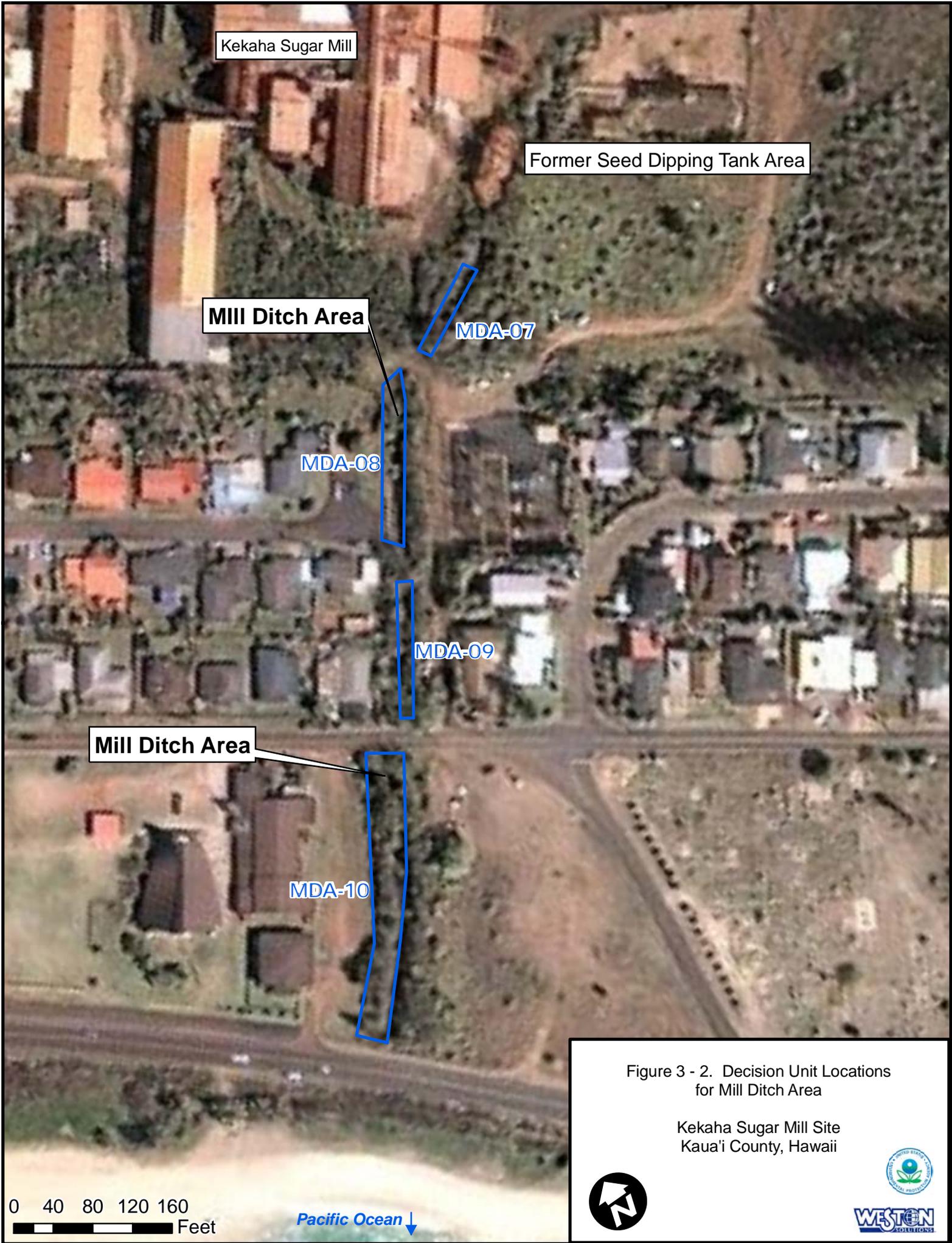


Figure 3 - 2. Decision Unit Locations for Mill Ditch Area

Kekaha Sugar Mill Site  
Kauai County, Hawaii



Decision Units

- No Exceedances Reported
- Exceedances of Action Levels Reported

Dioxins: 0.0018 mg/Kg

FHMA-03

Arsenic: 22.7 mg/Kg

FHMA-02

FHMA-04

Former Herbicide Mixing Area

FHMA-01

Arsenic: 97.5 mg/Kg  
Bio-accessible arsenic: 47.3 mg/Kg  
Dioxins: 0.00062 mg/Kg

FHMA-05

FHMA-06

Arsenic: 69.8 mg/Kg  
Bio-accessible arsenic: 25.4 mg/Kg  
Dioxins: 0.00077 mg/Kg

Kekaha Rd

Mill Ditch Area

MDA-07

MDA-08

Arsenic: 20.1 mg/Kg

Arsenic: 41.6 mg/Kg

MDA-09

Arsenic: 22.8 mg/Kg

MDA-10

Action Levels

Arsenic: 20.0 mg/Kg  
Bio-accessible arsenic: 23.0 mg/Kg  
(for both Residential/Unrestricted and Commercial/Industrial)

Total TEQ Dioxins:  
0.00024 mg/Kg (Residential/Unrestricted)  
0.0015 mg/Kg (Commercial/Industrial)

Figure 6 -1. Decision Unit Testing Results that Exceed Action Levels

Kekaha Sugar Mill Site  
Kauai County, Hawaii



WESTON

0 100 200 300 400 Feet

**Table 5-1  
Sample Locations and Analyses**

<b>Sample ID</b>	<b>Depth (feet bgs)</b>	<b>Sample Area Description</b>	<b>6010 Metals</b>	<b>8081/8082 Pesticides</b>	<b>8270C SVOCs</b>	<b>8290 Dioxins/ Furans</b>
<b>FHMA-01</b>	Surface	Former Herbicide Mixing Area	X	X	X	X
<b>FHMA-02</b>	Surface	Former Herbicide Mixing Area	X	X	X	X
<b>FHMA-03</b>	Surface	Former Herbicide Mixing Area	X	X	X	X
<b>FHMA-04</b>	Surface	Former Herbicide Mixing Area	X	X	X	X
<b>FHMA-05</b>	Surface	Former Herbicide Mixing Area	X	X	X	X
<b>FHMA-06</b>	Surface	Former Herbicide Mixing Area	X	X	X	X
<b>MDA-07</b>	Sediment - top 18"	Mill Ditch Area	X	X		
<b>MDA-08</b>	Sediment - top 18"	Mill Ditch Area	X	X		
<b>MDA-09</b>	Sediment - top 18"	Mill Ditch Area	X	X		
<b>MDA-10</b>	Sediment - top 18"	Mill Ditch Area	X	X		
<b>FHMA-11</b>	Surface	Replicate of FHMA-06	X	X	X	X
<b>FHMA-12</b>	Surface	Replicate of FHMA-06	X	X	X	X
<b>MDA-13</b>	Sediment - top 18"	Replicate of MDA-07	X	X		
<b>MDA-14</b>	Sediment - top 18"	Replicate of MDA-07	X	X		
<b>EB-101129</b>	NA	Equipment Blank	X	X	X	X
<b>EB-101130</b>	NA	Equipment Blank	X	X	X	X
<b>Total Number of Samples</b>			<b>16</b>	<b>16</b>	<b>10</b>	<b>10</b>

SVOCs - Semi Volatile Organic Compounds  
ft bgs = feet below ground surface  
NA - Not Applicable

**Table 6-1  
Semi-Volatile Organic Compounds  
Soil Sampling Results (mg/Kg)**

Analyte	Action Level		FHMA -01	FHMA -02	FHMA -03	FHMA -04	FHMA -05	FHMA -06	FHMA -11	FHMA -12	EB -101129	EB -101130
	Residential/ Unrestricted (mg/Kg)	Commercial/ Industrial (mg/Kg)										
<i>Semi-Volatile Organic Compounds – EPA Method 8270C</i>												
Acenaphthene	20 <sup>b</sup>	20 <sup>b</sup>	ND	ND								
Anthracene	2.5 <sup>b</sup>	2.5 <sup>b</sup>	ND	ND								
Benzo(a)anthracene	1.5 <sup>b</sup>	13 <sup>b</sup>	ND	ND								
Benzo(b)fluoranthene	1.5 <sup>b</sup>	12 <sup>b</sup>	ND	ND								
Benzo(k)fluoranthene	15 <sup>b</sup>	40 <sup>b</sup>	ND	ND								
Benzo(a)pyrene	0.15 <sup>b</sup>	2.1 <sup>b</sup>	ND	ND								
Chrysene	14 <sup>b</sup>	14 <sup>b</sup>	ND	ND								
Dibenzo(a,h)anthracene	0.15 <sup>b</sup>	2.1 <sup>b</sup>	ND	ND								
Fluoranthene	40 <sup>b</sup>	40 <sup>b</sup>	ND	ND								
Fluorene	130 <sup>b</sup>	130 <sup>b</sup>	ND	ND								
Indeno(1,2,3-cd)pyrene	1.5 <sup>b</sup>	21 <sup>b</sup>	ND	ND								
Naphthalene	0.46 <sup>b</sup>	1.9 <sup>b</sup>	ND	ND								
Pyrene	56 <sup>b</sup>	56 <sup>b</sup>	ND	ND								

SVOCs - Semi Volatile Organic Compounds

ND = Not Detected

FHMA-11 is a duplicate sample of FHMA-06

FHMA-12 is a triplicate sample of FHMA-06

EB-101129 is an equipment blank sample

EB-101130 is an equipment blank sample

b - Hawaii Department of Health Tier I Environmental Action Levels (2009).

**Table 6-2  
Pesticides  
Soil Sampling Results (mg/Kg)**

Analyte	Action Level		FHMA -01	FHMA -02	FHMA -03	FHMA -04	FHMA -05	FHMA -06	FHMA -11	FHMA -12	EB -101129	EB -101130
	Residential/ Unrestricted (mg/Kg)	Commercial/ Industrial (mg/Kg)										
<i>Organochlorine Pesticides– EPA Method 8081</i>												
Aldrin	0.029 <sup>b</sup>	0.10 <sup>b</sup>	ND	ND								
Total BHC	0.09 <sup>b</sup>	0.09 <sup>b</sup>	ND	ND								
Technical Chlordane	16 <sup>b</sup>	29 <sup>b</sup>	ND	0.163	0.0234R1,J	ND	ND	ND	ND	ND	ND	ND
4,4-DDD	2.0 <sup>b</sup>	7.2 <sup>b</sup>	ND	0.0017R10,J	ND	ND						
4,4-DDE	1.4 <sup>b</sup>	4.0 <sup>b</sup>	ND	0.0025J	ND	ND	ND	ND	ND	0.00102J	ND	ND
4,4-DDT	1.7 <sup>b</sup>	4.0 <sup>b</sup>	ND	0.0053	ND	ND	0.00347R1,J	ND	ND	ND	ND	ND
Dieldrin	0.0074 <sup>b</sup>	0.0074 <sup>b</sup>	ND	0.0042	ND	ND						
Endosulfan (Total)	0.12 <sup>a</sup>	0.12 <sup>a</sup>	0.0021R1,J	ND	ND							
Endrin (Total)	0.06 <sup>b</sup>	0.06 <sup>b</sup>	ND	0.0009R1,J	0.00726R1,J	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	26 <sup>b</sup>	26 <sup>b</sup>	ND	ND								
Toxaphene	0.44 <sup>b</sup>	1.6 <sup>b</sup>	ND	ND								

ND = Not Detected

FHMA-11 is a duplicate sample of FHMA-06

FHMA-12 is a triplicate sample of FHMA-06

EB-101129 is an equipment blank sample

EB-101130 is an equipment blank sample

a - Hawaii Department of Health Tier II Environmental Action Levels (2010)

b - Hawaii Department of Health Tier I Environmental Action Levels (2009).

R 1 = 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.

J = Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and reater than or equal to the Method Detection Limit (MDL).

**Table 6-3  
Metals  
Soil Sampling Results (mg/Kg)**

Analyte	Action Level		FHMA -01	FHMA -02	FHMA -03	FHMA -04	FHMA -05	FHMA -06	FHMA -11	FHMA -12	EB -101129	EB -101130
	Residential/ Unrestricted (mg/Kg)	Commercial/ Industrial (mg/Kg)										
<i>Metals – EPA Method 6010 and 7471</i>												
Arsenic*	20 <sup>b</sup>	20 <sup>b</sup>	13	<b>22.7</b>	16.8	12.2	<b>97.5</b>	<b>69.8</b>	<b>50.4</b>	<b>40.8</b>	ND	ND
Barium	750 <sup>b</sup>	1500	23.1	45	24.9	23.9	23.4	20.8	21	23.6	ND	ND
Cadmium	12 <sup>b</sup>	12 <sup>b</sup>	0.381J	0.348J	0.611J	0.317J	0.388J	0.472J	0.402J	0.322J	ND	ND
Chromium (Total)	500 <sup>b</sup>	500 <sup>b</sup>	101	59.9	147	78.8	69	88.4	80.8	86	ND	ND
Lead	200 <sup>b</sup>	800 <sup>b</sup>	0.775J	15.7J	16J	3J	25.9	31.8	7.81J	8.09J	ND	ND
Mercury	4.7 <sup>b</sup>	10 <sup>b</sup>	0.0303	0.0432	0.0465	0.0182	0.12	0.0813	0.0545	0.0647	ND	ND
Selenium	10 <sup>b</sup>	10 <sup>b</sup>	2.43J	3.83J	1.58J	3.25J	3.25J	3.25J	2.76J	3.18J	ND	ND
Silver	20 <sup>b</sup>	40 <sup>b</sup>	ND	0.269J	ND	ND	0.11J	ND	ND	0.175J	ND	ND

**Bold** – Sample result exceeds Action Level

FHMA-11 is a duplicate sample of FHMA-06

FHMA-12 is a triplicate sample of FHMA-06

EB-101129 is an equipment blank sample

EB-101130 is an equipment blank sample

b - Hawaii Department of Health Tier I Environmental Action Levels (2009).

\* If Total Arsenic results exceeds the Tier I Action Level, 20 mg/kg; then Bioaccessible Arsenic, Tier II Action level, 23 mg/kg will be used (HDOH 2008).

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).

ND = Not Detected

**Table 6-4  
Dioxins/Furans  
Soil Sampling Results (mg/Kg)**

Analyte	Action Level		FHMA -01	FHMA -02	FHMA -03	FHMA -04	FHMA -05	FHMA -06	FHMA -11	FHMA -12	EB -101129	EB -101130
	Residential/ Unrestricted (mg/Kg)	Commercial/ Industrial (mg/Kg)										
<i>Dioxins / Furans – EPA Method 8290</i>												
Total TEQ Dioxins	0.00024 <sup>a</sup>	0.0015 <sup>a</sup>	0.00012	0.00013	<b>0.0018</b>	0.00013	<b>0.00062</b>	<b>0.00077</b>	<b>0.00060</b>	<b>0.00061</b>	0.00	0.00

**Bold** – Sample result exceeds Action Level

FHMA-11 is a duplicate sample of FHMA-06

FHMA-12 is a triplicate sample of FHMA-06

EB-101129 is an equipment blank sample

EB-101130 is an equipment blank sample

a - Hawaii Department of Health Tier II Environmental Action Levels (2010)

**Table 6-5  
Pesticides  
Sediment Sampling Results (mg/Kg)**

Analyte	Action Level		MDA-07	MDA-08	MDA-09	MDA-10	MDA-13	MDA-14
	Residential/ Unrestricted (mg/Kg)	Commercial/ Industrial (mg/Kg)						
<i>Organochlorine Pesticides– EPA Method 8081</i>								
Aldrin	0.029 <sup>b</sup>	0.10 <sup>b</sup>	ND	ND	ND	ND	ND	ND
Total BHC	0.09 <sup>b</sup>	0.09 <sup>b</sup>	0.018 H1, C-06, R10	0.0014 H1, C-06, R10	0.0058 H1, C-06	0.003 H1, C-06, R10	0.0418 H1, C-06, R1	0.021 H1, C-06, R1
Technical Chlordane	16 <sup>b</sup>	29 <sup>b</sup>	0.109 J1, C-06	0.0767 C-06, H1	0.05 H1, C-06	0.0373 H1, C-06, R10	0.139 H1, C-06	0.139 H1,C-06
4,4-DDD	2.0 <sup>b</sup>	7.2 <sup>b</sup>	ND	ND	ND	0.0013 H1, C-06, R10	ND	ND
4,4-DDE	1.4 <sup>b</sup>	4.0 <sup>b</sup>	0.00193 H1, C-06, R10	0.002 H1, C-06, R1	0.0021 H1, C-06, J	0.0019 H1, C-06, J	0.0012 H1, C-06, J	ND
4,4-DDT	1.7 <sup>b</sup>	4.0 <sup>b</sup>	ND	ND	ND	ND	ND	ND
Dieldrin	0.0074 <sup>b</sup>	0.0074 <sup>b</sup>	0.0018 H1, C-06, R1	ND	ND	ND	ND	ND
Endosulfan (Total)	0.12 <sup>a</sup>	0.12 <sup>a</sup>	ND	ND	ND	ND	ND	ND
Endrin (Total)	0.06 <sup>b</sup>	0.06 <sup>b</sup>	0.0075 H1, C-06, R1	ND	0.0021 H1, C-06, J	0.0126 H1, C-06, R10	0.0079 H1, C-06, R1	0.0074 H1, C-06, R1
Methoxychlor	26 <sup>b</sup>	26 <sup>b</sup>	ND	ND	0.0026 H1, C-06, R10	ND	0.0129 H1, C-06, A-01b	0.0387 H1, C-06, A-01b
Toxaphene	0.44 <sup>b</sup>	1.6 <sup>b</sup>	ND	ND	ND	ND	ND	ND

MDA-13 is a duplicate sample of MDA-07

MDA-14 is a triplicate sample of MDA-07

a - Hawaii Department of Health Tier II Environmental Action Levels (2010)

b - Hawaii Department of Health Tier I Environmental Action Levels (2009).

ND = Not Detected

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).

H1 = Sample analysis performed past the method-specified holding time per client's approval.

C-06 = To reduce matrix interference, the sample extract has undergone TBA (sulfur) clean-up, method 3660B.

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 the 40% and the lower value was reported.

A-01b = Due to the presence of sulfur contamination in the sample a TBA clean up was performed. This clean up reduced the recovery of this analyte as shown by the low recovery in the BS2.

**Table 6-6  
Metals  
Sediment Sampling Results (mg/Kg)**

Analyte	Action Level		MDA-07	MDA-08	MDA-09	MDA-10	MDA-13	MDA-14
	Residential/ Unrestricted (mg/Kg)	Commercial/ Industrial (mg/Kg)						
<i>Metals – EPA Method 6010</i>								
Arsenic*	20 <sup>b</sup>	20 <sup>b</sup>	15.3	<b>20.1</b>	<b>41.6</b>	<b>22.8</b>	15.3	14.6
Barium	750 <sup>b</sup>	1500 <sup>b</sup>	23.5	28.1	41.9	18.3J	24.1	23.3
Cadmium	12 <sup>b</sup>	12 <sup>b</sup>	ND	ND	ND	ND	ND	ND
Chromium (Total)	500 <sup>b</sup>	500 <sup>b</sup>	159	155	256	146	168	154
Lead	200 <sup>b</sup>	800 <sup>b</sup>	20.5	29.8	110	25.5	22.2	13.7J
Mercury	4.7 <sup>b</sup>	10 <sup>b</sup>	0.109	0.106	0.204	0.167	0.0745	0.0714
Selenium	10 <sup>b</sup>	10 <sup>b</sup>	1.01J	1.47J	ND	1.33J	0.686J	1.40J
Silver	20 <sup>b</sup>	40 <sup>b</sup>	1.23J	1.04J	1.27J	1.31J	0.985J	1.10J

**Bold** – Sample result exceeds Action Level

MDA-13 is a duplicate sample of MDA-07

MDA-14 is a triplicate sample of MDA-07

b - Hawaii Department of Health Tier I Environmental Action Levels (2009).

\* If Total Arsenic results exceeds the Tier I Action Level, 20 mg/kg; then Bioaccessible Arsenic, Tier II Action level, 23 mg/kg will be used (HDOH 2008).

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).

**Table 6-7  
Bio-accessible Arsenic  
Soil Sampling Results (mg/Kg)**

Analyte	Action Level		FHMA-02	FHMA-05	FHMA-06	FHMA-11	FHMA-12
	Residential/ Unrestricted (mg/Kg)	Commercial/ Industrial (mg/Kg)					
<i>Metals – EPA Method 6010</i>							
Arsenic Bio-accessible*	23 <sup>b</sup>	23 <sup>b</sup>	8.05	<b>47.3</b>	<b>25.4</b>	15.7	11.8
Arsenic Total	NA	NA	24.1	81.6	63.7	50.8	49.3
Arsenic Bio-accessible (percent by Weight)	NA	NA	33.4	58.0	39.9	30.9	24.0
<b>Bio-accessible Arsenic Sediment Sampling Results (mg/Kg)</b>							
Analyte	Action Level		MDA-08	MDA-09	MDA-10	-	-
	Residential/ Unrestricted (mg/Kg)	Residential/ Unrestricted (mg/Kg)					
<i>Metals – EPA Method 6010</i>							
Arsenic Bio-accessible*	23 <sup>b</sup>	23 <sup>b</sup>	6.52	21.6	4.28	-	-
Arsenic Total	NA	NA	24.8	64.7	26.8	-	-
Arsenic Bio-accessible (percent by Weight)	NA	NA	26.3	33.3	16.0	-	-
<p><b>Bold</b> – Sample result exceeds Action Level            FHMA-11 is a duplicate sample of FHMA-06            FHMA-12 is a triplicate sample of FHMA-06            EB-101129 is an equipment blank sample            EB-101130 is an equipment blank sample            b - Hawaii Department of Health Tier II Environmental Action Levels (2008).            * If Total Arsenic results exceeds the Tier I Action Level, 20 mg/kg; then Bioaccessible Arsenic, Tier II Action level, 23 mg/kg will be used (HDOH 2008).            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).            NA = Not Available</p>							

## **APPENDIX A**

### **SITE RECONNAISSANCE PHOTOGRAPHS**

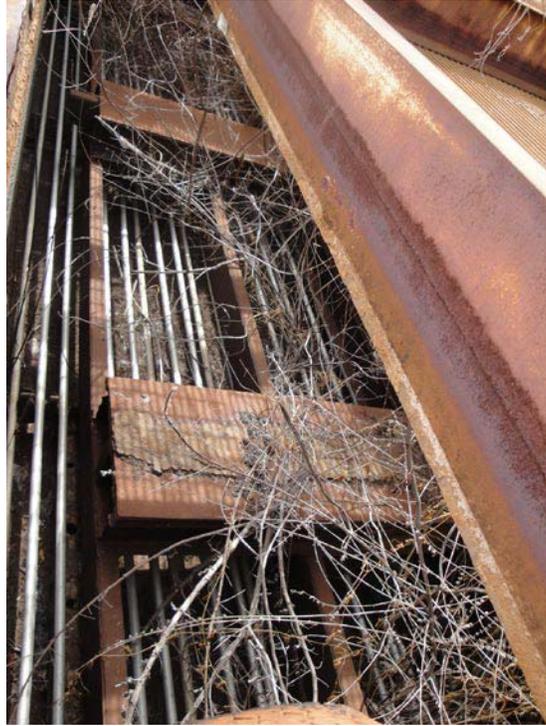
**Photo Documentation  
Kekaha Sugar Mill Site Investigation**



**Photo 1 – Canal access at northern point of DU MDA-08**



**Photo 2 – Former seed dipping tank**



**Photo 3 – Inside of former seed dipping tank**



**Photo 4 – Former seed dipping tank**



**Photo 5 – Former seed dipping tank discharge point into canal**



**Photo 6 – Southern point of DU MDA-07**



**Photo 7 – Sediment sample core device**



**Photo 8 – Example of sediment sample core collected**



**Photo 9 – Southern end of DU MDA-09 looking north**



**Photo 10 – Sampling from the northern end of DU MDA-10**



**Photo 11 – Southern end of DU MDA-10 facing the ocean**



**Photo 12 – Outfall into the ocean**



**Photo 13 – Southern corner of DU FHMA-01**

**APPENDIX B**

**HISTORICAL TOPOGRAPHIC MAPS**



**Kekaha Sugar Mill**

Kauai

Kekaha, HI 96752

Inquiry Number: 2837727.4

August 10, 2010

# The EDR Historical Topographic Map Report

# EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

***Thank you for your business.***  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

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# Historical Topographic Map



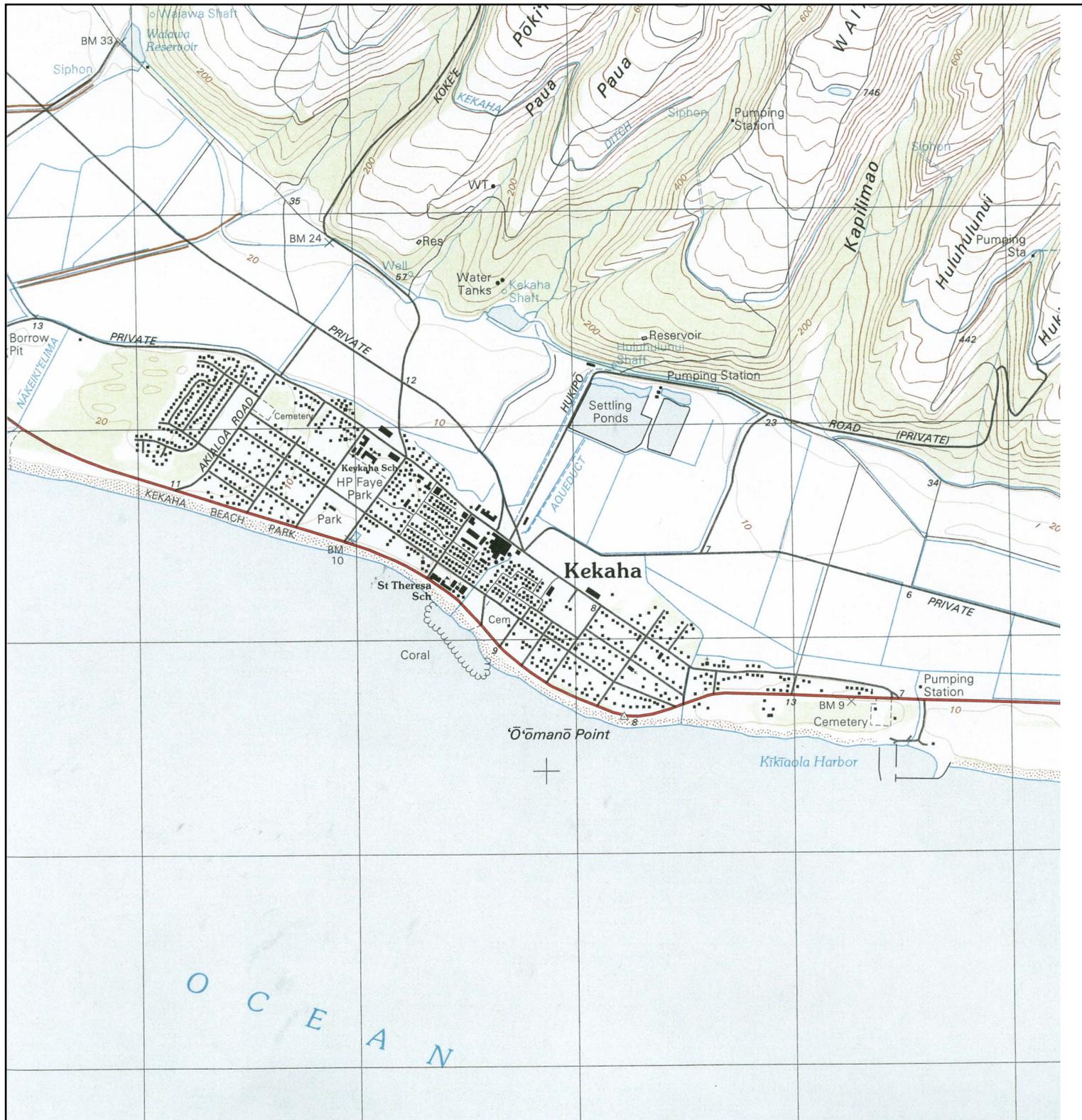
 <b>N</b>	<b>TARGET QUAD</b> NAME: Kekaha, HI MAP YEAR: 1963	<b>SITE NAME:</b> Kekaha Sugar Mill <b>ADDRESS:</b> Kauai Kekaha, HI 96752 <b>LAT/LONG:</b> 21.9679 / 159.7106	<b>CLIENT:</b> Weston Solutions, Inc. <b>CONTACT:</b> Alex Grubb <b>INQUIRY#:</b> 2837727.4 <b>RESEARCH DATE:</b> 08/10/2010
	SERIES: 7.5 SCALE: 1:24,000		

# Historical Topographic Map



	<b>TARGET QUAD</b> NAME: Kekaha, HI MAP YEAR: 1983	<b>SITE NAME:</b> Kekaha Sugar Mill <b>ADDRESS:</b> Kekaha, HI 96752 <b>LAT/LONG:</b> 21.9679 / 159.7106	<b>CLIENT:</b> Weston Solutions, Inc. <b>CONTACT:</b> Alex Grubb <b>INQUIRY#:</b> 2837727.4 <b>RESEARCH DATE:</b> 08/10/2010
	SERIES: 7.5 SCALE: 1:24,000		

# Historical Topographic Map



	<b>TARGET QUAD</b> NAME: Kekaha, HI MAP YEAR: 1991	<b>SITE NAME:</b> Kekaha Sugar Mill <b>ADDRESS:</b> Kekaha, HI 96752 <b>LAT/LONG:</b> 21.9679 / 159.7106	<b>CLIENT:</b> Weston Solutions, Inc. <b>CONTACT:</b> Alex Grubb <b>INQUIRY#:</b> 2837727.4 <b>RESEARCH DATE:</b> 08/10/2010
	SERIES: 7.5 SCALE: 1:24,000		

**APPENDIX C**

**HISTORICAL AERIAL PHOTOGRAPHS**



**Kekaha Sugar Mill**

Kauai

Kekaha, HI 96752

Inquiry Number: 2837727.5

August 11, 2010

## The EDR Aerial Photo Decade Package

# EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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with any questions or comments.

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**Date EDR Searched Historical Sources:**

Aerial Photography August 11, 2010

**Target Property:**

Kauai

Kekaha, HI 96752

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1974	Aerial Photograph. Scale: 1"=1000'	Panel #: 21159-H6, KEKAHA OE S, HI;/Flight Date: October 19, 1974	EDR
1992	Aerial Photograph. Scale: 1"=1000'	Panel #: 21159-H6, KEKAHA OE S, HI;/Flight Date: September 21, 1992	EDR



**INQUIRY #:** 2837727.5

**YEAR:** 1974

 = 1000'





**INQUIRY #:** 2837727.5

**YEAR:** 1992

**|** = 1000'



**APPENDIX D**

**HISTORICAL SANBORN MAPS**



**Kekaha Sugar Mill**

Kauai

Kekaha, HI 96752

Inquiry Number: 2837727.3

August 10, 2010

## Certified Sanborn® Map Report

# Certified Sanborn® Map Report

8/10/10

**Site Name:**

Kekaha Sugar Mill  
Kauai  
Kekaha, HI 96752

**Client Name:**

Weston Solutions, Inc.  
428 13th Street  
Oakland, CA 94612

EDR Inquiry # 2837727.3

Contact: Alex Grubb



The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by Weston Solutions, Inc. were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting [www.edrnet.com/sanborn](http://www.edrnet.com/sanborn) and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

## Certified Sanborn Results:

**Site Name:** Kekaha Sugar Mill  
**Address:** Kauai  
**City, State, Zip:** Kekaha, HI 96752  
**Cross Street:**  
**P.O. #** NA  
**Project:** NA  
**Certification #** 2B0B-404D-BEF9

**Maps Provided:**

1966



Sanborn® Library search results  
Certification # 2B0B-404D-BEF9

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- Library of Congress
- University Publications of America
- EDR Private Collection

*The Sanborn Library LLC Since 1866™*

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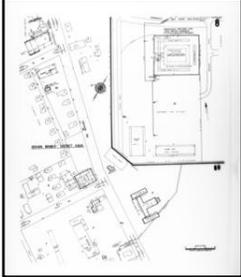
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## Sanborn Sheet Thumbnails

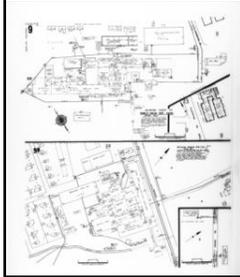
This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.



### 1966 Source Sheets



Volume 1, Sheet 8



Volume 1, Sheet 9b

# 1966 Certified Sanborn Map



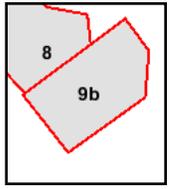
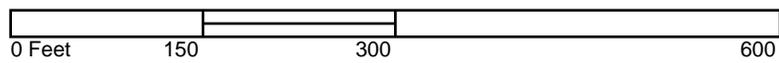
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Certification # 2B0B-404D-BEF9

Site Name: Kekaha Sugar Mill  
 Address: Kauai  
 City, ST, ZIP: Kekaha HI 96752  
 Client: Weston Solutions, Inc.  
 EDR Inquiry: 2837727.3  
 Order Date: 8/10/2010 2:14:01 PM  
 Certification #: 2B0B-404D-BEF9  
 Copyright: 1966



This Certified Sanborn Map combines the following sheets. Outlined areas indicate map sheets within the collection.



Volume 1, Sheet 8  
 Volume 1, Sheet 9b



**APPENDIX E**  
**CITY DIRECTORY**

**Kekaha Sugar Mill**

8135 Kekaha Rd  
Kekaha, HI 96752

Inquiry Number: 2837727.6  
August 12, 2010

# The EDR-City Directory Abstract

## TABLE OF CONTENTS

### SECTION

Executive Summary

Findings

*Thank you for your business.*  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

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## 2009 Enhancements to EDR City Directory Abstract

New for 2009, the EDR City Directory Abstract has been enhanced with additional information and features. These enhancements will make your city directory research process more efficient, flexible, and insightful than ever before. The enhancements will improve the options for selecting adjoining properties, and will speed up your review of the report.

**City Directory Report.** Three important enhancements have been made to the EDR City Directory Abstract:

1. *Executive Summary.* The report begins with an Executive Summary that lists the sources consulted in the preparation of the report. Where available, a parcel map is also provided within the report, showing the locations of properties researched.
2. *Page Images.* Where available, the actual page source images will be included in the Appendix, so that you can review them for information that may provide additional insight. EDR has copyright permission to include these images.
3. *Findings Listed by Location.* Another useful enhancement is that findings are now grouped by address. This will significantly reduce the time you need to review your abstracts. Findings are provided under each property address, listed in reverse chronological order and referencing the source for each entry.

**Options for Selecting Adjoining Properties.** Ensuring that the right adjoining property addresses are searched is one of the biggest challenges that environmental professionals face when conducting city directory historical research. EDR's new enhancements make it easier for you to meet this challenge. Now, when you place an order for the EDR City Directory Abstract, you have the following choices for determining which addresses should be researched.

1. *You Select Addresses and EDR Selects Addresses.* Use the "Add Another Address" feature to specify the addresses you want researched. Your selections will be supplemented by addresses selected by EDR researchers using our established research methods. Where available, a digital map will be shown, indicating property lines overlaid on a color aerial photo and their corresponding addresses. Simply use the address list below the map to check off which properties shown on the map you want to include. You may also select other addresses using the "Add Another Address" feature at the bottom of the list.
2. *EDR Selects Addresses.* Choose this method if you want EDR's researchers to select the addresses to be researched for you, using our established research methods.
3. *You Select Addresses.* Use this method for research based solely on the addresses you select or enter into the system.
4. *Hold City Directory Research Option.* If you choose to select your own adjoining addresses, you may pause production of your EDR City Directory Abstract report until you have had a chance to look at your other EDR reports and sources. Sources for property addresses include: your Certified Sanborn Map Report may show you the location of property addresses; the new EDR Property Tax Map Report may show the location of property addresses; and your field research can supplement these sources with additional address information. To use this capability, simply click "Hold City Directory research" box under "Other Options" at the bottom of the page. Once you have determined what addresses you want researched, go to your EDR Order Status page, select the EDR City Directory Abstract, and enter the addresses and submit for production.

Questions? Contact your EDR representative at 800-352-0050. For more information about all of EDR's 2009 report and service enhancements, visit [www.edrnet.com/2009enhancements](http://www.edrnet.com/2009enhancements)

## EXECUTIVE SUMMARY

### DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

### RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
2010	Polk's City Directory	-	-	-	-
2004	Polk's City Directory	-	X	X	-
1998	Polk's City Directory	-	-	-	-

## FINDINGS

### TARGET PROPERTY INFORMATION

#### ADDRESS

8135 Kekaha Rd  
Kekaha, HI 96752

#### FINDINGS DETAIL

Target Property research detail.

No Addresses Found

## FINDINGS

### ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

#### Kekaha Rd

##### Kekaha Rd

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2004	No addresses listed on street	Polk's City Directory

## FINDINGS

### STREET NOT IDENTIFIED IN RESEARCH SOURCE

The following Streets were researched for this report, and the Streets were not identified in the research source.

#### Street Researched

Kekaha Rd

#### Street Not Identified in Research Source

2010, 1998

### TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

#### Address Researched

8135 Kekaha Rd

#### Address Not Identified in Research Source

2004

### ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

#### Address Researched

Kekaha Rd

#### Address Not Identified in Research Source

No Years Found

**APPENDIX F**

**ENVIRONMENTAL LIEN SEARCH**

**Kekaha Sugar Mill**

Kauai  
Kekaha, HI 96752

Inquiry Number: 2837727.7  
August 12, 2010

# The EDR Environmental LienSearch™ Report

## The EDR Environmental LienSearch™ Report

The EDR Environmental LienSearch Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

***Thank you for your business.***

Please contact EDR at 1-800-352-0050  
with any questions or comments.

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# The EDR Environmental LienSearch™ Report

## TARGET PROPERTY INFORMATION

### ADDRESS

Kauai  
Kekaha Sugar Mill  
Kekaha, HI 96752

### RESEARCH SOURCE

**Source 1:**  
Bureau of Conveyances  
Kauai, HI

### PROPERTY INFORMATION

#### **Deed 1:**

Type of Deed: Quitclaim Deed  
Title is vested in: Kekaha MS, LLC  
Title received from: Pacific Funds, LLC  
Deed Dated: 8/1/2007  
Deed Recorded: 8/9/2007  
Book: NA  
Page: NA  
Volume: NA  
Instrument: 2007143043  
Docket: NA  
Land Record Comments:  
Miscellaneous Comments:

**Legal Description:** See Exhibit

**Legal Current Owner:** Kekaha MS, LLC

**Property Identifiers:** 4-1-3-011-006-0000

**Comments:** See Exhibit

## ENVIRONMENTAL LIEN

Environmental Lien: Found  Not Found

## OTHER ACTIVITY AND USE LIMITATIONS (AULs)

AULs: Found  Not Found

## **Deed Exhibit 1**



R-702 STATE OF HAWAII  
BUREAU OF CONVEYANCES  
RECORDED  
AUG 09, 2007 08:02 AM  
Doc No(s) 2007-143043



/s/ CARL T. WATANABE  
REGISTRAR OF CONVEYANCES

20 2/3 Z13

CONVEYANCE TAX: \$1.00

LAND COURT SYSTEM

REGULAR SYSTEM

After Recordation, Return by: Mail ( ) Pickup (  )

Kekaha MS, LLC  
2970 Wyllie Road  
Princeville, HI 96722



HET7001122AS

TYPE OF DOCUMENT:

QUITCLAIM DEED

PARTIES TO DOCUMENT:

GRANTOR: PACIFIC FUNDS, LLC, a Washington limited liability company

GRANTEE: KEKAHA MS, LLC, a Hawaii limited liability company  
3970 Wyllie Road  
Princeville, Kauai, Hawaii 96722

TAX MAP KEY FOR PROPERTY:

(4) 1-3-011:006

## QUITCLAIM DEED

KNOW ALL PEOPLE BY THESE PRESENTS:

PACIFIC FUNDS, LLC, a Washington limited liability company, whose mailing address is 13817 NE 20th Street, Bellevue, Washington 98005, hereinafter called the "Grantor", in consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to the Grantor by KEKAHA MS, LLC, a Hawaii limited liability company, whose mailing address is 3970 Wyllie Road, Princeville, Kauai, Hawaii 96722, hereinafter called the "Grantee", the receipt of which is acknowledged, remises, releases and quitclaims unto the Grantee, as tenant in severalty its successors and assigns, all of Grantor's rights and interests (if any) in and to that certain Drain Ditch (12 feet wide) that is excepted and reserved in Land Patent Grant Number 8120 to Kekaha Sugar Company, Limited, situate, lying and being at Kekaha, Waimea, District of Kona, Island and County of Kauai, State of Hawaii being the same property quitclaimed to Grantor by that certain instrument dated January 20, 2005 and recorded in the Bureau of Conveyances of the State of Hawaii as Document No. 2005-011607 (hereinafter referred to as the "Property")

AND the reversions, remainders, rents, issues and profits and all of the estate, right, title and interest of the Grantor, both at law and in equity, in and to the property.

TO HAVE AND TO HOLD the property, including the improvements thereon, and all rights, easements, privileges and appurtenances belonging or appertaining to or held and enjoyed with the property, unto the Grantee according to the tenancy herein set forth, forever.

This instrument and the respective covenants of the Grantor and the Grantee shall be binding on and inure to the benefit of the Grantor and the Grantee, respectively. The terms "Grantor" and "Grantee" as and when used herein, or any pronouns used in place thereof, shall mean and include the singular or plural number, individuals, partnerships, trustees and corporations, and each of their respective heirs, personal representatives, successors and assigns. All covenants and obligations undertaken by two or more persons shall be deemed to be joint and several unless a contrary intention is clearly expressed herein.

This Quitclaim Deed may be executed in counterparts. Each counterpart shall be executed by one or more of the parties hereinbefore named and the several counterparts shall constitute one instrument to the same effect as though the signatures of all the parties are upon the same document.

IN WITNESS WHEREOF, the Grantor has duly executed this instrument this First day of August, 2007.

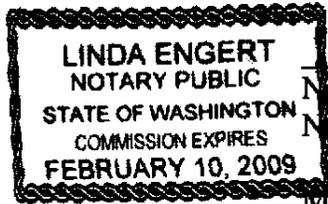
PACIFIC FUNDS, LLC, a Washington limited liability company

By [Signature]  
Al Manjazel  
Its manager

Grantor

STATE OF Washington )  
COUNTY OF King ) SS:

On this 15 day of August, 2007, before me appeared Al Manjazel, to me personally known, who, being by me duly sworn or affirmed, did say that such person(s) executed the foregoing instrument as the free act and deed of such person(s), and if applicable, in the capacities shown, having been duly authorized to execute such instrument in such capacities.



[Signature]

Name of Notary: Linda Engert  
Notary Public, in and for said County and State.  
My commission expires: 2/10/09

## **APPENDIX G**

### **EDR DATABASE REPORT**

**Kekaha Sugar Mill**

Kauai

Kekaha, HI 96752

Inquiry Number: 2837727.2s

August 09, 2010

**The EDR Radius Map™ Report with GeoCheck®**



440 Wheelers Farms Road  
Milford, CT 06461  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

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## EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

### TARGET PROPERTY INFORMATION

#### ADDRESS

KAUAI  
KEKAHA, HI 96752

#### COORDINATES

Latitude (North): 21.967900 - 21° 58' 4.4"  
Longitude (West): 159.710600 - 159° 42' 38.2"  
Universal Transverse Mercator: Zone 4  
UTM X (Meters): 426632.2  
UTM Y (Meters): 2429301.8  
Elevation: 6 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 21159-H6 KEKAHA OE S, HI  
Most Recent Revision: Not reported

### TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

### DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

### STANDARD ENVIRONMENTAL RECORDS

#### ***Federal NPL site list***

NPL..... National Priority List  
Proposed NPL..... Proposed National Priority List Sites  
NPL LIENS..... Federal Superfund Liens

#### ***Federal Delisted NPL site list***

Delisted NPL..... National Priority List Deletions

## EXECUTIVE SUMMARY

### ***Federal CERCLIS list***

FEDERAL FACILITY..... Federal Facility Site Information listing

### ***Federal CERCLIS NFRAP site List***

CERC-NFRAP..... CERCLIS No Further Remedial Action Planned

### ***Federal RCRA CORRACTS facilities list***

CORRACTS..... Corrective Action Report

### ***Federal RCRA non-CORRACTS TSD facilities list***

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

### ***Federal RCRA generators list***

RCRA-LQG..... RCRA - Large Quantity Generators

RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator

### ***Federal institutional controls / engineering controls registries***

US ENG CONTROLS..... Engineering Controls Sites List

US INST CONTROL..... Sites with Institutional Controls

### ***Federal ERNS list***

ERNS..... Emergency Response Notification System

### ***State and tribal landfill and/or solid waste disposal site lists***

SWF/LF..... Permitted Landfills in the State of Hawaii

### ***State and tribal leaking storage tank lists***

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

### ***State and tribal registered storage tank lists***

INDIAN UST..... Underground Storage Tanks on Indian Land

FEMA UST..... Underground Storage Tank Listing

### ***State and tribal institutional control / engineering control registries***

ENG CONTROLS..... Engineering Control Sites

INST CONTROL..... Sites with Institutional Controls

### ***State and tribal voluntary cleanup sites***

INDIAN VCP..... Voluntary Cleanup Priority Listing

VCP..... Voluntary Response Program Sites

### ***State and tribal Brownfields sites***

BROWNFIELDS..... Brownfields Sites

# EXECUTIVE SUMMARY

## ADDITIONAL ENVIRONMENTAL RECORDS

### **Local Brownfield lists**

US BROWNFIELDS..... A Listing of Brownfields Sites

### **Local Lists of Landfill / Solid Waste Disposal Sites**

ODI..... Open Dump Inventory  
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations  
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

### **Local Lists of Hazardous waste / Contaminated Sites**

US CDL..... Clandestine Drug Labs  
US HIST CDL..... National Clandestine Laboratory Register

### **Local Land Records**

LIENS 2..... CERCLA Lien Information  
LUCIS..... Land Use Control Information System

### **Records of Emergency Release Reports**

HMIRS..... Hazardous Materials Information Reporting System  
SPILLS..... Release Notifications

### **Other Ascertainable Records**

RCRA-NonGen..... RCRA - Non Generators  
DOT OPS..... Incident and Accident Data  
DOD..... Department of Defense Sites  
FUDS..... Formerly Used Defense Sites  
CONSENT..... Superfund (CERCLA) Consent Decrees  
ROD..... Records Of Decision  
UMTRA..... Uranium Mill Tailings Sites  
MINES..... Mines Master Index File  
TRIS..... Toxic Chemical Release Inventory System  
TSCA..... Toxic Substances Control Act  
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)  
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing  
SSTS..... Section 7 Tracking Systems  
ICIS..... Integrated Compliance Information System  
PADS..... PCB Activity Database System  
MLTS..... Material Licensing Tracking System  
RADINFO..... Radiation Information Database  
FINDS..... Facility Index System/Facility Registry System  
RAATS..... RCRA Administrative Action Tracking System  
UIC..... Underground Injection Wells Listing  
DRYCLEANERS..... Permitted Drycleaner Facility Listing  
AIRS..... List of Permitted Facilities  
INDIAN RESERV..... Indian Reservations

## EXECUTIVE SUMMARY

SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing  
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List  
COAL ASH DOE..... Sleam-Electric Plan Operation Data  
PCB TRANSFORMER..... PCB Transformer Registration Database

### EDR PROPRIETARY RECORDS

#### ***EDR Proprietary Records***

Manufactured Gas Plants..... EDR Proprietary Manufactured Gas Plants

### SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

### STANDARD ENVIRONMENTAL RECORDS

#### ***Federal CERCLIS list***

CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the CERCLIS list, as provided by EDR, and dated 01/29/2010 has revealed that there is 1 CERCLIS site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b><i>KEKAHA SUGAR CO LTD</i></b>	<b><i>8315 KEKAHA RD</i></b>	<b><i>NNW 0 - 1/8 (0.068 mi.)</i></b>	<b><i>A7</i></b>	<b><i>11</i></b>

#### ***Federal RCRA generators list***

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or

## EXECUTIVE SUMMARY

dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 02/17/2010 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>KEKAHA SUGAR CO LTD</b>	<b>8315 KEKAHA RD</b>	<b>NNW 0 - 1/8 (0.068 mi.)</b>	<b>A7</b>	<b>11</b>

### **State- and tribal - equivalent CERCLIS**

SHWS: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Health.

A review of the SHWS list, as provided by EDR, and dated 12/01/2009 has revealed that there is 1 SHWS site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>KEKAHA SUGAR CO, LTD</b>	<b>8315 KEKAHA RD</b>	<b>NNW 0 - 1/8 (0.068 mi.)</b>	<b>A6</b>	<b>10</b>

### **State and tribal leaking storage tank lists**

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Health's Active Leaking Underground Storage Tank Log Listing.

A review of the LUST list, as provided by EDR, and dated 06/01/2010 has revealed that there are 2 LUST sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>CHARLIE'S STATION</b> Facility Status: Site Cleanup Completed (NFA)	<b>8314 KEKAHA RD</b>	<b>NNW 0 - 1/8 (0.067 mi.)</b>	<b>A1</b>	<b>7</b>
<b>KEKAHA SUGAR POINT 2</b> Facility Status: Site Cleanup Completed (NFA)	<b>8315 KEKAHA RD</b>	<b>NNW 0 - 1/8 (0.068 mi.)</b>	<b>A4</b>	<b>9</b>

### **State and tribal registered storage tank lists**

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Health's Listing of Underground Storage Tanks.

A review of the UST list, as provided by EDR, and dated 06/01/2010 has revealed that there are 6 UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>CHARLIE'S STATION</b>	<b>8314 KEKAHA RD</b>	<b>NNW 0 - 1/8 (0.067 mi.)</b>	<b>A1</b>	<b>7</b>

## EXECUTIVE SUMMARY

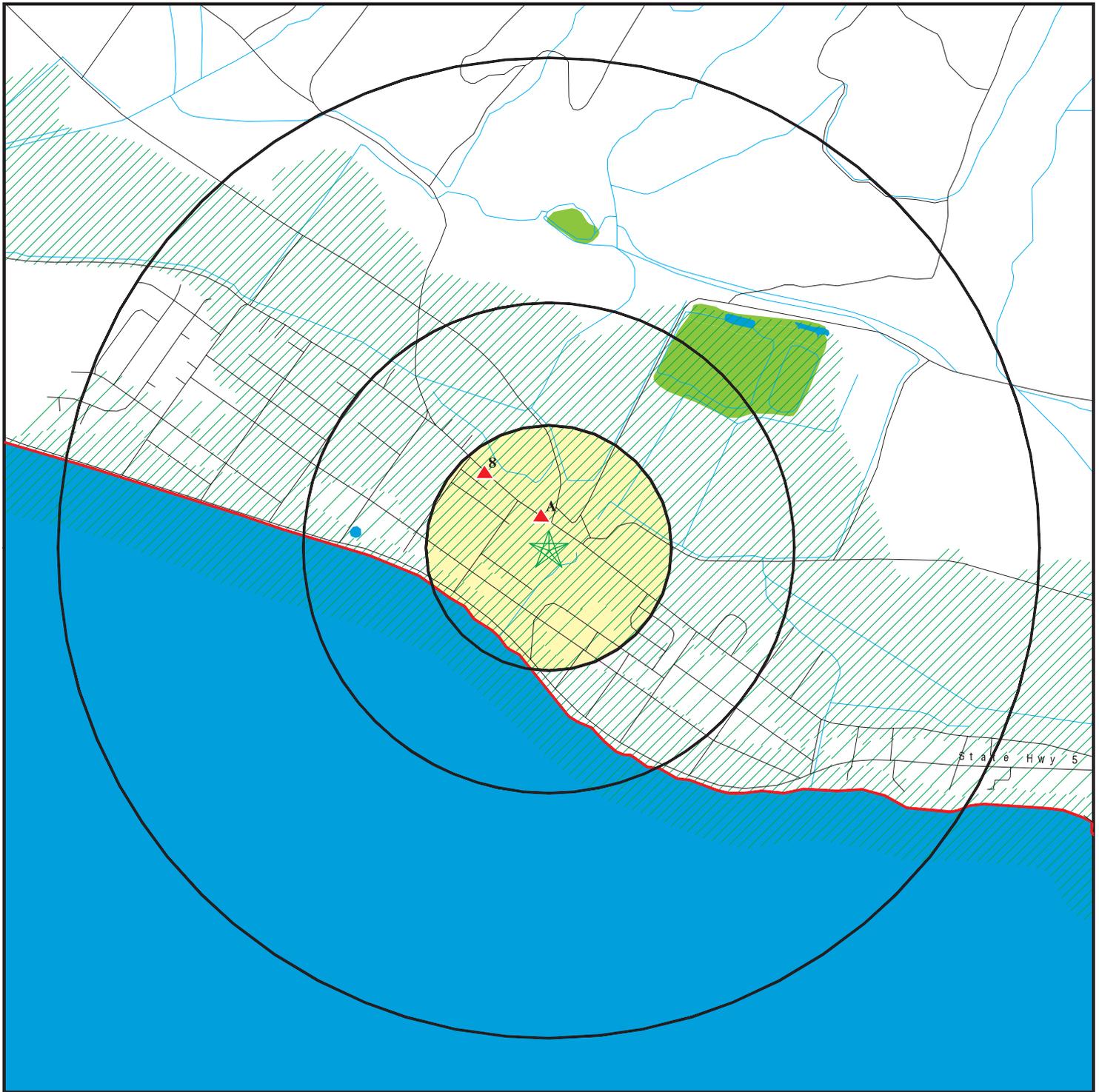
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
KEKAHA SUGAR POINT 1B	8315 KEKAHA RD	NNW 0 - 1/8 (0.068 mi.)	A2	7
KEKAHA SUGAR POINT 4	8315 KEKAHA RD	NNW 0 - 1/8 (0.068 mi.)	A3	8
<b>KEKAHA SUGAR POINT 2</b>	<b>8315 KEKAHA RD</b>	<b>NNW 0 - 1/8 (0.068 mi.)</b>	<b>A4</b>	<b>9</b>
KEKAHA SUGAR POINT 1A	8315 KEKAHA RD	NNW 0 - 1/8 (0.068 mi.)	A5	9
KEKAHA CENTRAL OFFICE	8266-A KEKAHA RD	NW 1/8 - 1/4 (0.203 mi.)	8	16

## EXECUTIVE SUMMARY

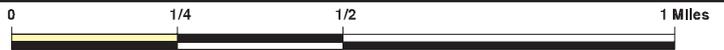
Due to poor or inadequate address information, the following sites were not mapped:

<u>Site Name</u>	<u>Database(s)</u>
KEKAHA SUGAR CO, LTD - KEKAHA WOOD	SHWS, ENG CONTROLS
KAUAI TEST FACILITY	SHWS, SPILLS
KEKAHA LANDFILL	SHWS, SPILLS
KEKAHA RD	FINDS, SHWS, SPILLS
MEADOW GOLD DAIRIES, INC- WAIMEA	SHWS
KOKEE RD	FINDS, SHWS
WIAWA VALLEY	CERCLIS
AKITA ENTERPRISES, LTD - KEKAHA	UST
9862 KAUMUALII HWY	RCRA-SQG, FINDS
I 385 KAUMUALII HWY	RCRA-CESQG
KEKAHA BEACH ABANDONED DRUM	FINDS
KEKAHA LANDFILL / PHASE II	FINDS
PIONEER HI-BRED INTERNATIONAL, INC	FINDS
KEKAHA RESIDENCE LOTS, UNIT 4	FINDS
KEKAHA BEACH ABANDONED DRUM	SPILLS

# OVERVIEW MAP - 2837727.2s



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- ☒ National Priority List Sites
- ☒ Dept. Defense Sites



- ☒ Indian Reservations BIA
- ▲ County Boundary
- ▲ Oil & Gas pipelines
- ▨ 100-year flood zone
- ▨ 500-year flood zone
- National Wetland Inventory

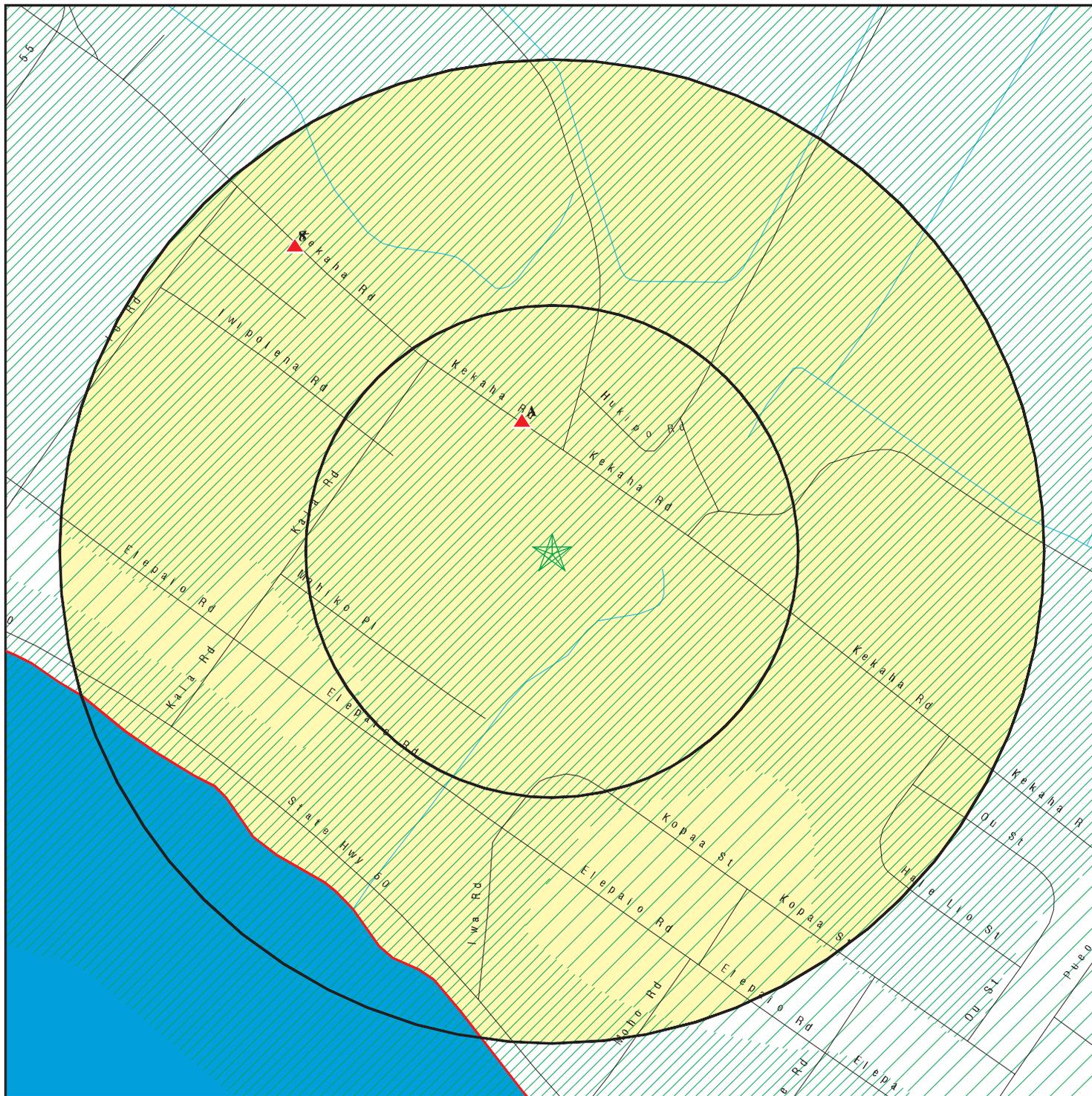


This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Kekaha Sugar Mill  
 ADDRESS: Kauai  
 Kekaha HI 96752  
 LAT/LONG: 21.9679 / 159.7106

CLIENT: Weston Solutions, Inc.  
 CONTACT: Alex Grubb  
 INQUIRY #: 2837727.2s  
 DATE: August 09, 2010 7:29 pm

# DETAIL MAP - 2837727.2s



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ⚙ Manufactured Gas Plants
- ⚡ Sensitive Receptors
- 🚧 National Priority List Sites
- 🏠 Dept. Defense Sites

- 🏠 Indian Reservations BIA
- 📏 County Boundary
- 🛢 Oil & Gas pipelines
- 🌊 100-year flood zone
- 🌊 500-year flood zone
- 🌿 National Wetland Inventory

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Kekaha Sugar Mill  
 ADDRESS: Kauai  
 Kekaha HI 96752  
 LAT/LONG: 21.9679 / 159.7106

CLIENT: Weston Solutions, Inc.  
 CONTACT: Alex Grubb  
 INQUIRY #: 2837727.2s  
 DATE: August 09, 2010 7:29 pm

## MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b>STANDARD ENVIRONMENTAL RECORDS</b>								
<b><i>Federal NPL site list</i></b>								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
NPL LIENS		TP	NR	NR	NR	NR	NR	0
<b><i>Federal Delisted NPL site list</i></b>								
Delisted NPL		1.000	0	0	0	0	NR	0
<b><i>Federal CERCLIS list</i></b>								
CERCLIS		0.500	1	0	0	NR	NR	1
FEDERAL FACILITY		1.000	0	0	0	0	NR	0
<b><i>Federal CERCLIS NFRAP site List</i></b>								
CERC-NFRAP		0.500	0	0	0	NR	NR	0
<b><i>Federal RCRA CORRACTS facilities list</i></b>								
CORRACTS		1.000	0	0	0	0	NR	0
<b><i>Federal RCRA non-CORRACTS TSD facilities list</i></b>								
RCRA-TSDF		0.500	0	0	0	NR	NR	0
<b><i>Federal RCRA generators list</i></b>								
RCRA-LQG		0.250	0	0	NR	NR	NR	0
RCRA-SQG		0.250	1	0	NR	NR	NR	1
RCRA-CESQG		0.250	0	0	NR	NR	NR	0
<b><i>Federal institutional controls / engineering controls registries</i></b>								
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	0	NR	NR	0
<b><i>Federal ERNS list</i></b>								
ERNS		TP	NR	NR	NR	NR	NR	0
<b><i>State- and tribal - equivalent CERCLIS</i></b>								
SHWS		1.000	1	0	0	0	NR	1
<b><i>State and tribal landfill and/or solid waste disposal site lists</i></b>								
SWF/LF		0.500	0	0	0	NR	NR	0
<b><i>State and tribal leaking storage tank lists</i></b>								
LUST		0.500	2	0	0	NR	NR	2
INDIAN LUST		0.500	0	0	0	NR	NR	0
<b><i>State and tribal registered storage tank lists</i></b>								
UST		0.250	5	1	NR	NR	NR	6

## MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN UST		0.250	0	0	NR	NR	NR	0
FEMA UST		0.250	0	0	NR	NR	NR	0
<b><i>State and tribal institutional control / engineering control registries</i></b>								
ENG CONTROLS		0.500	0	0	0	NR	NR	0
INST CONTROL		0.500	0	0	0	NR	NR	0
<b><i>State and tribal voluntary cleanup sites</i></b>								
INDIAN VCP		0.500	0	0	0	NR	NR	0
VCP		0.500	0	0	0	NR	NR	0
<b><i>State and tribal Brownfields sites</i></b>								
BROWNFIELDS		0.500	0	0	0	NR	NR	0
<b><u>ADDITIONAL ENVIRONMENTAL RECORDS</u></b>								
<b><i>Local Brownfield lists</i></b>								
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
<b><i>Local Lists of Landfill / Solid Waste Disposal Sites</i></b>								
ODI		0.500	0	0	0	NR	NR	0
DEBRIS REGION 9		0.500	0	0	0	NR	NR	0
INDIAN ODI		0.500	0	0	0	NR	NR	0
<b><i>Local Lists of Hazardous waste / Contaminated Sites</i></b>								
US CDL		TP	NR	NR	NR	NR	NR	0
US HIST CDL		TP	NR	NR	NR	NR	NR	0
<b><i>Local Land Records</i></b>								
LIENS 2		TP	NR	NR	NR	NR	NR	0
LUCIS		0.500	0	0	0	NR	NR	0
<b><i>Records of Emergency Release Reports</i></b>								
HMIRS		TP	NR	NR	NR	NR	NR	0
SPILLS		TP	NR	NR	NR	NR	NR	0
<b><i>Other Ascertainable Records</i></b>								
RCRA-NonGen		0.250	0	0	NR	NR	NR	0
DOT OPS		TP	NR	NR	NR	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	0	0	0	0	NR	0
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FTTS		TP	NR	NR	NR	NR	NR	0
HIST FTTS		TP	NR	NR	NR	NR	NR	0
SSTS		TP	NR	NR	NR	NR	NR	0
ICIS		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
RADINFO		TP	NR	NR	NR	NR	NR	0
FINDS		TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
UIC		TP	NR	NR	NR	NR	NR	0
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
AIRS		TP	NR	NR	NR	NR	NR	0
INDIAN RESERV		1.000	0	0	0	0	NR	0
SCRD DRYCLEANERS		0.500	0	0	0	NR	NR	0
COAL ASH EPA		0.500	0	0	0	NR	NR	0
COAL ASH DOE		TP	NR	NR	NR	NR	NR	0
PCB TRANSFORMER		TP	NR	NR	NR	NR	NR	0

### EDR PROPRIETARY RECORDS

#### *EDR Proprietary Records*

Manufactured Gas Plants		1.000	0	0	0	0	NR	0
-------------------------	--	-------	---	---	---	---	----	---

#### NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Site

Database(s)

EDR ID Number  
EPA ID Number

**A1**  
**NNW**  
**< 1/8**  
**0.067 mi.**  
**352 ft.**

**CHARLIE'S STATION**  
**8314 KEKAHA RD**  
**KEKAHA, HI 96752**  
  
**Site 1 of 7 in cluster A**

**LUST** **U003222423**  
**UST** **N/A**

**Relative:**  
**Higher**

**LUST:**  
Facility ID: 9-700621  
Facility Status: Site Cleanup Completed (NFA)  
Facility Status Date: 11/20/2000  
Release ID: 970120  
Project Officer: Richard Takaba

**Actual:**  
**7 ft.**

**UST:**  
Facility ID: 9-700621  
Owner: KAUAI PETROLEUM CO., LTD.  
Owner Address: P.O. BOX 1128  
Ownder City,St,Zip: Kekaha, 96752 96752

Tank ID: R-12-1  
Date Installed: 5/6/1970  
**Tank Status: Permanently Out of Use**  
Date Closed: 8/4/1997  
Tank Capacity: 2000  
Substance: Gasoline

Tank ID: R-12-2  
Date Installed: 5/6/1970  
**Tank Status: Permanently Out of Use**  
Date Closed: 8/4/1997  
Tank Capacity: 2000  
Substance: Gasoline

**A2**  
**NNW**  
**< 1/8**  
**0.068 mi.**  
**360 ft.**

**KEKAHA SUGAR POINT 1B**  
**8315 KEKAHA RD**  
**KEKAHA, HI 96752**  
  
**Site 2 of 7 in cluster A**

**UST** **U003222431**  
**N/A**

**Relative:**  
**Higher**

**UST:**  
Facility ID: 9-700895  
Owner: KEKAHA SUGAR COMPANY, LTD.  
Owner Address: P.O. BOX 549  
Ownder City,St,Zip: Kekaha, 96752 96752

**Actual:**  
**7 ft.**

Tank ID: R-01  
Date Installed: 4/7/1948  
**Tank Status: Permanently Out of Use**  
Date Closed: 12/21/1988  
Tank Capacity: 2000  
Substance: Gasoline

Tank ID: R-02  
Date Installed: 4/7/1948  
**Tank Status: Permanently Out of Use**  
Date Closed: 12/21/1988  
Tank Capacity: 2000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

KEKAHA SUGAR POINT 1B (Continued)

U003222431

Substance: Gasoline  
  
Tank ID: R-03  
Date Installed: 4/7/1948  
**Tank Status: Permanently Out of Use**  
Date Closed: 12/21/1988  
Tank Capacity: 1000  
Substance: Gasoline

Tank ID: R-04  
Date Installed: 4/7/1948  
**Tank Status: Permanently Out of Use**  
Date Closed: 12/21/1988  
Tank Capacity: 2000  
Substance: Gasoline

Tank ID: R-5  
Date Installed: Not reported  
**Tank Status: Permanently Out of Use**  
Date Closed: 4/16/2001  
Tank Capacity: 5000  
Substance: Used Oil

A3  
NNW  
< 1/8  
0.068 mi.  
360 ft.

KEKAHA SUGAR POINT 4  
8315 KEKAHA RD  
KEKAHA, HI 96752  
  
Site 3 of 7 in cluster A

UST U003222434  
N/A

Relative:  
Higher

UST:  
Facility ID: 9-700898  
Owner: KEKAHA SUGAR COMPANY, LTD.  
Owner Address: P.O. BOX 549  
Ownder City,St,Zip: Kekaha, 96752 96752

Actual:  
7 ft.

Tank ID: R-01  
Date Installed: 4/7/1948  
**Tank Status: Permanently Out of Use**  
Date Closed: Not reported  
Tank Capacity: 2325  
Substance: Diesel

Tank ID: R-02  
Date Installed: 4/7/1948  
**Tank Status: Permanently Out of Use**  
Date Closed: Not reported  
Tank Capacity: 2535  
Substance: Diesel

Tank ID: R-03  
Date Installed: 4/7/1948  
**Tank Status: Permanently Out of Use**  
Date Closed: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KEKAHA SUGAR POINT 4 (Continued)**

**U003222434**

Tank Capacity: 2115  
Substance: Diesel

**A4  
NNW  
< 1/8  
0.068 mi.  
360 ft.**

**KEKAHA SUGAR POINT 2  
8315 KEKAHA RD  
KEKAHA, HI 96752  
Site 4 of 7 in cluster A**

**LUST U003222432  
UST N/A**

**Relative:  
Higher**

**LUST:**  
Facility ID: 9-700896  
Facility Status: Site Cleanup Completed (NFA)  
Facility Status Date: 8/2/2001  
Release ID: 900126  
Project Officer: Mark Sutterfield

**Actual:  
7 ft.**

**UST:**  
Facility ID: 9-700896  
Owner: KEKAHA SUGAR COMPANY, LTD.  
Owner Address: P.O. BOX 549  
Ownder City,St,Zip: Kekaha, 96752 96752

Tank ID: R-001  
Date Installed: 4/7/1964  
**Tank Status: Permanently Out of Use**  
Date Closed: Not reported  
Tank Capacity: 6000  
Substance: Diesel

**A5  
NNW  
< 1/8  
0.068 mi.  
360 ft.**

**KEKAHA SUGAR POINT 1A  
8315 KEKAHA RD  
KEKAHA, HI 96752  
Site 5 of 7 in cluster A**

**UST U003222428  
N/A**

**Relative:  
Higher**

**UST:**  
Facility ID: 9-700684  
Owner: KEKAHA SUGAR COMPANY, LTD.  
Owner Address: P.O. BOX 549  
Ownder City,St,Zip: Kekaha, 96752 96752

**Actual:  
7 ft.**

Tank ID: R-01  
Date Installed: 4/7/1964  
**Tank Status: Permanently Out of Use**  
Date Closed: 12/21/1988  
Tank Capacity: 5750  
Substance: Gasoline

Tank ID: R-02  
Date Installed: 4/7/1948  
**Tank Status: Permanently Out of Use**  
Date Closed: 12/21/1988  
Tank Capacity: 3150  
Substance: Gasoline

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**A6**  
**NNW**  
**< 1/8**  
**0.068 mi.**  
**360 ft.**

**KEKAHA SUGAR CO, LTD**  
**8315 KEKAHA RD**  
**KEKAHA, HI 96752**  
  
**Site 6 of 7 in cluster A**

**SHWS** **S106818381**  
**SPILLS** **N/A**

**Relative:**  
**Higher**

SHWS:

Organization:	Amfac Sugar Kauai
Supplemental Location Text:	Not reported
Island:	Kauai
Environmental Interest:	Kekaha Sugar Co., Ltd.
Hid Number:	HID00875203
Facility Registry Identifier:	110001322827
Lead Agency:	HEER
Program:	State
Project Manager:	Melody Calisay
Hazard Priority:	Low
Site Status:	Ongoing
Action:	Response
Potential Hazards And Controls:	Hazard Present
Closure Document Title:	Not reported
Date Of Closure Document:	Not reported

**Actual:**  
**7 ft.**

HI SPILLS:

Island:	Kauai
Supplemental Loc. Text:	Not reported
Case Number:	19910811
HID Number:	HID00875203
Facility Registry Id:	110001322827
Lead and Program:	HEER EP&R
ER:	Not reported
Units:	Kekaha Sugar Mill Transformer Fire
Substances:	Transformer Insulation
Less Or Greater Than:	Not reported
Numerical Quantity:	Not reported
Units:	Not reported
Activity Type:	Response
Activity Lead:	Not reported
Assignment End Date:	Not reported
Result:	7
File Under:	Amfac Sugar Kauai

Island:	Kauai
Supplemental Loc. Text:	Not reported
Case Number:	20010223-1409
HID Number:	HID00875203
Facility Registry Id:	110001322827
Lead and Program:	HEER EP&R
ER:	No
Units:	Kauai AMFAC Sugar Mill - Truck Spill
Substances:	Transformer Oil
Less Or Greater Than:	Not reported
Numerical Quantity:	250
Units:	Gallons
Activity Type:	Response
Activity Lead:	Terry Corpus
Assignment End Date:	Not reported
Result:	7
File Under:	Amfac Sugar Kauai

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KEKAHA SUGAR CO, LTD (Continued)**

**S106818381**

Island: Kauai  
Supplemental Loc. Text: Not reported  
Case Number: 20010423-1105  
HID Number: HID00875203  
Facility Registry Id: 110001322827  
Lead and Program: HEER EP&R  
ER: No  
Units: KEKAHA Sugar mill  
Substances: used oil  
Less Or Greater Than: Not reported  
Numerical Quantity: 1000  
Units: Gallons  
Activity Type: Response  
Activity Lead: Mike Cripps  
Assignment End Date: Not reported  
Result: 7  
File Under: Amfac Sugar Kauai

**A7  
NNW  
< 1/8  
0.068 mi.  
360 ft.**

**KEKAHA SUGAR CO LTD  
8315 KEKAHA RD  
KEKAHA, HI 96752  
Site 7 of 7 in cluster A**

**CERCLIS 1000146368  
RCRA-SQG HID000875203  
FINDS**

**Relative:  
Higher**

CERCLIS:  
Site ID: 0905693  
Federal Facility: Not a Federal Facility  
NPL Status: Not on the NPL  
Non NPL Status: Assessment Complete - Decision Needed

**Actual:  
7 ft.**

CERCLIS Site Contact Name(s):

Contact Name: Eugenia Chow  
Contact Tel: (415) 972-3160  
Contact Title: Site Assessment Manager (SAM)

Contact Name: Carl Brickner  
Contact Tel: (415) 972-3814  
Contact Title: Site Assessment Manager (SAM)

Site Description: Not reported

CERCLIS Assessment History:

Action: DISCOVERY  
Date Started: Not reported  
Date Completed: 11/16/01  
Priority Level: Not reported

Action: COMBINED PRELIMINARY ASSESSMENT/SITE INSPECTION  
Date Started: 11/30/01  
Date Completed: 09/16/05  
Priority Level: Higher priority for further assessment

RCRA-SQG:

Date form received by agency: 10/29/1993  
Facility name: KEKAHA SUGAR CO LTD  
Facility address: 8315 KEKAHA RD

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KEKAHA SUGAR CO LTD (Continued)**

**1000146368**

EPA ID: KEKAHA, HI 96752  
HID000875203  
Mailing address: PO BOX 549  
KEKAHA, HI 96752  
Contact: ROBERT MATSUDA  
Contact address: 8315 KEKAHA RD  
KEKAHA, HI 96752  
Contact country: US  
Contact telephone: (808) 337-1461  
Contact email: Not reported  
EPA Region: 09  
Land type: Facility is not located on Indian land. Additional information is not known.  
Classification: Small Small Quantity Generator  
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

**Owner/Operator Summary:**

Owner/operator name: KEKAHA SUGAR CO LTD  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999  
Owner/operator country: Not reported  
Owner/operator telephone: (415) 555-1212  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999  
Owner/operator country: Not reported  
Owner/operator telephone: (415) 555-1212  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

**Handler Activities Summary:**

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): Unknown  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KEKAHA SUGAR CO LTD (Continued)**

**1000146368**

Off-site waste receiver: Verified to be non-commercial

Facility Has Received Notices of Violations:

Regulation violated: S - 262.10-12.A  
Area of violation: Generators - General  
Date violation determined: 02/25/2000  
Date achieved compliance: 06/02/2000  
Violation lead agency: State  
Enforcement action: INITIAL 3008(A) COMPLIANCE  
Enforcement action date: 05/09/2000  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: 67848  
Final penalty amount: 67848  
Paid penalty amount: Not reported

Regulation violated: S - 262.30-34.C  
Area of violation: Generators - General  
Date violation determined: 02/25/2000  
Date achieved compliance: 06/02/2000  
Violation lead agency: State  
Enforcement action: INITIAL 3008(A) COMPLIANCE  
Enforcement action date: 05/09/2000  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: 67848  
Final penalty amount: 67848  
Paid penalty amount: Not reported

Regulation violated: S - 270  
Area of violation: TSD - General  
Date violation determined: 02/25/2000  
Date achieved compliance: 06/02/2000  
Violation lead agency: State  
Enforcement action: INITIAL 3008(A) COMPLIANCE  
Enforcement action date: 05/09/2000  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: 67848  
Final penalty amount: 67848  
Paid penalty amount: Not reported

Regulation violated: S - 264.170-177.I  
Area of violation: TSD - General  
Date violation determined: 02/25/2000  
Date achieved compliance: 06/02/2000  
Violation lead agency: State  
Enforcement action: INITIAL 3008(A) COMPLIANCE  
Enforcement action date: 05/09/2000  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: 67848  
Final penalty amount: 67848

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KEKAHA SUGAR CO LTD (Continued)**

**1000146368**

Paid penalty amount: Not reported

Regulation violated: S - 279.20-24  
Area of violation: Used Oil - Generators  
Date violation determined: 02/25/2000  
Date achieved compliance: 06/02/2000  
Violation lead agency: State  
Enforcement action: INITIAL 3008(A) COMPLIANCE  
Enforcement action date: 05/09/2000  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: 67848  
Final penalty amount: 67848  
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 06/02/2000  
Evaluation: NOT A SIGNIFICANT NON-COMPLIER  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 05/19/2000  
Evaluation: SIGNIFICANT NON-COMPLIER  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 10/19/1999  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - General  
Date achieved compliance: 06/02/2000  
Evaluation lead agency: State

Evaluation date: 10/19/1999  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 06/02/2000  
Evaluation lead agency: State

Evaluation date: 10/19/1999  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Used Oil - Generators  
Date achieved compliance: 06/02/2000  
Evaluation lead agency: State

**FINDS:**

Registry ID: 110001322827

**Environmental Interest/Information System**

HI-UST (Hawaii - Underground Storage Tank). Hawaii Underground Storage Tank Program regulates underground storage tanks which store petroleum or hazardous substances and offers documents and data products for downloading.

**KEKAHA SUGAR CO LTD (Continued)**

**1000146368**

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

Hawaii Hazard Evaluation and Emergency Response (HEER-FRS) system maintains basic information for facility/sites of interest to state of Hawaii, Department of Health, Hazard Evaluation and Emergency Response. It is used to index sites for hardcopy file retrieval and to present limited site status information. The environmental interests included are: release assessments, TRI reporters, EPCRA filers, RMP reporters and long term types of site investigations such as environmental cleanup study areas, state cleanup sites, Superfund NPL sites, voluntary clean up programs and Brownfields Pilot/Grants, properties, sites and targeted assessments.

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

The HI-ECS (Hawaii Environmental Compliance Program) is the Hawaii state regulatory program relating to environmental compliance and hazardous materials that ensures that program areas and facilities are in compliance with environmental regulations

US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

CERCLIS (Comprehensive Environmental Response, Compensation, and Liability Information System) is the Superfund database that is used to support management in all phases of the Superfund program. The system contains information on all aspects of hazardous waste sites, including an inventory of sites, planned and actual site activities, and financial information.

PCS (Permit Compliance System) is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KEKAHA SUGAR CO LTD (Continued)**

**1000146368**

permit, compliance, and enforcement status of NPDES facilities.

**8**  
**NW**  
**1/8-1/4**  
**0.203 mi.**  
**1071 ft.**

**KEKAHA CENTRAL OFFICE**  
**8266-A KEKAHA RD**  
**KEKAHA, HI 96752**

**UST U003222414**  
**N/A**

**Relative:**  
**Higher**

UST:

**Actual:**  
**9 ft.**

Facility ID: 9-700605  
Owner: Hawaiian Telcom  
Owner Address: P.O. Box 2200  
Ownder City,St,Zip: Kekaha, 96752 96752

Tank ID: M-1  
Date Installed: 6/1/1994  
**Tank Status: Currently In Use**  
Date Closed: Not reported  
Tank Capacity: 600  
Substance: Diesel

Tank ID: R-M-2  
Date Installed: 5/7/1972  
**Tank Status: Permanently Out of Use**  
Date Closed: 4/28/1994  
Tank Capacity: 300  
Substance: Diesel

## ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
KEKAHA	S106818264	KAUAI TEST FACILITY	1 DOE TRL	96752	SHWS, SPILLS
KEKAHA	1009797171	KEKAHA BEACH ABANDONED DRUM	KAUMUALII HWY	96752	FINDS
KEKAHA	S106818379	KEKAHA BEACH ABANDONED DRUM	KAUMUALII HWY	96752	SPILLS
KEKAHA	1006819198	KEKAHA LANDFILL	6900 KAUMUALII HWY	96752	SHWS, SPILLS
KEKAHA	1011306737	KEKAHA LANDFILL / PHASE II	6900 KAUMUALII HWY	96752	FINDS
KEKAHA	1006821024		KEKAHA RD	96752	FINDS, SHWS, SPILLS
KEKAHA	U003155323	AKITA ENTERPRISES, LTD - KEKAHA	PUEO ST	96752	UST
KEKAHA	1010426705	PIONEER HI-BRED INTERNATIONAL, INC	STREET	96752	FINDS
KEKAHA	1008919506	KEKAHA RESIDENCE LOTS, UNIT 4	VICINITY OF KAUMUALII HWY	96752	FINDS
KEKAHA	S110061620	KEKAHA SUGAR CO, LTD - KEKAHA WOOD	WAIAWA VALLEY	96752	SHWS, ENG CONTROLS
KEKAHA	1007490850		WIAWA VALLEY	96752	CERCLIS
WAIMEA	1007989528		I 385 KAUMUALII HWY	96796	RCRA-CESQG
WAIMEA	S106819068	MEADOW GOLD DAIRIES, INC- WAIMEA	9250 KAUMUALII HWY	96796	SHWS
WAIMEA	1005415824		9862 KAUMUALII HWY	96796	RCRA-SQG, FINDS
WAIMEA	1006819235		KOKEE RD	96796	FINDS, SHWS

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Number of Days to Update:** Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

## STANDARD ENVIRONMENTAL RECORDS

### ***Federal NPL site list***

#### **NPL: National Priority List**

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 03/31/2010	Source: EPA
Date Data Arrived at EDR: 04/02/2010	Telephone: N/A
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 07/14/2010
Number of Days to Update: 10	Next Scheduled EDR Contact: 10/25/2010
	Data Release Frequency: Quarterly

#### **NPL Site Boundaries**

##### **Sources:**

EPA's Environmental Photographic Interpretation Center (EPIC)  
Telephone: 202-564-7333

EPA Region 1  
Telephone 617-918-1143

EPA Region 6  
Telephone: 214-655-6659

EPA Region 3  
Telephone 215-814-5418

EPA Region 7  
Telephone: 913-551-7247

EPA Region 4  
Telephone 404-562-8033

EPA Region 8  
Telephone: 303-312-6774

EPA Region 5  
Telephone 312-886-6686

EPA Region 9  
Telephone: 415-947-4246

EPA Region 10  
Telephone 206-553-8665

#### **Proposed NPL: Proposed National Priority List Sites**

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 03/31/2010	Source: EPA
Date Data Arrived at EDR: 04/02/2010	Telephone: N/A
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 07/14/2010
Number of Days to Update: 10	Next Scheduled EDR Contact: 10/25/2010
	Data Release Frequency: Quarterly

#### **NPL LIENS: Federal Superfund Liens**

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 05/17/2010
Number of Days to Update: 56	Next Scheduled EDR Contact: 08/30/2010
	Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***Federal Delisted NPL site list***

### DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 03/31/2010	Source: EPA
Date Data Arrived at EDR: 04/02/2010	Telephone: N/A
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 07/14/2010
Number of Days to Update: 10	Next Scheduled EDR Contact: 10/25/2010
	Data Release Frequency: Quarterly

## ***Federal CERCLIS list***

### CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 01/29/2010	Source: EPA
Date Data Arrived at EDR: 02/09/2010	Telephone: 703-412-9810
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 07/12/2010
Number of Days to Update: 62	Next Scheduled EDR Contact: 10/11/2010
	Data Release Frequency: Quarterly

### FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA's Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 06/23/2009	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/15/2010	Telephone: 703-603-8704
Date Made Active in Reports: 02/10/2010	Last EDR Contact: 07/21/2010
Number of Days to Update: 26	Next Scheduled EDR Contact: 10/25/2010
	Data Release Frequency: Varies

## ***Federal CERCLIS NFRAP site List***

### CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 06/23/2009	Source: EPA
Date Data Arrived at EDR: 09/02/2009	Telephone: 703-412-9810
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 07/12/2010
Number of Days to Update: 19	Next Scheduled EDR Contact: 09/13/2010
	Data Release Frequency: Quarterly

## ***Federal RCRA CORRACTS facilities list***

### CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/25/2010  
Date Data Arrived at EDR: 03/31/2010  
Date Made Active in Reports: 05/27/2010  
Number of Days to Update: 57

Source: EPA  
Telephone: 800-424-9346  
Last EDR Contact: 05/17/2010  
Next Scheduled EDR Contact: 08/30/2010  
Data Release Frequency: Quarterly

## ***Federal RCRA non-CORRACTS TSD facilities list***

### **RCRA-TSDF: RCRA - Treatment, Storage and Disposal**

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 02/17/2010  
Date Data Arrived at EDR: 02/19/2010  
Date Made Active in Reports: 05/17/2010  
Number of Days to Update: 87

Source: Environmental Protection Agency  
Telephone: (415) 495-8895  
Last EDR Contact: 07/09/2010  
Next Scheduled EDR Contact: 10/18/2010  
Data Release Frequency: Quarterly

## ***Federal RCRA generators list***

### **RCRA-LQG: RCRA - Large Quantity Generators**

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 02/17/2010  
Date Data Arrived at EDR: 02/19/2010  
Date Made Active in Reports: 05/17/2010  
Number of Days to Update: 87

Source: Environmental Protection Agency  
Telephone: (415) 495-8895  
Last EDR Contact: 07/09/2010  
Next Scheduled EDR Contact: 10/18/2010  
Data Release Frequency: Quarterly

### **RCRA-SQG: RCRA - Small Quantity Generators**

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 02/17/2010  
Date Data Arrived at EDR: 02/19/2010  
Date Made Active in Reports: 05/17/2010  
Number of Days to Update: 87

Source: Environmental Protection Agency  
Telephone: (415) 495-8895  
Last EDR Contact: 07/09/2010  
Next Scheduled EDR Contact: 10/18/2010  
Data Release Frequency: Quarterly

### **RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators**

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 02/17/2010  
Date Data Arrived at EDR: 02/19/2010  
Date Made Active in Reports: 05/17/2010  
Number of Days to Update: 87

Source: Environmental Protection Agency  
Telephone: (415) 495-8895  
Last EDR Contact: 07/09/2010  
Next Scheduled EDR Contact: 10/18/2010  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***Federal institutional controls / engineering controls registries***

### US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 12/20/2009	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/20/2010	Telephone: 703-603-0695
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 06/14/2010
Number of Days to Update: 82	Next Scheduled EDR Contact: 09/27/2010
	Data Release Frequency: Varies

### US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 12/20/2009	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/20/2010	Telephone: 703-603-0695
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 06/14/2010
Number of Days to Update: 82	Next Scheduled EDR Contact: 09/27/2010
	Data Release Frequency: Varies

## ***Federal ERNS list***

### ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2009	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 01/22/2010	Telephone: 202-267-2180
Date Made Active in Reports: 02/11/2010	Last EDR Contact: 07/09/2010
Number of Days to Update: 20	Next Scheduled EDR Contact: 10/18/2010
	Data Release Frequency: Annually

## ***State- and tribal - equivalent CERCLIS***

### SHWS: Sites List

Facilities, sites or areas in which the Office of Hazard Evaluation and Emergency Response has an interest, has investigated or may investigate under HRS 128D (includes CERCLIS sites).

Date of Government Version: 12/01/2009	Source: Department of Health
Date Data Arrived at EDR: 12/07/2009	Telephone: 808-586-4249
Date Made Active in Reports: 01/08/2010	Last EDR Contact: 06/11/2010
Number of Days to Update: 32	Next Scheduled EDR Contact: 09/13/2010
	Data Release Frequency: Semi-Annually

## ***State and tribal landfill and/or solid waste disposal site lists***

### SWF/LF: Permitted Landfills in the State of Hawaii

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 04/01/2010	Source: Department of Health
Date Data Arrived at EDR: 04/08/2010	Telephone: 808-586-4245
Date Made Active in Reports: 05/19/2010	Last EDR Contact: 07/08/2010
Number of Days to Update: 41	Next Scheduled EDR Contact: 10/18/2010
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***State and tribal leaking storage tank lists***

### **LUST: Leaking Underground Storage Tank Database**

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 06/01/2010	Source: Department of Health
Date Data Arrived at EDR: 06/09/2010	Telephone: 808-586-4228
Date Made Active in Reports: 08/04/2010	Last EDR Contact: 06/07/2010
Number of Days to Update: 56	Next Scheduled EDR Contact: 09/20/2010
	Data Release Frequency: Semi-Annually

### **INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land**

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 05/04/2010	Source: EPA Region 10
Date Data Arrived at EDR: 05/05/2010	Telephone: 206-553-2857
Date Made Active in Reports: 05/27/2010	Last EDR Contact: 08/02/2010
Number of Days to Update: 22	Next Scheduled EDR Contact: 11/15/2010
	Data Release Frequency: Quarterly

### **INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land**

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 05/19/2010	Source: EPA Region 4
Date Data Arrived at EDR: 05/21/2010	Telephone: 404-562-8677
Date Made Active in Reports: 08/09/2010	Last EDR Contact: 08/02/2010
Number of Days to Update: 80	Next Scheduled EDR Contact: 11/15/2010
	Data Release Frequency: Semi-Annually

### **INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land**

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 05/24/2010	Source: EPA Region 8
Date Data Arrived at EDR: 05/27/2010	Telephone: 303-312-6271
Date Made Active in Reports: 08/09/2010	Last EDR Contact: 08/02/2010
Number of Days to Update: 74	Next Scheduled EDR Contact: 11/15/2010
	Data Release Frequency: Quarterly

### **INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land**

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 11/04/2009	Source: EPA Region 7
Date Data Arrived at EDR: 05/04/2010	Telephone: 913-551-7003
Date Made Active in Reports: 07/07/2010	Last EDR Contact: 08/02/2010
Number of Days to Update: 64	Next Scheduled EDR Contact: 11/15/2010
	Data Release Frequency: Varies

### **INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land**

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 05/03/2010	Source: EPA Region 6
Date Data Arrived at EDR: 05/05/2010	Telephone: 214-665-6597
Date Made Active in Reports: 05/27/2010	Last EDR Contact: 08/02/2010
Number of Days to Update: 22	Next Scheduled EDR Contact: 11/15/2010
	Data Release Frequency: Varies

### **INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land**

A listing of leaking underground storage tank locations on Indian Land.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/19/2009	Source: EPA Region 1
Date Data Arrived at EDR: 02/19/2009	Telephone: 617-918-1313
Date Made Active in Reports: 03/16/2009	Last EDR Contact: 08/02/2010
Number of Days to Update: 25	Next Scheduled EDR Contact: 11/15/2010
	Data Release Frequency: Varies

## INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 05/27/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/28/2010	Telephone: 415-972-3372
Date Made Active in Reports: 08/09/2010	Last EDR Contact: 08/02/2010
Number of Days to Update: 73	Next Scheduled EDR Contact: 11/15/2010
	Data Release Frequency: Quarterly

### **State and tribal registered storage tank lists**

#### UST: Underground Storage Tank Database

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 06/01/2010	Source: Department of Health
Date Data Arrived at EDR: 06/09/2010	Telephone: 808-586-4228
Date Made Active in Reports: 08/05/2010	Last EDR Contact: 06/07/2010
Number of Days to Update: 57	Next Scheduled EDR Contact: 09/20/2010
	Data Release Frequency: Semi-Annually

#### INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 05/24/2010	Source: EPA Region 8
Date Data Arrived at EDR: 05/27/2010	Telephone: 303-312-6137
Date Made Active in Reports: 08/09/2010	Last EDR Contact: 08/02/2010
Number of Days to Update: 74	Next Scheduled EDR Contact: 11/15/2010
	Data Release Frequency: Quarterly

#### INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/01/2008	Source: EPA Region 7
Date Data Arrived at EDR: 12/30/2008	Telephone: 913-551-7003
Date Made Active in Reports: 03/16/2009	Last EDR Contact: 05/12/2010
Number of Days to Update: 76	Next Scheduled EDR Contact: 08/16/2010
	Data Release Frequency: Varies

#### INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/03/2010	Source: EPA Region 6
Date Data Arrived at EDR: 05/05/2010	Telephone: 214-665-7591
Date Made Active in Reports: 05/27/2010	Last EDR Contact: 08/02/2010
Number of Days to Update: 22	Next Scheduled EDR Contact: 11/15/2010
	Data Release Frequency: Semi-Annually

#### INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/04/2010  
Date Data Arrived at EDR: 05/05/2010  
Date Made Active in Reports: 05/27/2010  
Number of Days to Update: 22

Source: EPA Region 10  
Telephone: 206-553-2857  
Last EDR Contact: 08/02/2010  
Next Scheduled EDR Contact: 11/15/2010  
Data Release Frequency: Quarterly

## INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 05/27/2010  
Date Data Arrived at EDR: 05/28/2010  
Date Made Active in Reports: 08/09/2010  
Number of Days to Update: 73

Source: EPA Region 9  
Telephone: 415-972-3368  
Last EDR Contact: 08/02/2010  
Next Scheduled EDR Contact: 11/15/2010  
Data Release Frequency: Quarterly

## INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 02/11/2010  
Date Data Arrived at EDR: 02/11/2010  
Date Made Active in Reports: 04/12/2010  
Number of Days to Update: 60

Source: EPA Region 5  
Telephone: 312-886-6136  
Last EDR Contact: 08/02/2010  
Next Scheduled EDR Contact: 11/15/2010  
Data Release Frequency: Varies

## INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations).

Date of Government Version: 05/19/2010  
Date Data Arrived at EDR: 05/21/2010  
Date Made Active in Reports: 08/09/2010  
Number of Days to Update: 80

Source: EPA Region 4  
Telephone: 404-562-9424  
Last EDR Contact: 08/02/2010  
Next Scheduled EDR Contact: 11/15/2010  
Data Release Frequency: Semi-Annually

## INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 02/19/2009  
Date Data Arrived at EDR: 02/19/2009  
Date Made Active in Reports: 03/16/2009  
Number of Days to Update: 25

Source: EPA, Region 1  
Telephone: 617-918-1313  
Last EDR Contact: 08/02/2010  
Next Scheduled EDR Contact: 11/15/2010  
Data Release Frequency: Varies

## FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010  
Date Data Arrived at EDR: 02/16/2010  
Date Made Active in Reports: 04/12/2010  
Number of Days to Update: 55

Source: FEMA  
Telephone: 202-646-5797  
Last EDR Contact: 07/19/2010  
Next Scheduled EDR Contact: 11/01/2010  
Data Release Frequency: Varies

## ***State and tribal institutional control / engineering control registries***

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ENG CONTROLS: Engineering Control Sites

A listing of sites with engineering controls in place.

Date of Government Version: 12/01/2009	Source: Department of Health
Date Data Arrived at EDR: 12/07/2009	Telephone: 404-586-4249
Date Made Active in Reports: 01/08/2010	Last EDR Contact: 06/11/2010
Number of Days to Update: 32	Next Scheduled EDR Contact: 09/13/2010
	Data Release Frequency: Varies

## INST CONTROL: Sites with Institutional Controls

Voluntary Remediation Program and Brownfields sites with institutional controls in place.

Date of Government Version: 12/01/2009	Source: Department of Health
Date Data Arrived at EDR: 12/07/2009	Telephone: 808-586-4249
Date Made Active in Reports: 01/08/2010	Last EDR Contact: 06/11/2010
Number of Days to Update: 32	Next Scheduled EDR Contact: 09/13/2010
	Data Release Frequency: Varies

### **State and tribal voluntary cleanup sites**

#### INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 04/20/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

#### INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 04/02/2008	Source: EPA, Region 1
Date Data Arrived at EDR: 04/22/2008	Telephone: 617-918-1102
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 07/08/2010
Number of Days to Update: 27	Next Scheduled EDR Contact: 10/18/2010
	Data Release Frequency: Varies

#### VCP: Voluntary Response Program Sites

Sites participating in the Voluntary Response Program. The purpose of the VRP is to streamline the cleanup process in a way that will encourage prospective developers, lenders, and purchasers to voluntarily cleanup properties.

Date of Government Version: 12/01/2009	Source: Department of Health
Date Data Arrived at EDR: 12/07/2009	Telephone: 808-586-4249
Date Made Active in Reports: 01/08/2010	Last EDR Contact: 06/11/2010
Number of Days to Update: 32	Next Scheduled EDR Contact: 09/13/2010
	Data Release Frequency: Varies

### **State and tribal Brownfields sites**

#### BROWNFIELDS: Brownfields Sites

With certain legal exclusions and additions, the term 'brownfield site' means real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant.

Date of Government Version: 12/01/2009	Source: Department of Health
Date Data Arrived at EDR: 12/07/2009	Telephone: 808-586-4249
Date Made Active in Reports: 01/08/2010	Last EDR Contact: 06/11/2010
Number of Days to Update: 32	Next Scheduled EDR Contact: 09/13/2010
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ADDITIONAL ENVIRONMENTAL RECORDS

### **Local Brownfield lists**

#### US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients--States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 03/02/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/23/2010	Telephone: 202-566-2777
Date Made Active in Reports: 05/17/2010	Last EDR Contact: 06/25/2010
Number of Days to Update: 55	Next Scheduled EDR Contact: 10/11/2010
	Data Release Frequency: Semi-Annually

### **Local Lists of Landfill / Solid Waste Disposal Sites**

#### DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009	Source: EPA, Region 9
Date Data Arrived at EDR: 05/07/2009	Telephone: 415-947-4219
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 07/28/2010
Number of Days to Update: 137	Next Scheduled EDR Contact: 09/20/2010
	Data Release Frequency: Varies

#### ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

#### INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/03/2007	Telephone: 703-308-8245
Date Made Active in Reports: 01/24/2008	Last EDR Contact: 08/09/2010
Number of Days to Update: 52	Next Scheduled EDR Contact: 11/22/2010
	Data Release Frequency: Varies

### **Local Lists of Hazardous waste / Contaminated Sites**

#### US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/19/2009  
Date Data Arrived at EDR: 12/29/2009  
Date Made Active in Reports: 02/10/2010  
Number of Days to Update: 43

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 03/08/2010  
Next Scheduled EDR Contact: 09/20/2010  
Data Release Frequency: Quarterly

## US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007  
Date Data Arrived at EDR: 11/19/2008  
Date Made Active in Reports: 03/30/2009  
Number of Days to Update: 131

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 03/23/2009  
Next Scheduled EDR Contact: 06/22/2009  
Data Release Frequency: No Update Planned

## Local Land Records

### LIENS 2: CERCLA Lien Information

A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 05/06/2010  
Date Data Arrived at EDR: 05/11/2010  
Date Made Active in Reports: 08/09/2010  
Number of Days to Update: 90

Source: Environmental Protection Agency  
Telephone: 202-564-6023  
Last EDR Contact: 08/02/2010  
Next Scheduled EDR Contact: 11/15/2010  
Data Release Frequency: Varies

### LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005  
Date Data Arrived at EDR: 12/11/2006  
Date Made Active in Reports: 01/11/2007  
Number of Days to Update: 31

Source: Department of the Navy  
Telephone: 843-820-7326  
Last EDR Contact: 05/24/2010  
Next Scheduled EDR Contact: 09/06/2010  
Data Release Frequency: Varies

## Records of Emergency Release Reports

### HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 04/06/2010  
Date Data Arrived at EDR: 04/07/2010  
Date Made Active in Reports: 05/27/2010  
Number of Days to Update: 50

Source: U.S. Department of Transportation  
Telephone: 202-366-4555  
Last EDR Contact: 07/09/2010  
Next Scheduled EDR Contact: 10/18/2010  
Data Release Frequency: Annually

### SPILLS: Release Notifications

Releases of hazardous substances to the environment reported to the Office of Hazard Evaluation and Emergency Response since 1988.

Date of Government Version: 03/10/2010  
Date Data Arrived at EDR: 03/16/2010  
Date Made Active in Reports: 04/13/2010  
Number of Days to Update: 28

Source: Department of Health  
Telephone: 808-586-4249  
Last EDR Contact: 06/11/2010  
Next Scheduled EDR Contact: 09/13/2010  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***Other Ascertainable Records***

### **RCRA-NonGen: RCRA - Non Generators**

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 02/17/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/19/2010	Telephone: (415) 495-8895
Date Made Active in Reports: 05/17/2010	Last EDR Contact: 07/09/2010
Number of Days to Update: 87	Next Scheduled EDR Contact: 10/18/2010
	Data Release Frequency: Varies

### **DOT OPS: Incident and Accident Data**

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/12/2010	Source: Department of Transportation, Office of Pipeline Safety
Date Data Arrived at EDR: 02/09/2010	Telephone: 202-366-4595
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 05/12/2010
Number of Days to Update: 62	Next Scheduled EDR Contact: 08/23/2010
	Data Release Frequency: Varies

### **DOD: Department of Defense Sites**

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 11/10/2006	Telephone: 703-692-8801
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 07/22/2010
Number of Days to Update: 62	Next Scheduled EDR Contact: 11/01/2010
	Data Release Frequency: Semi-Annually

### **FUDS: Formerly Used Defense Sites**

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2008	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 09/30/2009	Telephone: 202-528-4285
Date Made Active in Reports: 12/01/2009	Last EDR Contact: 06/16/2010
Number of Days to Update: 62	Next Scheduled EDR Contact: 09/27/2010
	Data Release Frequency: Varies

### **CONSENT: Superfund (CERCLA) Consent Decrees**

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 04/11/2010	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 04/19/2010	Telephone: Varies
Date Made Active in Reports: 05/17/2010	Last EDR Contact: 07/08/2010
Number of Days to Update: 28	Next Scheduled EDR Contact: 10/18/2010
	Data Release Frequency: Varies

### **ROD: Records Of Decision**

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 04/29/2010	Source: EPA
Date Data Arrived at EDR: 05/07/2010	Telephone: 703-416-0223
Date Made Active in Reports: 05/27/2010	Last EDR Contact: 06/16/2010
Number of Days to Update: 20	Next Scheduled EDR Contact: 09/27/2010
	Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 01/05/2009	Source: Department of Energy
Date Data Arrived at EDR: 05/07/2009	Telephone: 505-845-0011
Date Made Active in Reports: 05/08/2009	Last EDR Contact: 06/01/2010
Number of Days to Update: 1	Next Scheduled EDR Contact: 09/13/2010
	Data Release Frequency: Varies

## MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/12/2010	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 03/10/2010	Telephone: 303-231-5959
Date Made Active in Reports: 05/17/2010	Last EDR Contact: 06/09/2010
Number of Days to Update: 68	Next Scheduled EDR Contact: 09/20/2010
	Data Release Frequency: Semi-Annually

## TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2008	Source: EPA
Date Data Arrived at EDR: 01/13/2010	Telephone: 202-566-0250
Date Made Active in Reports: 02/18/2010	Last EDR Contact: 06/04/2010
Number of Days to Update: 36	Next Scheduled EDR Contact: 09/13/2010
	Data Release Frequency: Annually

## TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2002	Source: EPA
Date Data Arrived at EDR: 04/14/2006	Telephone: 202-260-5521
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 07/07/2010
Number of Days to Update: 46	Next Scheduled EDR Contact: 10/11/2010
	Data Release Frequency: Every 4 Years

## FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 06/01/2010
Number of Days to Update: 25	Next Scheduled EDR Contact: 09/13/2010
	Data Release Frequency: Quarterly

## FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 06/01/2010
Number of Days to Update: 25	Next Scheduled EDR Contact: 09/13/2010
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

## HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2008
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

## SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2008	Source: EPA
Date Data Arrived at EDR: 01/06/2010	Telephone: 202-564-4203
Date Made Active in Reports: 02/10/2010	Last EDR Contact: 08/03/2010
Number of Days to Update: 35	Next Scheduled EDR Contact: 11/15/2010
	Data Release Frequency: Annually

## ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 04/24/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/29/2010	Telephone: 202-564-5088
Date Made Active in Reports: 05/17/2010	Last EDR Contact: 06/25/2010
Number of Days to Update: 18	Next Scheduled EDR Contact: 10/11/2010
	Data Release Frequency: Quarterly

## PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 02/01/2010	Source: EPA
Date Data Arrived at EDR: 04/22/2010	Telephone: 202-566-0500
Date Made Active in Reports: 08/09/2010	Last EDR Contact: 07/30/2010
Number of Days to Update: 109	Next Scheduled EDR Contact: 11/01/2010
	Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/18/2010	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 04/06/2010	Telephone: 301-415-7169
Date Made Active in Reports: 05/27/2010	Last EDR Contact: 06/14/2010
Number of Days to Update: 51	Next Scheduled EDR Contact: 09/27/2010
	Data Release Frequency: Quarterly

## RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/13/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/14/2010	Telephone: 202-343-9775
Date Made Active in Reports: 08/09/2010	Last EDR Contact: 07/14/2010
Number of Days to Update: 26	Next Scheduled EDR Contact: 10/25/2010
	Data Release Frequency: Quarterly

## FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 04/14/2010	Source: EPA
Date Data Arrived at EDR: 04/16/2010	Telephone: (415) 947-8000
Date Made Active in Reports: 05/27/2010	Last EDR Contact: 07/07/2010
Number of Days to Update: 41	Next Scheduled EDR Contact: 09/27/2010
	Data Release Frequency: Quarterly

## RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

## BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2007	Source: EPA/NTIS
Date Data Arrived at EDR: 02/25/2010	Telephone: 800-424-9346
Date Made Active in Reports: 05/12/2010	Last EDR Contact: 05/25/2010
Number of Days to Update: 76	Next Scheduled EDR Contact: 09/06/2010
	Data Release Frequency: Biennially

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## UIC: Underground Injection Wells Listing

A listing of underground injection well locations.

Date of Government Version: 03/23/2010	Source: Department of Health
Date Data Arrived at EDR: 03/31/2010	Telephone: 808-586-4258
Date Made Active in Reports: 04/13/2010	Last EDR Contact: 06/07/2010
Number of Days to Update: 13	Next Scheduled EDR Contact: 09/20/2010
	Data Release Frequency: Varies

## DRYCLEANERS: Permitted Drycleaner Facility Listing

A listing of permitted drycleaner facilities in the state.

Date of Government Version: 06/30/2010	Source: Department of Health
Date Data Arrived at EDR: 07/13/2010	Telephone: 808-586-4200
Date Made Active in Reports: 08/04/2010	Last EDR Contact: 07/12/2010
Number of Days to Update: 22	Next Scheduled EDR Contact: 10/25/2010
	Data Release Frequency: Varies

## AIRS: List of Permitted Facilities

A listing of permitted facilities in the state.

Date of Government Version: 06/30/2010	Source: Department of Health
Date Data Arrived at EDR: 07/13/2010	Telephone: 808-586-4200
Date Made Active in Reports: 08/04/2010	Last EDR Contact: 07/12/2010
Number of Days to Update: 22	Next Scheduled EDR Contact: 10/25/2010
	Data Release Frequency: Varies

## INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 12/08/2006	Telephone: 202-208-3710
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 07/22/2010
Number of Days to Update: 34	Next Scheduled EDR Contact: 11/01/2010
	Data Release Frequency: Semi-Annually

## SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 02/10/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/11/2010	Telephone: 615-532-8599
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 08/09/2010
Number of Days to Update: 60	Next Scheduled EDR Contact: 11/08/2010
	Data Release Frequency: Varies

## PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 01/01/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/18/2009	Telephone: 202-566-0517
Date Made Active in Reports: 05/29/2009	Last EDR Contact: 05/14/2010
Number of Days to Update: 100	Next Scheduled EDR Contact: 08/16/2010
	Data Release Frequency: Varies

## COAL ASH DOE: Sleam-Electric Plan Operation Data

A listing of power plants that store ash in surface ponds.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 08/07/2009  
Date Made Active in Reports: 10/22/2009  
Number of Days to Update: 76

Source: Department of Energy  
Telephone: 202-586-8719  
Last EDR Contact: 07/21/2010  
Next Scheduled EDR Contact: 11/01/2010  
Data Release Frequency: Varies

## COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 11/09/2009  
Date Data Arrived at EDR: 12/18/2009  
Date Made Active in Reports: 02/10/2010  
Number of Days to Update: 54

Source: Environmental Protection Agency  
Telephone: N/A  
Last EDR Contact: 06/14/2010  
Next Scheduled EDR Contact: 09/27/2010  
Data Release Frequency: Varies

## FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 02/06/2006  
Date Made Active in Reports: 01/11/2007  
Number of Days to Update: 339

Source: U.S. Geological Survey  
Telephone: 888-275-8747  
Last EDR Contact: 07/22/2010  
Next Scheduled EDR Contact: 11/01/2010  
Data Release Frequency: N/A

## EDR PROPRIETARY RECORDS

### *EDR Proprietary Records*

#### Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

## OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

#### Electric Power Transmission Line Data

Source: Rextag Strategies Corp.  
Telephone: (281) 769-2247

U.S. Electric Transmission and Power Plants Systems Digital GIS Data

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

**Sensitive Receptors:** There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

## AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

## Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

## Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

## Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

## Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

**Flood Zone Data:** This data, available in select counties across the country, was obtained by EDR in 2003 & 2009 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

## Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

## **STREET AND ADDRESS INFORMATION**

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## GEOCHECK<sup>®</sup> - PHYSICAL SETTING SOURCE ADDENDUM

### TARGET PROPERTY ADDRESS

KEKAHA SUGAR MILL  
KAUAI  
KEKAHA, HI 96752

### TARGET PROPERTY COORDINATES

Latitude (North):	21.96790 - 21° 58' 4.4"
Longitude (West):	159.7106 - 159° 42' 38.2"
Universal Tranverse Mercator:	Zone 4
UTM X (Meters):	426632.2
UTM Y (Meters):	2429301.8
Elevation:	6 ft. above sea level

### USGS TOPOGRAPHIC MAP

Target Property Map:	21159-H6 KEKAHA OE S, HI
Most Recent Revision:	Not reported

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

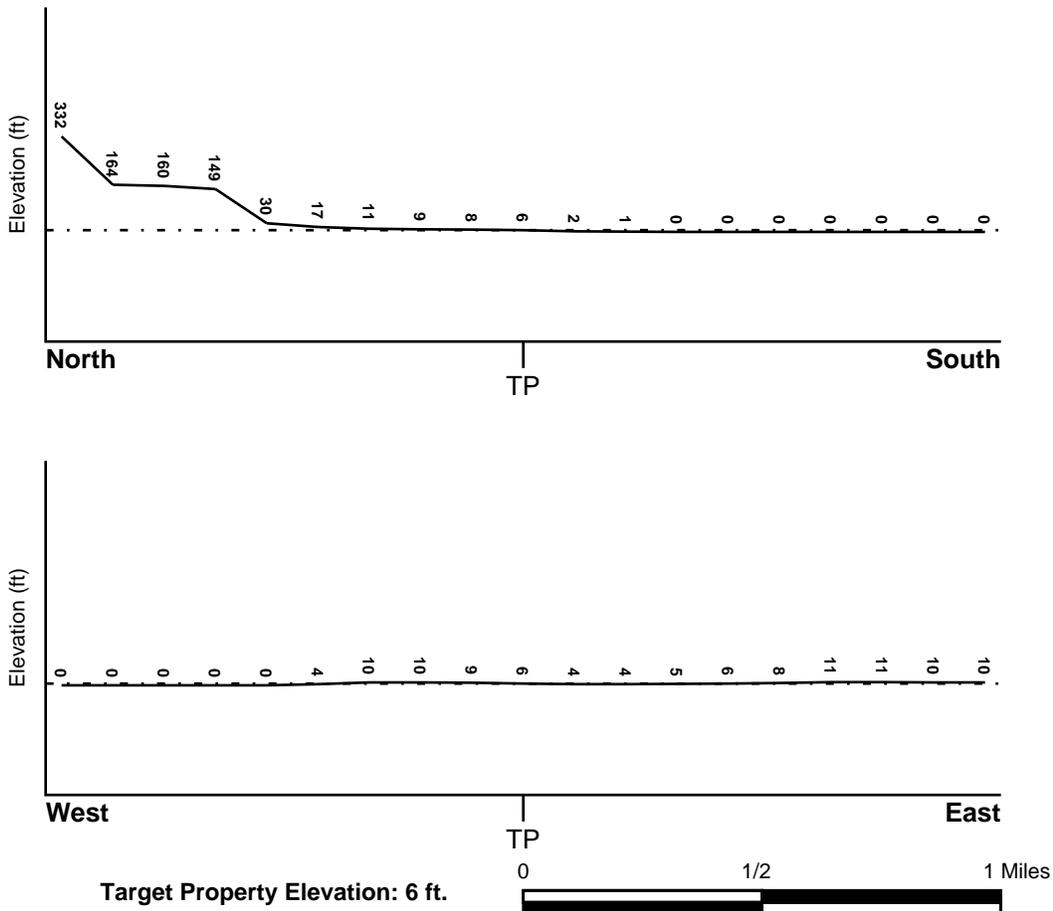
## TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

## TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SE

## SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## **HYDROLOGIC INFORMATION**

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

## **FEMA FLOOD ZONE**

<u>Target Property County</u> KAUAI, HI	<u>FEMA Flood Electronic Data</u> YES - refer to the Overview Map and Detail Map
Flood Plain Panel at Target Property:	150002 - FEMA DFIRM Flood data
Additional Panels in search area:	Not Reported

## **NATIONAL WETLAND INVENTORY**

<u>NWI Quad at Target Property</u> KEKAHA	<u>NWI Electronic Data Coverage</u> YES - refer to the Overview Map and Detail Map
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## **HYDROGEOLOGIC INFORMATION**

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

## **AQUIFLOW®**

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

### GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

#### **ROCK STRATIGRAPHIC UNIT**

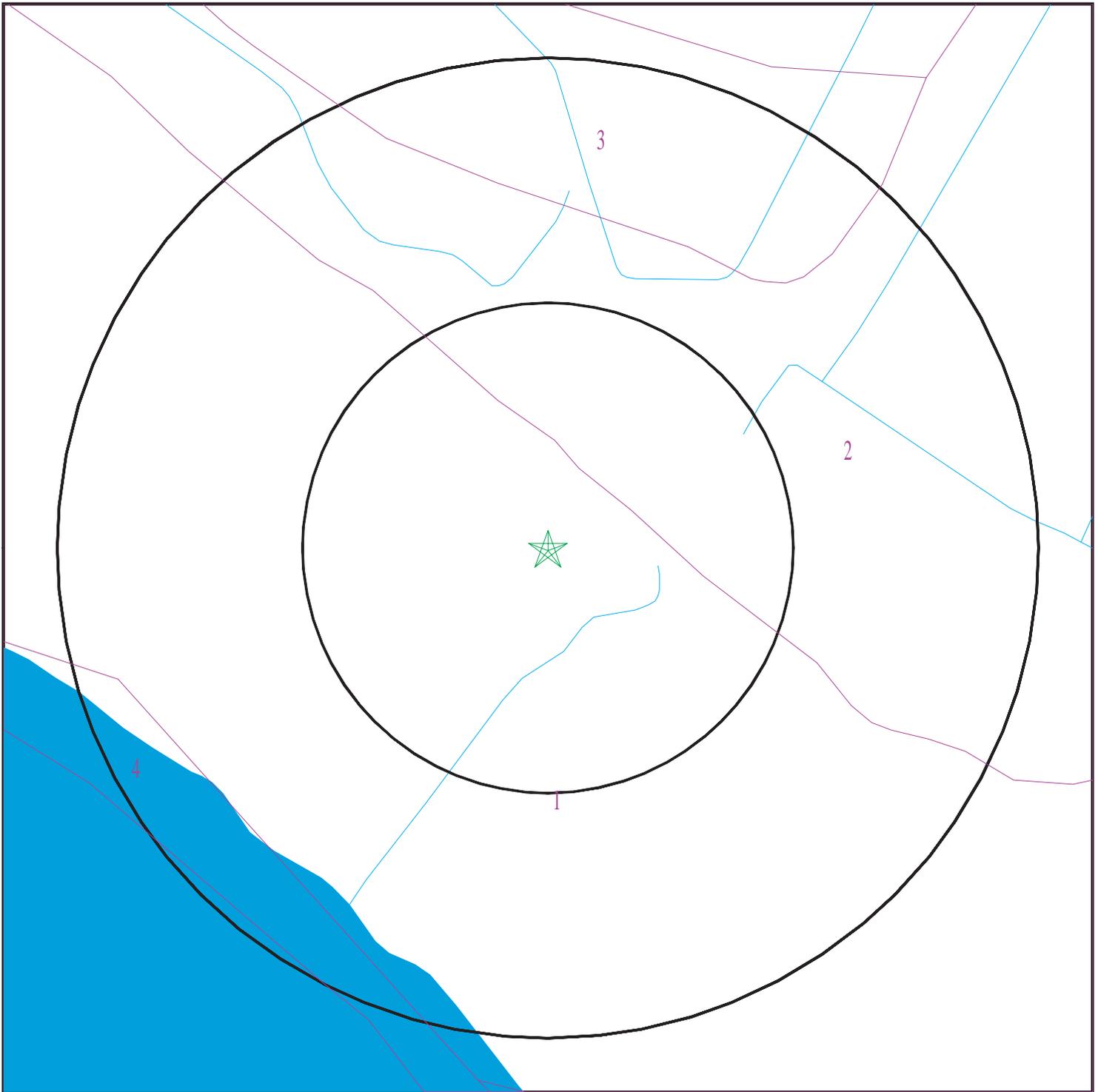
Era: -  
System: -  
Series: -  
Code: N/A (*decoded above as Era, System & Series*)

#### **GEOLOGIC AGE IDENTIFICATION**

Category: -

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

# SSURGO SOIL MAP - 2837727.2s



- ★ Target Property
- SSURGO Soil
- Water



SITE NAME: Kekaha Sugar Mill  
ADDRESS: Kauai  
Kekaha HI 96752  
LAT/LONG: 21.9679 / 159.7106

CLIENT: Weston Solutions, Inc.  
CONTACT: Alex Grubb  
INQUIRY #: 2837727.2s  
DATE: August 09, 2010 7:29 pm

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

### Soil Map ID: 1

Soil Component Name: Jaucas

Soil Surface Texture: loamy fine sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	12 inches	loamy fine sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42.34	Max: 8.4 Min: 6.6
2	12 inches	59 inches	sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42.34	Max: 8.4 Min: 6.6

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### Soil Map ID: 2

Soil Component Name: Fill land

Soil Surface Texture: silty clay

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 76 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 1.41 Min: 0.42	Max: Min:
2	11 inches	29 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 1.41 Min: 0.42	Max: Min:
3	29 inches	40 inches	bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 1.41 Min: 0.42	Max: Min:

### Soil Map ID: 3

Soil Component Name: Nohili

Soil Surface Texture: clay

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Poorly drained

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 69 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	18 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 4 Min: 0.42	Max: 9 Min: 8.5
2	18 inches	33 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 4 Min: 0.42	Max: 9 Min: 8.5
3	33 inches	42 inches	cemented material, clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 4 Min: 0.42	Max: 9 Min: 8.5
4	42 inches	98 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 4 Min: 0.42	Max: 9 Min: 8.5

### Soil Map ID: 4

Soil Component Name: Beaches

Soil Surface Texture: coarse sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Excessively drained

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 92 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	coarse sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 6.1
2	5 inches	59 inches	coarse sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 6.1

### LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

### WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

### **FEDERAL USGS WELL INFORMATION**

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

## FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

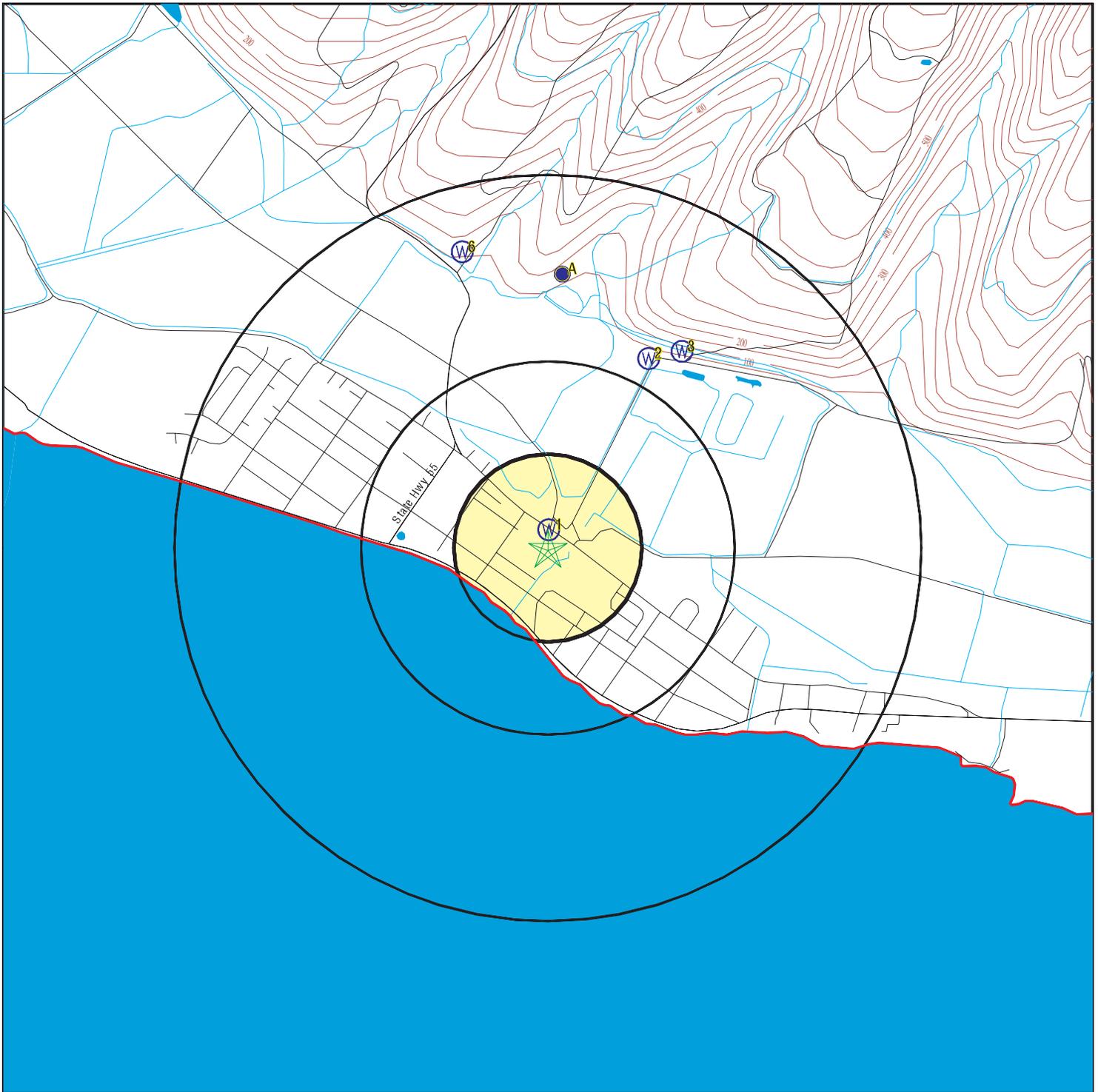
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A4	HI0000418	1/2 - 1 Mile North

Note: PWS System location is not always the same as well location.

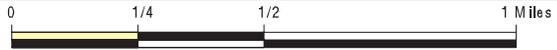
## STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	HI5000000004111	0 - 1/8 Mile North
2	HI5000000004130	1/2 - 1 Mile NNE
3	HI5000000004131	1/2 - 1 Mile NE
A5	HI5000000004139	1/2 - 1 Mile North
6	HI5000000004142	1/2 - 1 Mile NNW

# PHYSICAL SETTING SOURCE MAP - 2837727.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons



- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location



SITE NAME: Kekaha Sugar Mill  
 ADDRESS: Kauai  
 Kekaha HI 96752  
 LAT/LONG: 21.9679 / 159.7106

CLIENT: Weston Solutions, Inc.  
 CONTACT: Alex Grubb  
 INQUIRY #: 2837727.2s  
 DATE: August 09, 2010 7:29 pm

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**1**  
**North**  
**0 - 1/8 Mile**  
**Higher**

**HI WELLS      HI5000000004111**

Wid:	2-5842-001	Island:	2
Well no:	5842-01	Well name:	Kekeha K59
Old name:	Not Reported	Yr drilled:	1930
Driller:	G B PRIMMER	Quad map:	02
Longitude2:	1594248	Latitude27:	215818
Longitude8:	1594238	Latitude83:	215807
Lat83d:	21	Lat83m:	58
Lat83s:	07	Lon83d:	159
Lon83m:	42	Lon83s:	38
Lat83dd:	21.96861		
Lon83dd:	-159.71056		
Long83dd:	-159.71056		
Lat83dd 1:	21.96861		
Gps:	0	Utm:	1
Owner user:	Kekaha Sugar	Old number:	27
Well type:	Percussion Drill	Casing dia:	10
Ground el:	9	Well depth:	490
Solid case:	463	Perf case:	Not Reported
Use:	ABN - Sealed		
Use year:	03		
Init water:	8.3		
Init head:	0		
Init chlor:	11700	Init cl:	11700.00000
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chlor:	Not Reported
Test temp:	Not Reported	Temp unit:	Not Reported
Pump gpm:	2100.00000	Draft mgy:	100
Head feet:	8.3	Max chlor:	Not Reported
Min chlor:	Not Reported	Geology:	TWN
Pump yr:	Not Reported	Draft yr:	56
Head yr:	30	Maxchl:	Not Reported
Maxchl yr:	62	Minchl:	Not Reported
Minchl yr:	Not Reported	Bot hole:	-481
Bot solid:	-454	Bot perf:	Not Reported
Spec capac:	Not Reported	Pump mgd:	3.00
Draft mgd:	0.3	Aquifer:	20301
Tmk:	1-3-011:006	Old aqui:	Not Reported
Aqui code:	20301	Latest hd:	0.00000
Cur head:	Not Reported	Cur cl:	Not Reported
Cur temp:	Not Reported	Wcr:	01/01/1930
Pir:	Not Reported	Surveyor:	Not Reported
T:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Site id:	HI5000000004111

**2**  
**NNE**  
**1/2 - 1 Mile**  
**Higher**

**HI WELLS      HI5000000004130**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wid:	2-5842-004	Island:	2
Well no:	5842-04	Well name:	Kekaha
Old name:	Not Reported	Yr drilled:	Not Reported
Driller:	Not Reported	Quad map:	02
Longitude2:	1594233	Latitude27:	215842
Longitude8:	1594223	Latitude83:	215831
Lat83d:	21	Lat83m:	58
Lat83s:	31	Lon83d:	159
Lon83m:	42	Lon83s:	23
Lat83dd:	21.97528		
Lon83dd:	-159.70639		
Long83dd:	-159.70639		
Lat83dd 1:	21.97528		
Gps:	0	Utm:	1
Owner user:	Kekaha Sugar	Old number:	Not Reported
Well type:	Not Reported	Casing dia:	Not Reported
Ground el:	10	Well depth:	Not Reported
Solid case:	Not Reported	Perf case:	Not Reported
Use:	ABN - Sealed		
Use year:	03		
Init water:	Not Reported		
Init head:	0		
Init chlor:	Not Reported	Init cl:	Not Reported
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chlor:	220
Test temp:	24.0	Temp unit:	C
Pump gpm:	Not Reported	Draft mgy:	Not Reported
Head feet:	Not Reported	Max chlor:	Not Reported
Min chlor:	Not Reported	Geology:	Not Reported
Pump yr:	Not Reported	Draft yr:	Not Reported
Head yr:	Not Reported	Maxchl:	Not Reported
Maxchl yr:	0	Minchl:	Not Reported
Minchl yr:	0	Bot hole:	Not Reported
Bot solid:	Not Reported	Bot perf:	Not Reported
Spec capac:	Not Reported	Pump mgd:	Not Reported
Draft mgd:	Not Reported	Aquifer:	20301
Tmk:	1-2-002:001	Old aqui:	Not Reported
Aqui code:	20301	Latest hd:	Not Reported
Cur head:	Not Reported	Cur cl:	Not Reported
Cur temp:	Not Reported	Wcr:	01/01/1948
Pir:	Not Reported	Surveyor:	Not Reported
T:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Site id:	HI5000000004130

**3**  
**NE**  
**1/2 - 1 Mile**  
**Higher**

**HI WELLS      HI5000000004131**

Wid:	2-5842-003	Island:	2
Well no:	5842-03	Well name:	Huluhulunui Shft
Old name:	Not Reported	Yr drilled:	1948
Driller:	Not Reported	Quad map:	02
Longitude2:	1594228	Latitude27:	215843
Longitude8:	1594218	Latitude83:	215832
Lat83d:	21	Lat83m:	58
Lat83s:	32	Lon83d:	159
Lon83m:	42	Lon83s:	18
Lat83dd:	21.97556		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Lon83dd:	-159.705	Utm:	1
Long83dd:	-159.705	Old number:	Not Reported
Lat83dd 1:	21.97556	Casing dia:	156
Gps:	0	Well depth:	48
Owner user:	State DLNR	Perf case:	Not Reported
Well type:	Shaft		
Ground el:	45		
Solid case:	Not Reported		
Use:	IND - Industrial		
Use year:	63		
Init water:	8.9		
Init head:	8.9		
Init chlor:	640	Init cl:	640.00000
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chlor:	155
Test temp:	24.8	Temp unit:	C
Pump gpm:	10400.00000	Draft mgy:	4249
Head feet:	8.9	Max chlor:	710
Min chlor:	180	Geology:	TWN
Pump yr:	63	Draft yr:	76
Head yr:	50	Maxchl:	1/1/1955
Maxchl yr:	55	Minchl:	1/1/1960
Minchl yr:	55	Bot hole:	-3
Bot solid:	Not Reported	Bot perf:	Not Reported
Spec capac:	Not Reported	Pump mgd:	14.86
Draft mgd:	11.6	Aquifer:	20301
Trnk:	1-2-002:001	Old aqui:	Not Reported
Aqui code:	20301	Latest hd:	8.90000
Cur head:	Not Reported	Cur cl:	Not Reported
Cur temp:	Not Reported	Wcr:	01/01/1948
Pir:	Not Reported	Surveyor:	Not Reported
T:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Site id:	HI5000000004131

**A4  
North  
1/2 - 1 Mile  
Higher**

**FRDS PWS    HI0000418**

Pwsid:	HI0000418	Epa region:	09
State:	HI	County:	Kauai
Pws name:	KEKAHA DIST		
Population Served:	500	Pwssvconn:	67
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Closed	Owner type:	Local_Govt
Facility id:	437		
Facility name:	KEKAHA SHAFT		
Facility type:	Treatment_plant	Treatment process:	gaseous chlorination, post
Treatment objective:	disinfection		
Contact name:	Not Reported		
Original name:	Not Reported		
Contact phone:	Not Reported	Contact address1:	Not Reported
Contact address2:	Not Reported		
Contact city:	Not Reported		
Contact zip:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pwsid:	HI0000418	Epa region:	09
State:	HI	County:	Kauai
Pws name:	KEKAHA DIST		
Population Served:	500	Pwssvconn:	67
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Closed	Owner type:	Local_Govt
Facility id:	595		
Facility name:	KEKAHA SHAFT 5842-02		
Facility type:	Well	Treatment process:	gaseous chlorination, post
Treatment objective:	disinfection		
Contact name:	Not Reported		
Original name:	Not Reported		
Contact phone:	Not Reported	Contact address1:	Not Reported
Contact address2:	Not Reported		
Contact city:	Not Reported		
Contact zip:	Not Reported		

PWS ID:	HI0000418		
Date Initiated:	Not Reported	Date Deactivated:	Not Reported
PWS Name:	KEKAHA SUGAR COMPANY 8315 KEKAHA ROAD KEKAHA, KAUAI, HI 96752		

Addressee / Facility: System Owner/Responsible Party  
MR. OWEN MOE, PRESIDENT  
KEKAHA SUGAR COMPANY  
P.O. BOX 549  
KEKAHA, HI 96752

Facility Latitude:	21 58 54.0000	Facility Longitude:	159 42 46.0000
City Served:	KEKAHA		
Treatment Class:	Treated	Population:	500

Violations information not reported.

### ENFORCEMENT INFORMATION:

System Name:	KEKAHA SUGAR COMPANY		
Violation Type:	MCL, Monthly (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	1998-06-01 - 1998-06-30		
Violation ID:	98000013		
Enforcement Date:	Not Reported	Enf. Action:	Not Reported

System Name:	KEKAHA SUGAR COMPANY		
Violation Type:	MCL, Acute (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	1998-06-01 - 1998-06-30		
Violation ID:	98000014		
Enforcement Date:	Not Reported	Enf. Action:	Not Reported

**A5**  
**North**  
**1/2 - 1 Mile**  
**Higher**

**HI WELLS      HI5000000004139**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wid:	2-5842-002	Island:	2
Well no:	5842-02	Well name:	Kekaha Shaft
Old name:	Not Reported	Yr drilled:	1932
Driller:	Not Reported	Quad map:	02
Longitude2:	1594246	Latitude27:	215854
Longitude8:	1594236	Latitude83:	215843
Lat83d:	21	Lat83m:	58
Lat83s:	43	Lon83d:	159
Lon83m:	42	Lon83s:	36
Lat83dd:	21.97861		
Lon83dd:	-159.71		
Long83dd:	-159.71		
Lat83dd 1:	21.97861		
Gps:	1	Utm:	0
Owner user:	State DLNR	Old number:	Not Reported
Well type:	Shaft	Casing dia:	72
Ground el:	60	Well depth:	57
Solid case:	Not Reported	Perf case:	Not Reported
Use:	MUN - State		
Use year:	76		
Init water:	Not Reported		
Init head:	0		
Init chlor:	Not Reported	Init cl:	Not Reported
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chlor:	129
Test temp:	24.5	Temp unit:	C
Pump gpm:	1000.00000	Draft mgy:	170
Head feet:	Not Reported	Max chlor:	135
Min chlor:	96	Geology:	TWN
Pump yr:	72	Draft yr:	76
Head yr:	Not Reported	Maxchl:	1/1/1973
Maxchl yr:	73	Minchl:	1/1/1976
Minchl yr:	73	Bot hole:	3
Bot solid:	Not Reported	Bot perf:	Not Reported
Spec capac:	Not Reported	Pump mgd:	1.43
Draft mgd:	0.5	Aquifer:	20301
Tmk:	1-2-002:001	Old aqui:	Not Reported
Aqui code:	20301	Latest hd:	Not Reported
Cur head:	Not Reported	Cur cl:	Not Reported
Cur temp:	Not Reported	Wcr:	01/01/1932
Pir:	Not Reported	Surveyor:	Not Reported
T:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Site id:	HI5000000004139

**6**  
**NNW**  
**1/2 - 1 Mile**  
**Higher**

**HI WELLS      HI5000000004142**

Wid:	2-5843-001	Island:	2
Well no:	5843-01	Well name:	Kekaha Shaft 12
Old name:	Not Reported	Yr drilled:	1948
Driller:	Not Reported	Quad map:	02
Longitude2:	1594301	Latitude27:	215857
Longitude8:	1594251	Latitude83:	215846
Lat83d:	21	Lat83m:	58
Lat83s:	46	Lon83d:	159
Lon83m:	42	Lon83s:	51
Lat83dd:	21.97944		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Lon83dd:	-159.71417	Utm:	0
Long83dd:	-159.71417	Old number:	Not Reported
Lat83dd 1:	21.97944	Casing dia:	Not Reported
Gps:	1	Well depth:	53
Owner user:	Kauai DWS	Perf case:	Not Reported
Well type:	Shaft		
Ground el:	57		
Solid case:	Not Reported		
Use:	MUN - County		
Use year:	74		
Init water:	11.0		
Init head:	11		
Init chlor:	70	Init cl:	70.00000
Test date:	Not Reported	Test gpm:	2000
Test ddown:	0.4	Test chlor:	130
Test temp:	24.0	Temp unit:	C
Pump gpm:	300.00000	Draft mgy:	16
Head feet:	8.2	Max chlor:	149
Min chlor:	58	Geology:	TWN
Pump yr:	Not Reported	Draft yr:	76
Head yr:	Not Reported	Maxchl:	1/1/1976
Maxchl yr:	76	Minchl:	1/1/1976
Minchl yr:	76	Bot hole:	4
Bot solid:	Not Reported	Bot perf:	Not Reported
Spec capac:	5000	Pump mgd:	.43
Draft mgd:	0.0	Aquifer:	20301
Tmk:	1-2-002:003	Old aqui:	Not Reported
Aqui code:	20301	Latest hd:	8.20000
Cur head:	Not Reported	Cur cl:	Not Reported
Cur temp:	Not Reported	Wcr:	01/01/1948
Pir:	#####	Surveyor:	Not Reported
T:	Not Reported	Pump elev:	Not Reported
Pump depth:	Not Reported	Site id:	HI5000000004142

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

## AREA RADON INFORMATION

Federal EPA Radon Zone for KAUAI County: 3

- Note: Zone 1 indoor average level > 4 pCi/L.  
 : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.  
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 96752

Number of sites tested: 4

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.325 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

### USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

### Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

## HYDROLOGIC INFORMATION

**Flood Zone Data:** This data, available in select counties across the country, was obtained by EDR in 2003 & 2009 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

## HYDROGEOLOGIC INFORMATION

### AQUIFLOW<sup>R</sup> Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

## GEOLOGIC INFORMATION

### Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

### STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

### SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## LOCAL / REGIONAL WATER AGENCY RECORDS

### FEDERAL WATER WELLS

#### PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

#### PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

#### USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

### STATE RECORDS

#### Well Index Database

Source: Department of Land and Natural Resources

Telephone: 808-587-0214

CWRM maintains a Well Index Database to track specific information pertaining to the construction and installation of production wells in Hawaii

## OTHER STATE DATABASE INFORMATION

### RADON

#### Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

#### EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

### OTHER

#### Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

#### Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

## PHYSICAL SETTING SOURCE RECORDS SEARCHED

### STREET AND ADDRESS INFORMATION

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## **APPENDIX H**

### **FORMER HERBICIDE MIXING AREA FIELD SAMPLING EVENT PHOTOGRAPHS**

**Photo Documentation  
Kekaha Sugar Mill FHMA Sampling**



**Photo 1 – Layout of FHMA-01**



**Photo 2 – Random sampling points within FHMA-01**



**Photo 3 – Northern end of FHMA-02 in front of carpenter shop**



**Photo 4 – Sample collection method in the FHMA DU's**



**Photo 5 – Sample core collection point**



**Photo 6 – MIS Sample Example (FHMA-03)**



**Photo 7 – Western end of FHMA-03 looking east**



**Photo 8 – Sample being collected from the western end of FHMA-03**



**Photo 9 – Laying out FHMA-04**



**Photo 10 – Northern end of FHMA-04 looking east toward FHMA-03**



**Photo 11 – Southern end of FHMA-04 looking north**



**Photo 12 – Northern end of FHMA-05 looking southeast toward FHMA-06**



**Photo 13 – Southern end of FHMA-05 looking northwest toward FHMA-04**



**Photo 14 – Metal piping located in FHMA-05**



**Photo 15 – Eastern end of FHMA-06 looking northwest toward FHMA-05**



**Photo 16 – Western end of FHMA-06 looking southeast toward FHMA-01**

**APPENDIX I**

**MILL DITCH AREA FIELD SAMPLING EVENT  
PHOTOGRAPHS**

**Photo Documentation**  
**Kekaha Sugar Mill MDA Sediment Sampling**



**Photo 1 – Sediment sampling device**



**Photo 2 – Sediment sample collection in the southern part of MDA-10**



**Photo 3 – Sample extraction from device**



**Photo 4 – MIS sediment samples collected from MDA-10**



**Photo 5 – Northern part of MDA-10 looking south (taken from Elepaio St)**



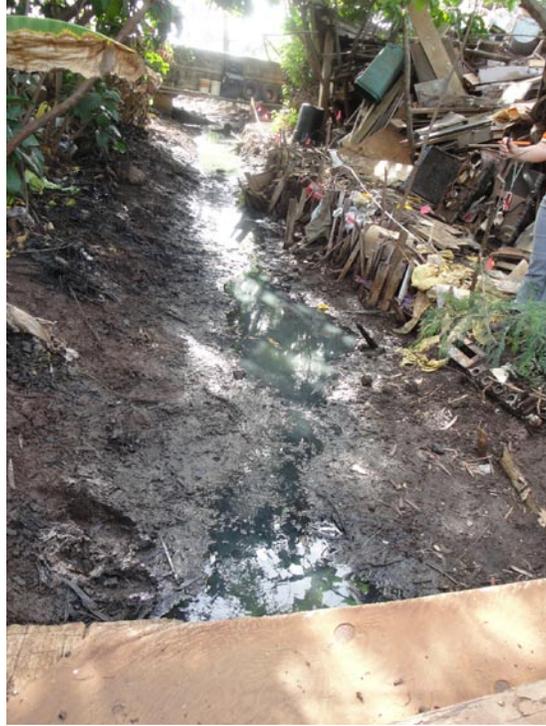
**Photo 6 – Southern part of MDA-09 looking north (taken from Elepaio St)**



**Photo 7 – Southern part of MDA-09 looking under the Elepaio St Bridge toward MDA-10**



**Photo 8 – MDA-09 sampling locations being measured and flagged**



**Photo 9 – Excessive material and trash storage of residents along DU MDA-09**



**Photo 10 – Limited access to the northern end of MDA-09 due to thick vegetation and dangerous sampling conditions**



**Photo 11 – Northern most section of MDA-09**



**Photo 12 – Steep banks and heavy vegetation along the eastern banks of MDA-08**



**Photo 13 – Sampling along the eastern bank of MDA-08**



**Photo 14 – Bridge with a flow control gate at the northern end of MDA-08**



**Photo 15 – Flow control gate and culvert that connects the northern end of MDA-08 to MDA-07**



**Photo 16 – Close up on the flow control gate**



**Photo 17 – Southern access point to MDA-07**



**Photo 18 – Elevated southern lookout onto MDA-07 (facing north)**



**Photo 19 – Difficult sampling conditions in MDA-07**



**Photo 20 – MDA-07 after vegetation clearance**



**Photo 21 – Culvert at the southern end of MDA-07 connects MDA-07 and MDA-08**

## **APPENDIX J**

### **LABORATORY REPORT**

# 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: HTL0037

TestAmerica Sample Delivery Group: HTL0037

Client Project/Site: 12767.063.593.1121

Client Project Description: Kekaha Sugar Mill

For:

Weston Solutions, Inc.

Davies Pacific Center - 841 Bishop Street, Suite 2301

Honolulu, HI 96813

Attn: Samantha Leskie



Authorized for release by:

1/11/2011 9:21 AM

Marvin D. Heskett III

Laboratory Director

[marvin.heskett@testamericainc.com](mailto:marvin.heskett@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



Visit us at:

[www.testamericainc.com](http://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: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

## Qualifiers

### GCMS-Semivolatiles

Qualifier	Qualifier Description
H3	Sample was received and analyzed past holding time.
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.
RL1	Reporting limit raised due to sample matrix effects.
RL4	Reporting limit raised due to insufficient sample volume.
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.

### GC Semivolatiles

Qualifier	Qualifier Description
A-01	Analyte found in Blank, but not detected in associated samples.
A-01a	Analyte found in Blank, but not detected in associated samples.
A-01b	Due to the presence of sulfur contamination in the sample a TBA clean up was performed. This clean up reduced the recovery of this analyte as shown by the low recovery in the BS2, see BS1 for non-cleaned recovery.
B	Analyte was detected in the associated Method Blank.
C-06	To reduce matrix interference, the sample extract has undergone TBA (sulfur) clean-up, method 3660B.
H1	Sample analysis performed past the method-specified holding time per client's approval.
H4	Sample was extracted past holding time, but analyzed within analysis 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.
M1	The MS and/or MSD were outside the acceptance limits due to sample matrix interference. 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.
Z1	Surrogate recovery was above acceptance limits.
Z5	Due to sample matrix effects, the surrogate recovery was outside acceptance limits. Secondary surrogate recovery was within the acceptance limits.

### Metals

Qualifier	Qualifier Description
B	Analyte was detected in the associated 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.
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).

## Glossary

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

# Case Narrative

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

**Job ID: HTL0037**

**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

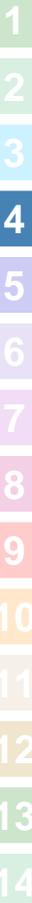
The Cooler temp was 0 C at receipt.

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.

Samples MDA-07-14 were prepared using a wet sieved technique. Percent solids are included for the determination of a comparable dry weight conversion.

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: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
HTL0037-01	FHMA-01	Solid/Soil	11/29/10 12:15	12/03/10 13:05
HTL0037-02	FHMA-02	Solid/Soil	11/29/10 16:30	12/03/10 13:05
HTL0037-03	EB-101129	Water - NonPotable	11/29/10 16:45	12/03/10 13:05
HTL0037-04	FHMA-03	Solid/Soil	11/30/10 08:55	12/03/10 13:05
HTL0037-05	FHMA-04	Solid/Soil	11/30/10 10:30	12/03/10 13:05
HTL0037-06	FHMA-05	Solid/Soil	11/30/10 11:55	12/03/10 13:05
HTL0037-07	FHMA-06	Solid/Soil	11/30/10 15:10	12/03/10 13:05
HTL0037-08	FHMA-11	Solid/Soil	11/30/10 16:40	12/03/10 13:05
HTL0037-09	FHMA-12	Solid/Soil	11/30/10 18:15	12/03/10 13:05
HTL0037-10	EB-101130	Water - NonPotable	11/30/10 16:20	12/03/10 13:05
HTL0037-11	MDA-10	Solid/Soil	12/01/10 11:30	12/03/10 13:05
HTL0037-12	MDA-09	Solid/Soil	12/01/10 15:25	12/03/10 13:05
HTL0037-13	MDA-08	Solid/Soil	12/02/10 09:40	12/03/10 13:05
HTL0037-14	MDA-07	Solid/Soil	12/02/10 12:35	12/03/10 13:05
HTL0037-15	MDA-13	Solid/Soil	12/02/10 14:40	12/03/10 13:05
HTL0037-16	MDA-14	Solid/Soil	12/02/10 16:55	12/03/10 13:05

# Detection Summary

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

## Client Sample ID: FHMA-01

## Lab Sample ID: HTL0037-01

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Endosulfan sulfate	0.00209	R1, J	0.00374	0.000935	mg/kg	1		EPA 8081	total
Heptachlor	0.00268	R1, J	0.00374	0.00131	mg/kg	1		EPA 8081	total
gamma-Chlordane	0.00128	J	0.00374	0.000935	mg/kg	1		EPA 8081	total
Arsenic	13.0		9.49	0.0759	mg/kg	1		EPA 6010	total
Barium	23.1		19.0	0.0797	mg/kg	1		EPA 6010	total
Cadmium	0.381	J	3.80	0.0769	mg/kg	1		EPA 6010	total
Chromium	101		9.49	0.0693	mg/kg	1		EPA 6010	total
Lead	0.775	J	19.0	0.0664	mg/kg	1		EPA 6010	total
Selenium	2.43	J	19.0	0.0854	mg/kg	1		EPA 6010	total
Mercury	0.0303		0.00471	0.0000942	mg/kg	1		EPA 7471	total

## Client Sample ID: FHMA-02

## Lab Sample ID: HTL0037-02

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDD	0.00166	R10, J	0.00382	0.00105	mg/kg	1		EPA 8081	total
4,4'-DDE	0.00248	J	0.00382	0.000955	mg/kg	1		EPA 8081	total
4,4'-DDT	0.00532		0.00382	0.000669	mg/kg	1		EPA 8081	total
Chlordane	0.163		0.0315	0.0134	mg/kg	1		EPA 8081	total
Dieldrin	0.00417		0.00382	0.00134	mg/kg	1		EPA 8081	total
Endrin aldehyde	0.000892	R1, J	0.00382	0.000669	mg/kg	1		EPA 8081	total
Heptachlor	0.00274	R1, J	0.00382	0.00134	mg/kg	1		EPA 8081	total
Heptachlor epoxide	0.00436	R1	0.00382	0.00105	mg/kg	1		EPA 8081	total
alpha-Chlordane	0.0301	R10	0.00382	0.00172	mg/kg	1		EPA 8081	total
gamma-Chlordane	0.0237		0.00382	0.000955	mg/kg	1		EPA 8081	total
Arsenic	22.7		9.58	0.0766	mg/kg	1		EPA 6010	total
Barium	45.0		19.2	0.0805	mg/kg	1		EPA 6010	total
Cadmium	0.348	J	3.83	0.0776	mg/kg	1		EPA 6010	total
Chromium	59.9		9.58	0.0699	mg/kg	1		EPA 6010	total
Lead	15.7	J	19.2	0.0670	mg/kg	1		EPA 6010	total
Selenium	3.83	J	19.2	0.0862	mg/kg	1		EPA 6010	total
Silver	0.269	J	9.58	0.00670	mg/kg	1		EPA 6010	total
Mercury	0.0432		0.00500	0.000100	mg/kg	1		EPA 7471	total

## Client Sample ID: EB-101129

## Lab Sample ID: HTL0037-03

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.0800		0.0250	0.0119	ug/L	1		EPA 7470	total

## Client Sample ID: FHMA-03

## Lab Sample ID: HTL0037-04

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlordane	0.0234	R1, J	0.0324	0.0137	mg/kg	1		EPA 8081	total
Endrin aldehyde	0.00288	R1, J	0.00392	0.000686	mg/kg	1		EPA 8081	total
Endrin ketone	0.00438	R1	0.00392	0.00167	mg/kg	1		EPA 8081	total
gamma-Chlordane	0.00663		0.00392	0.000980	mg/kg	1		EPA 8081	total
Arsenic	16.8		10.1	0.0804	mg/kg	1		EPA 6010	total
Barium	24.9		20.1	0.0844	mg/kg	1		EPA 6010	total
Cadmium	0.611	J	4.02	0.0814	mg/kg	1		EPA 6010	total
Chromium	147		10.1	0.0734	mg/kg	1		EPA 6010	total
Lead	16.0	J	20.1	0.0704	mg/kg	1		EPA 6010	total
Selenium	1.58	J	20.1	0.0905	mg/kg	1		EPA 6010	total
Mercury	0.0465		0.00467	0.0000935	mg/kg	1		EPA 7471	total

# Detection Summary

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

## Client Sample ID: FHMA-04

## Lab Sample ID: HTL0037-05

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	12.2		9.63	0.0771	mg/kg	1		EPA 6010	total
Barium	23.9		19.3	0.0809	mg/kg	1		EPA 6010	total
Cadmium	0.317	J	3.85	0.0780	mg/kg	1		EPA 6010	total
Chromium	78.8		9.63	0.0703	mg/kg	1		EPA 6010	total
Lead	3.00	J	19.3	0.0674	mg/kg	1		EPA 6010	total
Selenium	3.25	J	19.3	0.0867	mg/kg	1		EPA 6010	total
Mercury	0.0182		0.00496	0.0000992	mg/kg	1		EPA 7471	total

## Client Sample ID: FHMA-05

## Lab Sample ID: HTL0037-06

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDT	0.00347	R1, J	0.00386	0.000675	mg/kg	1		EPA 8081	total
Arsenic	97.5		9.29	0.0743	mg/kg	1		EPA 6010	total
Barium	23.4		18.6	0.0781	mg/kg	1		EPA 6010	total
Cadmium	0.388	J	3.72	0.0753	mg/kg	1		EPA 6010	total
Chromium	69.0		9.29	0.0678	mg/kg	1		EPA 6010	total
Lead	25.9		18.6	0.0651	mg/kg	1		EPA 6010	total
Selenium	3.25	J	18.6	0.0836	mg/kg	1		EPA 6010	total
Silver	0.110	J	9.29	0.00651	mg/kg	1		EPA 6010	total
Mercury	0.120		0.00462	0.0000924	mg/kg	1		EPA 7471	total

## Client Sample ID: FHMA-06

## Lab Sample ID: HTL0037-07

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
gamma-Chlordane	0.00181	J	0.00395	0.000987	mg/kg	1		EPA 8081	total
Arsenic	69.2		9.20	0.0736	mg/kg	1		EPA 6010	total
Barium	20.8		18.4	0.0773	mg/kg	1		EPA 6010	total
Cadmium	0.472	J	3.68	0.0745	mg/kg	1		EPA 6010	total
Chromium	88.4		9.20	0.0672	mg/kg	1		EPA 6010	total
Lead	31.8		18.4	0.0644	mg/kg	1		EPA 6010	total
Selenium	3.25	J	18.4	0.0828	mg/kg	1		EPA 6010	total
Mercury	0.0813		0.00425	0.0000850	mg/kg	1		EPA 7471	total

## Client Sample ID: FHMA-11

## Lab Sample ID: HTL0037-08

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
gamma-Chlordane	0.00194	J	0.00417	0.00104	mg/kg	1		EPA 8081	total
Arsenic	50.4		8.18	0.0654	mg/kg	1		EPA 6010	total
Barium	21.0		16.4	0.0687	mg/kg	1		EPA 6010	total
Cadmium	0.402	J	3.27	0.0662	mg/kg	1		EPA 6010	total
Chromium	80.8		8.18	0.0597	mg/kg	1		EPA 6010	total
Lead	7.81	J	16.4	0.0572	mg/kg	1		EPA 6010	total
Selenium	2.76	J	16.4	0.0736	mg/kg	1		EPA 6010	total
Mercury	0.0545		0.00507	0.000101	mg/kg	1		EPA 7471	total

## Client Sample ID: FHMA-12

## Lab Sample ID: HTL0037-09

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	0.00102	J	0.00373	0.000932	mg/kg	1		EPA 8081	total
gamma-Chlordane	0.00217	J	0.00373	0.000932	mg/kg	1		EPA 8081	total
Arsenic	40.8		9.61	0.0768	mg/kg	1		EPA 6010	total
Barium	23.6		19.2	0.0807	mg/kg	1		EPA 6010	total
Cadmium	0.322	J	3.84	0.0778	mg/kg	1		EPA 6010	total
Chromium	86.0		9.61	0.0701	mg/kg	1		EPA 6010	total

# Detection Summary

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

## Client Sample ID: FHMA-12 (Continued)

Lab Sample ID: HTL0037-09

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	8.09	J	19.2	0.0672	mg/kg	1		EPA 6010	total
Selenium	3.18	J	19.2	0.0865	mg/kg	1		EPA 6010	total
Silver	0.175	J	9.61	0.00672	mg/kg	1		EPA 6010	total
Mercury	0.0647		0.00486	0.0000973	mg/kg	1		EPA 7471	total

## Client Sample ID: EB-101130

Lab Sample ID: HTL0037-10

No Detections.

## Client Sample ID: MDA-10

Lab Sample ID: HTL0037-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDD	0.00132	H1, C-06 R1C	0.00369	0.00102	mg/kg	1		EPA 8081	total
4,4'-DDE	0.00188	H1, C-06 J	0.00369	0.000923	mg/kg	1		EPA 8081	total
beta-BHC	0.00298	H1, C-06 R1C	0.00369	0.00157	mg/kg	1		EPA 8081	total
Chlordane	0.0373	H1, C-06 R1C	0.0305	0.0129	mg/kg	1		EPA 8081	total
Endrin aldehyde	0.0126	H1, C-06 R1	0.00369	0.000646	mg/kg	1		EPA 8081	total
Heptachlor epoxide	0.0295	H1, C-06 R1	0.00369	0.00102	mg/kg	1		EPA 8081	total
alpha-Chlordane	0.00311	H1, C-06 R1C	0.00369	0.00166	mg/kg	1		EPA 8081	total
gamma-Chlordane	0.00185	H1, C-06 R1C	0.00369	0.000923	mg/kg	1		EPA 8081	total
Arsenic	22.8		9.61	0.0768	mg/kg	1		EPA 6010	total
Barium	18.3	J	19.2	0.0807	mg/kg	1		EPA 6010	total
Chromium	146		9.61	0.0701	mg/kg	1		EPA 6010	total
Lead	25.5		19.2	0.0672	mg/kg	1		EPA 6010	total
Selenium	1.33	J	19.2	0.0865	mg/kg	1		EPA 6010	total
Silver	1.31	J	9.61	0.00672	mg/kg	1		EPA 6010	total
Mercury	0.167		0.00602	0.000120	mg/kg	1		EPA 7471	total

## Client Sample ID: MDA-09

Lab Sample ID: HTL0037-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	0.00214	H1, C-06 J	0.00395	0.000987	mg/kg	1		EPA 8081	total
beta-BHC	0.00431	H1, C-06	0.00395	0.00168	mg/kg	1		EPA 8081	total
Chlordane	0.0500	H1, C-06	0.0326	0.0138	mg/kg	1		EPA 8081	total
Endrin aldehyde	0.00207	H1, C-06 J	0.00395	0.000691	mg/kg	1		EPA 8081	total
gamma-BHC (Lindane)	0.00148	H1, C-06 R1,	0.00395	0.00118	mg/kg	1		EPA 8081	total
Methoxychlor	0.00257	H1, C-06 A-0	0.0197	0.00138	mg/kg	1		EPA 8081	total
alpha-Chlordane	0.00322	H1, C-06 R1C	0.00395	0.00178	mg/kg	1		EPA 8081	total
gamma-Chlordane	0.00188	H1, C-06 R1C	0.00395	0.000987	mg/kg	1		EPA 8081	total
Arsenic	41.6		9.69	0.0775	mg/kg	1		EPA 6010	total
Barium	41.9		19.4	0.0814	mg/kg	1		EPA 6010	total
Chromium	256		9.69	0.0707	mg/kg	1		EPA 6010	total
Lead	110		19.4	0.0678	mg/kg	1		EPA 6010	total
Silver	1.27	J	9.69	0.00678	mg/kg	1		EPA 6010	total
Mercury	0.204		0.0225	0.000450	mg/kg	5		EPA 7471	total

## Client Sample ID: MDA-08

Lab Sample ID: HTL0037-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	0.00196	C-06, H1 R1,	0.00392	0.000980	mg/kg	1		EPA 8081	total
Chlordane	0.0767	C-06, H1	0.0324	0.0137	mg/kg	1		EPA 8081	total
gamma-BHC (Lindane)	0.00137	C-06, H1 R1C	0.00392	0.00118	mg/kg	1		EPA 8081	total
Heptachlor epoxide	0.00216	C-06, H1 R1,	0.00392	0.00108	mg/kg	1		EPA 8081	total
alpha-Chlordane	0.00866	C-06, H1 R1C	0.00392	0.00176	mg/kg	1		EPA 8081	total

# Detection Summary

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

## Client Sample ID: MDA-08 (Continued)

## Lab Sample ID: HTL0037-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
gamma-Chlordane	0.0103	C-06, H1	0.00392	0.000980	mg/kg	1		EPA 8081	total
Arsenic	20.1		9.53	0.0763	mg/kg	1		EPA 6010	total
Barium	28.1		19.1	0.0801	mg/kg	1		EPA 6010	total
Chromium	155		9.53	0.0696	mg/kg	1		EPA 6010	total
Lead	29.8		19.1	0.0667	mg/kg	1		EPA 6010	total
Selenium	1.47	J	19.1	0.0858	mg/kg	1		EPA 6010	total
Silver	1.04	J	9.53	0.00667	mg/kg	1		EPA 6010	total
Mercury	0.106		0.00518	0.000104	mg/kg	1		EPA 7471	total

## Client Sample ID: MDA-07

## Lab Sample ID: HTL0037-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	0.00193	H1, C-06 R1,	0.00392	0.000980	mg/kg	1		EPA 8081	total
beta-BHC	0.0143	H1, C-06 R1C	0.00392	0.00167	mg/kg	1		EPA 8081	total
Chlordane	0.109	H1, C-06	0.0324	0.0137	mg/kg	1		EPA 8081	total
Dieldrin	0.00180	H1, C-06 R1C	0.00392	0.00137	mg/kg	1		EPA 8081	total
Endrin	0.00206	H1, C-06 R1,	0.00392	0.000980	mg/kg	1		EPA 8081	total
Endrin aldehyde	0.00546	H1, C-06 R1	0.00392	0.000686	mg/kg	1		EPA 8081	total
gamma-BHC (Lindane)	0.00373	H1, C-06 R1,	0.00392	0.00118	mg/kg	1		EPA 8081	total
Heptachlor epoxide	0.00444	H1, C-06 R1	0.00392	0.00108	mg/kg	1		EPA 8081	total
alpha-Chlordane	0.00859	H1, C-06 R1C	0.00392	0.00176	mg/kg	1		EPA 8081	total
gamma-Chlordane	0.00882	H1, C-06 R1C	0.00392	0.000980	mg/kg	1		EPA 8081	total
Arsenic	15.3		9.57	0.0766	mg/kg	1		EPA 6010	total
Barium	23.5		19.1	0.0804	mg/kg	1		EPA 6010	total
Chromium	159		9.57	0.0699	mg/kg	1		EPA 6010	total
Lead	20.5		19.1	0.0670	mg/kg	1		EPA 6010	total
Selenium	1.01	J	19.1	0.0861	mg/kg	1		EPA 6010	total
Silver	1.23	J	9.57	0.00670	mg/kg	1		EPA 6010	total
Mercury	0.109		0.0253	0.000506	mg/kg	5		EPA 7471	total

## Client Sample ID: MDA-13

## Lab Sample ID: HTL0037-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	0.00116	H1, C-06 J	0.00375	0.000937	mg/kg	1		EPA 8081	total
beta-BHC	0.0313	H1, C-06	0.00375	0.00159	mg/kg	1		EPA 8081	total
Chlordane	0.139	H1, C-06	0.0309	0.0131	mg/kg	1		EPA 8081	total
delta-BHC	0.00472	H1, C-06 R1	0.00375	0.00150	mg/kg	1		EPA 8081	total
Endrin aldehyde	0.00791	H1, C-06 R1	0.00375	0.000656	mg/kg	1		EPA 8081	total
gamma-BHC (Lindane)	0.00578	H1, C-06 R1	0.00375	0.00112	mg/kg	1		EPA 8081	total
Methoxychlor	0.0129	H1, C-06 A-0	0.0187	0.00131	mg/kg	1		EPA 8081	total
alpha-Chlordane	0.00703	H1, C-06 R1C	0.00375	0.00169	mg/kg	1		EPA 8081	total
gamma-Chlordane	0.00947	H1, C-06	0.00375	0.000937	mg/kg	1		EPA 8081	total
Arsenic	15.3		9.12	0.0729	mg/kg	1		EPA 6010	total
Barium	24.1		18.2	0.0766	mg/kg	1		EPA 6010	total
Chromium	168		9.12	0.0665	mg/kg	1		EPA 6010	total
Lead	22.2		18.2	0.0638	mg/kg	1		EPA 6010	total
Selenium	0.686	J	18.2	0.0820	mg/kg	1		EPA 6010	total
Silver	0.985	J	9.12	0.00638	mg/kg	1		EPA 6010	total
Mercury	0.0745		0.00590	0.000118	mg/kg	1		EPA 7471	total

## Client Sample ID: MDA-14

## Lab Sample ID: HTL0037-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
beta-BHC	0.0167	H1, C-06 R1C	0.00392	0.00167	mg/kg	1		EPA 8081	total

# Detection Summary

Client: Weston Solutions, Inc.  
 Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
 SDG: HTL0037

**Client Sample ID: MDA-14 (Continued)**

**Lab Sample ID: HTL0037-16**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlordane	0.139	H1, C-06	0.0324	0.0137	mg/kg	1		EPA 8081	total
Endrin aldehyde	0.00742	H1, C-06 R1	0.00392	0.000686	mg/kg	1		EPA 8081	total
gamma-BHC (Lindane)	0.00399	H1, C-06 R1	0.00392	0.00118	mg/kg	1		EPA 8081	total
Methoxychlor	0.0387	H1, C-06 A-0	0.0196	0.00137	mg/kg	1		EPA 8081	total
alpha-Chlordane	0.0102	H1, C-06 R1C	0.00392	0.00176	mg/kg	1		EPA 8081	total
gamma-Chlordane	0.0143	H1, C-06	0.00392	0.000980	mg/kg	1		EPA 8081	total
Arsenic	14.6		10.0	0.0801	mg/kg	1		EPA 6010	total
Barium	23.3		20.0	0.0841	mg/kg	1		EPA 6010	total
Chromium	154		10.0	0.0731	mg/kg	1		EPA 6010	total
Lead	13.7	J	20.0	0.0701	mg/kg	1		EPA 6010	total
Selenium	1.40	J	20.0	0.0901	mg/kg	1		EPA 6010	total
Silver	1.10	J	10.0	0.00701	mg/kg	1		EPA 6010	total
Mercury	0.0714		0.00534	0.000107	mg/kg	1		EPA 7471	total

- 1
- 2
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- 11
- 12
- 13
- 14

# Analytical Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

**Client Sample ID: FHMA-01**

**Lab Sample ID: HTL0037-01**

**Date Collected: 11/29/10 12:15**

**Matrix: Solid/Soil**

**Date Received: 12/03/10 13:05**

**Method: EPA 8270C - SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3546/8270C)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
Acenaphthylene	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
Aniline	ND		400		ug/kg		12/12/10 11:14	12/13/10 18:31	1
Anthracene	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
Benzidine	ND		640		ug/kg		12/12/10 11:14	12/13/10 18:31	1
Benzo(a)anthracene	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
Benzo(a)pyrene	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
Benzo(b)fluoranthene	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
Benzo(g,h,i)perylene	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
Benzo(k)fluoranthene	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
Benzoic acid	ND		800		ug/kg		12/12/10 11:14	12/13/10 18:31	1
Benzyl alcohol	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
4-Bromophenyl phenyl ether	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
Butyl benzyl phthalate	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
4-Chloro-3-methylphenol	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
4-Chloroaniline	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
Bis(2-chloroethoxy)methane	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
Bis(2-chloroethyl)ether	ND		160		ug/kg		12/12/10 11:14	12/13/10 18:31	1
Bis(2-chloroisopropyl)ether	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
2-Chloronaphthalene	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
2-Chlorophenol	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
4-Chlorophenyl phenyl ether	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
Chrysene	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
Dibenz(a,h)anthracene	ND		400		ug/kg		12/12/10 11:14	12/13/10 18:31	1
Dibenzofuran	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
Di-n-butyl phthalate	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
1,2-Dichlorobenzene	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
1,3-Dichlorobenzene	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
1,4-Dichlorobenzene	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
3,3'-Dichlorobenzidine	ND		800		ug/kg		12/12/10 11:14	12/13/10 18:31	1
2,4-Dichlorophenol	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
Diethyl phthalate	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
2,4-Dimethylphenol	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
Dimethyl phthalate	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
4,6-Dinitro-2-methylphenol	ND		400		ug/kg		12/12/10 11:14	12/13/10 18:31	1
2,4-Dinitrophenol	ND		640		ug/kg		12/12/10 11:14	12/13/10 18:31	1
2,4-Dinitrotoluene	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
2,6-Dinitrotoluene	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
Di-n-octyl phthalate	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
1,2-Diphenylhydrazine/Azobenzene	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
Fluoranthene	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
Fluorene	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
Hexachlorobenzene	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
Hexachlorobutadiene	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
Hexachlorocyclopentadiene	ND		800		ug/kg		12/12/10 11:14	12/13/10 18:31	1
Hexachloroethane	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
Indeno(1,2,3-cd)pyrene	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
Isophorone	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
2-Methylnaphthalene	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
2-Methylphenol	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1

# Analytical Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

**Client Sample ID: FHMA-01**

**Lab Sample ID: HTL0037-01**

**Date Collected: 11/29/10 12:15**

**Matrix: Solid/Soil**

**Date Received: 12/03/10 13:05**

**Method: EPA 8270C - SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3546/8270C) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
2-Nitroaniline	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
3-Nitroaniline	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
4-Nitroaniline	ND		800		ug/kg		12/12/10 11:14	12/13/10 18:31	1
Nitrobenzene	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
2-Nitrophenol	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
4-Nitrophenol	ND		800		ug/kg		12/12/10 11:14	12/13/10 18:31	1
N-Nitroso-di-n-propylamine	ND		240		ug/kg		12/12/10 11:14	12/13/10 18:31	1
N-Nitrosodimethylamine	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
N-Nitrosodiphenylamine	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
Pentachlorophenol	ND		800		ug/kg		12/12/10 11:14	12/13/10 18:31	1
Phenanthrene	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
Phenol	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
Pyrene	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
Pyridine	ND		190		ug/kg		12/12/10 11:14	12/13/10 18:31	1
1,2,4-Trichlorobenzene	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
2,4,5-Trichlorophenol	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
2,4,6-Trichlorophenol	ND		320		ug/kg		12/12/10 11:14	12/13/10 18:31	1
Acetophenone	ND		340		ug/kg		12/12/10 11:14	12/13/10 18:31	1
4-Aminobiphenyl	ND		390		ug/kg		12/12/10 11:14	12/13/10 18:31	1
1-Chloronaphthalene	ND		340		ug/kg		12/12/10 11:14	12/13/10 18:31	1
Dibenz[a,j]acridine	ND		340		ug/kg		12/12/10 11:14	12/13/10 18:31	1
2,6-Dichlorophenol	ND		430		ug/kg		12/12/10 11:14	12/13/10 18:31	1
Dimethylaminoazobenzene	ND		390		ug/kg		12/12/10 11:14	12/13/10 18:31	1
7,12-Dimethylbenz[a]anthracene	ND		390		ug/kg		12/12/10 11:14	12/13/10 18:31	1
a,a-Dimethylphenethylamine	ND		3900		ug/kg		12/12/10 11:14	12/13/10 18:31	1
Ethyl methanesulfonate	ND		340		ug/kg		12/12/10 11:14	12/13/10 18:31	1
1-Methylnaphthalene	ND		340		ug/kg		12/12/10 11:14	12/13/10 18:31	1
3-Methylcholanthrene	ND		340		ug/kg		12/12/10 11:14	12/13/10 18:31	1
Methyl methanesulfonate	ND		240		ug/kg		12/12/10 11:14	12/13/10 18:31	1
1-Naphthylamine	ND		480		ug/kg		12/12/10 11:14	12/13/10 18:31	1
2-Naphthylamine	ND		480		ug/kg		12/12/10 11:14	12/13/10 18:31	1
N-Nitrosodi-n-butylamine	ND		390		ug/kg		12/12/10 11:14	12/13/10 18:31	1
N-Nitrosopiperidine	ND		290		ug/kg		12/12/10 11:14	12/13/10 18:31	1
Pentachloronitrobenzene	ND		480		ug/kg		12/12/10 11:14	12/13/10 18:31	1
Phenacetin	ND		340		ug/kg		12/12/10 11:14	12/13/10 18:31	1
2-Picoline	ND		290		ug/kg		12/12/10 11:14	12/13/10 18:31	1
Pronamide	ND		430		ug/kg		12/12/10 11:14	12/13/10 18:31	1
1,2,4,5-Tetrachlorobenzene	ND		340		ug/kg		12/12/10 11:14	12/13/10 18:31	1
2,3,4,6-Tetrachlorophenol	ND		340		ug/kg		12/12/10 11:14	12/13/10 18:31	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	63		35 - 125	12/12/10 11:14	12/13/10 18:31	1
2-Fluorobiphenyl	63		35 - 120	12/12/10 11:14	12/13/10 18:31	1
2-Fluorophenol	54		25 - 120	12/12/10 11:14	12/13/10 18:31	1
Nitrobenzene-d5	48		30 - 120	12/12/10 11:14	12/13/10 18:31	1
Phenol-d6	58		35 - 120	12/12/10 11:14	12/13/10 18:31	1
Terphenyl-d14	92		40 - 135	12/12/10 11:14	12/13/10 18:31	1

# Analytical Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

**Client Sample ID: FHMA-01**  
**Date Collected: 11/29/10 12:15**  
**Date Received: 12/03/10 13:05**

**Lab Sample ID: HTL0037-01**  
**Matrix: Solid/Soil**

**Method: EPA 8081 - Organochlorine Pesticides by EPA Method 8081**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.00374	0.00103	mg/kg		12/09/10 09:26	12/10/10 20:42	1
4,4'-DDE	ND		0.00374	0.000935	mg/kg		12/09/10 09:26	12/10/10 20:42	1
4,4'-DDT	ND		0.00374	0.000654	mg/kg		12/09/10 09:26	12/10/10 20:42	1
Aldrin	ND		0.00374	0.00140	mg/kg		12/09/10 09:26	12/10/10 20:42	1
alpha-BHC	ND		0.00374	0.00168	mg/kg		12/09/10 09:26	12/10/10 20:42	1
beta-BHC	ND		0.00374	0.00159	mg/kg		12/09/10 09:26	12/10/10 20:42	1
Chlordane	ND		0.0308	0.0131	mg/kg		12/09/10 09:26	12/10/10 20:42	1
delta-BHC	ND		0.00374	0.00150	mg/kg		12/09/10 09:26	12/10/10 20:42	1
Dieldrin	ND		0.00374	0.00131	mg/kg		12/09/10 09:26	12/10/10 20:42	1
Endosulfan I	ND		0.00374	0.00140	mg/kg		12/09/10 09:26	12/10/10 20:42	1
Endosulfan II	ND		0.00374	0.000748	mg/kg		12/09/10 09:26	12/10/10 20:42	1
<b>Endosulfan sulfate</b>	<b>0.00209</b>	<b>R1, J</b>	0.00374	0.000935	mg/kg		12/09/10 09:26	12/10/10 20:42	1
Endrin	ND		0.00374	0.000935	mg/kg		12/09/10 09:26	12/10/10 20:42	1
Endrin aldehyde	ND		0.00374	0.000654	mg/kg		12/09/10 09:26	12/10/10 20:42	1
Endrin ketone	ND		0.00374	0.00159	mg/kg		12/09/10 09:26	12/10/10 20:42	1
gamma-BHC (Lindane)	ND		0.00374	0.00112	mg/kg		12/09/10 09:26	12/10/10 20:42	1
<b>Heptachlor</b>	<b>0.00268</b>	<b>R1, J</b>	0.00374	0.00131	mg/kg		12/09/10 09:26	12/10/10 20:42	1
Heptachlor epoxide	ND		0.00374	0.00103	mg/kg		12/09/10 09:26	12/10/10 20:42	1
Methoxychlor	ND	B	0.0187	0.00131	mg/kg		12/09/10 09:26	12/10/10 20:42	1
Toxaphene	ND		0.0467	0.0467	mg/kg		12/09/10 09:26	12/10/10 20:42	1
alpha-Chlordane	ND		0.00374	0.00168	mg/kg		12/09/10 09:26	12/10/10 20:42	1
<b>gamma-Chlordane</b>	<b>0.00128</b>	<b>J</b>	0.00374	0.000935	mg/kg		12/09/10 09:26	12/10/10 20:42	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Decachlorobiphenyl	118		45 - 120				12/09/10 09:26	12/10/10 20:42	1
Tetrachloro-meta-xylene	68		50 - 120				12/09/10 09:26	12/10/10 20:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>13.0</b>		9.49	0.0759	mg/kg		12/14/10 12:01	12/17/10 16:38	1
<b>Barium</b>	<b>23.1</b>		19.0	0.0797	mg/kg		12/14/10 12:01	12/17/10 16:38	1
<b>Cadmium</b>	<b>0.381</b>	<b>J</b>	3.80	0.0769	mg/kg		12/14/10 12:01	12/17/10 16:38	1
<b>Chromium</b>	<b>101</b>		9.49	0.0693	mg/kg		12/14/10 12:01	12/17/10 16:38	1
<b>Lead</b>	<b>0.775</b>	<b>J</b>	19.0	0.0664	mg/kg		12/14/10 12:01	12/17/10 16:38	1
<b>Selenium</b>	<b>2.43</b>	<b>J</b>	19.0	0.0854	mg/kg		12/14/10 12:01	12/17/10 16:38	1
Silver	ND		9.49	0.00664	mg/kg		12/14/10 12:01	12/17/10 16:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.0303</b>		0.00471	0.0000942	mg/kg		12/20/10 09:29	12/20/10 16:42	1

**Client Sample ID: FHMA-02**  
**Date Collected: 11/29/10 16:30**  
**Date Received: 12/03/10 13:05**

**Lab Sample ID: HTL0037-02**  
**Matrix: Solid/Soil**

**Method: EPA 8270C - SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3546/8270C)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
Acenaphthylene	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
Aniline	ND	RL1	740		ug/kg		12/12/10 11:14	12/13/10 18:52	2
Anthracene	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2

# Analytical Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

**Client Sample ID: FHMA-02**

**Lab Sample ID: HTL0037-02**

**Date Collected: 11/29/10 16:30**

**Matrix: Solid/Soil**

**Date Received: 12/03/10 13:05**

**Method: EPA 8270C - SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3546/8270C) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzidine	ND	RL1	1200		ug/kg		12/12/10 11:14	12/13/10 18:52	2
Benzo(a)anthracene	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
Benzo(a)pyrene	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
Benzo(b)fluoranthene	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
Benzo(g,h,i)perylene	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
Benzo(k)fluoranthene	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
Benzoic acid	ND	RL1	1500		ug/kg		12/12/10 11:14	12/13/10 18:52	2
Benzyl alcohol	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
4-Bromophenyl phenyl ether	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
Butyl benzyl phthalate	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
4-Chloro-3-methylphenol	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
4-Chloroaniline	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
Bis(2-chloroethoxy)methane	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
Bis(2-chloroethyl)ether	ND	RL1	300		ug/kg		12/12/10 11:14	12/13/10 18:52	2
Bis(2-chloroisopropyl)ether	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
2-Chloronaphthalene	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
2-Chlorophenol	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
4-Chlorophenyl phenyl ether	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
Chrysene	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
Dibenz(a,h)anthracene	ND	RL1	740		ug/kg		12/12/10 11:14	12/13/10 18:52	2
Dibenzofuran	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
Di-n-butyl phthalate	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
1,2-Dichlorobenzene	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
1,3-Dichlorobenzene	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
1,4-Dichlorobenzene	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
3,3'-Dichlorobenzidine	ND	RL1	1500		ug/kg		12/12/10 11:14	12/13/10 18:52	2
2,4-Dichlorophenol	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
Diethyl phthalate	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
2,4-Dimethylphenol	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
Dimethyl phthalate	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
4,6-Dinitro-2-methylphenol	ND	RL1	740		ug/kg		12/12/10 11:14	12/13/10 18:52	2
2,4-Dinitrophenol	ND	RL1	1200		ug/kg		12/12/10 11:14	12/13/10 18:52	2
2,4-Dinitrotoluene	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
2,6-Dinitrotoluene	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
Di-n-octyl phthalate	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
1,2-Diphenylhydrazine/Azobenzene	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
Fluoranthene	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
Fluorene	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
Hexachlorobenzene	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
Hexachlorobutadiene	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
Hexachlorocyclopentadiene	ND	RL1	1500		ug/kg		12/12/10 11:14	12/13/10 18:52	2
Hexachloroethane	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
Indeno(1,2,3-cd)pyrene	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
Isophorone	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
2-Methylnaphthalene	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
2-Methylphenol	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
Naphthalene	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
2-Nitroaniline	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
3-Nitroaniline	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
4-Nitroaniline	ND	RL1	1500		ug/kg		12/12/10 11:14	12/13/10 18:52	2

# Analytical Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

**Client Sample ID: FHMA-02**

**Lab Sample ID: HTL0037-02**

**Date Collected: 11/29/10 16:30**

**Matrix: Solid/Soil**

**Date Received: 12/03/10 13:05**

**Method: EPA 8270C - SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3546/8270C) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
2-Nitrophenol	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
4-Nitrophenol	ND	RL1	1500		ug/kg		12/12/10 11:14	12/13/10 18:52	2
N-Nitroso-di-n-propylamine	ND	RL1	440		ug/kg		12/12/10 11:14	12/13/10 18:52	2
N-Nitrosodimethylamine	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
N-Nitrosodiphenylamine	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
Pentachlorophenol	ND	RL1	1500		ug/kg		12/12/10 11:14	12/13/10 18:52	2
Phenanthrene	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
Phenol	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
Pyrene	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
Pyridine	ND	RL1	350		ug/kg		12/12/10 11:14	12/13/10 18:52	2
1,2,4-Trichlorobenzene	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
2,4,5-Trichlorophenol	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
2,4,6-Trichlorophenol	ND	RL1	580		ug/kg		12/12/10 11:14	12/13/10 18:52	2
Acetophenone	ND	RL1	610		ug/kg		12/12/10 11:14	12/13/10 18:52	2
4-Aminobiphenyl	ND	RL1	700		ug/kg		12/12/10 11:14	12/13/10 18:52	2
1-Chloronaphthalene	ND	RL1	610		ug/kg		12/12/10 11:14	12/13/10 18:52	2
Dibenz[a,j]acridine	ND	RL1	610		ug/kg		12/12/10 11:14	12/13/10 18:52	2
2,6-Dichlorophenol	ND	RL1	790		ug/kg		12/12/10 11:14	12/13/10 18:52	2
Dimethylaminoazobenzene	ND	RL1	700		ug/kg		12/12/10 11:14	12/13/10 18:52	2
7,12-Dimethylbenz[a]anthracene	ND	RL1	700		ug/kg		12/12/10 11:14	12/13/10 18:52	2
a,a-Dimethylphenethylamine	ND	RL1	7000		ug/kg		12/12/10 11:14	12/13/10 18:52	2
Ethyl methanesulfonate	ND	RL1	610		ug/kg		12/12/10 11:14	12/13/10 18:52	2
1-Methylnaphthalene	ND	RL1	610		ug/kg		12/12/10 11:14	12/13/10 18:52	2
3-Methylcholanthrene	ND	RL1	610		ug/kg		12/12/10 11:14	12/13/10 18:52	2
Methyl methanesulfonate	ND	RL1	440		ug/kg		12/12/10 11:14	12/13/10 18:52	2
1-Naphthylamine	ND	RL1	880		ug/kg		12/12/10 11:14	12/13/10 18:52	2
2-Naphthylamine	ND	RL1	880		ug/kg		12/12/10 11:14	12/13/10 18:52	2
N-Nitrosodi-n-butylamine	ND	RL1	700		ug/kg		12/12/10 11:14	12/13/10 18:52	2
N-Nitrosopiperidine	ND	RL1	530		ug/kg		12/12/10 11:14	12/13/10 18:52	2
Pentachloronitrobenzene	ND	RL1	880		ug/kg		12/12/10 11:14	12/13/10 18:52	2
Phenacetin	ND	RL1	610		ug/kg		12/12/10 11:14	12/13/10 18:52	2
2-Picoline	ND	RL1	530		ug/kg		12/12/10 11:14	12/13/10 18:52	2
Pronamide	ND	RL1	790		ug/kg		12/12/10 11:14	12/13/10 18:52	2
1,2,4,5-Tetrachlorobenzene	ND	RL1	610		ug/kg		12/12/10 11:14	12/13/10 18:52	2
2,3,4,6-Tetrachlorophenol	ND	RL1	610		ug/kg		12/12/10 11:14	12/13/10 18:52	2

Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	61	RL1	35 - 125				12/12/10 11:14	12/13/10 18:52	2
2-Fluorobiphenyl	64	RL1	35 - 120				12/12/10 11:14	12/13/10 18:52	2
2-Fluorophenol	55	RL1	25 - 120				12/12/10 11:14	12/13/10 18:52	2
Nitrobenzene-d5	51	RL1	30 - 120				12/12/10 11:14	12/13/10 18:52	2
Phenol-d6	58	RL1	35 - 120				12/12/10 11:14	12/13/10 18:52	2
Terphenyl-d14	86	RL1	40 - 135				12/12/10 11:14	12/13/10 18:52	2

**Method: EPA 8081 - Organochlorine Pesticides by EPA Method 8081**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.00166	R10, J	0.00382	0.00105	mg/kg		12/09/10 09:26	12/10/10 21:01	1
4,4'-DDE	0.00248	J	0.00382	0.000955	mg/kg		12/09/10 09:26	12/10/10 21:01	1
4,4'-DDT	0.00532		0.00382	0.000669	mg/kg		12/09/10 09:26	12/10/10 21:01	1
Aldrin	ND		0.00382	0.00143	mg/kg		12/09/10 09:26	12/10/10 21:01	1

# Analytical Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

**Client Sample ID: FHMA-02**

**Lab Sample ID: HTL0037-02**

Date Collected: 11/29/10 16:30

Matrix: Solid/Soil

Date Received: 12/03/10 13:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	ND		0.00382	0.00172	mg/kg		12/09/10 09:26	12/10/10 21:01	1
beta-BHC	ND		0.00382	0.00162	mg/kg		12/09/10 09:26	12/10/10 21:01	1
<b>Chlordane</b>	<b>0.163</b>		0.0315	0.0134	mg/kg		12/09/10 09:26	12/10/10 21:01	1
delta-BHC	ND		0.00382	0.00153	mg/kg		12/09/10 09:26	12/10/10 21:01	1
<b>Dieldrin</b>	<b>0.00417</b>		0.00382	0.00134	mg/kg		12/09/10 09:26	12/10/10 21:01	1
Endosulfan I	ND		0.00382	0.00143	mg/kg		12/09/10 09:26	12/10/10 21:01	1
Endosulfan II	ND		0.00382	0.000764	mg/kg		12/09/10 09:26	12/10/10 21:01	1
Endosulfan sulfate	ND		0.00382	0.000955	mg/kg		12/09/10 09:26	12/10/10 21:01	1
Endrin	ND		0.00382	0.000955	mg/kg		12/09/10 09:26	12/10/10 21:01	1
<b>Endrin aldehyde</b>	<b>0.000892</b>	<b>R1, J</b>	0.00382	0.000669	mg/kg		12/09/10 09:26	12/10/10 21:01	1
Endrin ketone	ND		0.00382	0.00162	mg/kg		12/09/10 09:26	12/10/10 21:01	1
gamma-BHC (Lindane)	ND		0.00382	0.00115	mg/kg		12/09/10 09:26	12/10/10 21:01	1
<b>Heptachlor</b>	<b>0.00274</b>	<b>R1, J</b>	0.00382	0.00134	mg/kg		12/09/10 09:26	12/10/10 21:01	1
<b>Heptachlor epoxide</b>	<b>0.00436</b>	<b>R1</b>	0.00382	0.00105	mg/kg		12/09/10 09:26	12/10/10 21:01	1
Methoxychlor	ND	B	0.0191	0.00134	mg/kg		12/09/10 09:26	12/10/10 21:01	1
Toxaphene	ND		0.0478	0.0478	mg/kg		12/09/10 09:26	12/10/10 21:01	1
<b>alpha-Chlordane</b>	<b>0.0301</b>	<b>R10</b>	0.00382	0.00172	mg/kg		12/09/10 09:26	12/10/10 21:01	1
<b>gamma-Chlordane</b>	<b>0.0237</b>		0.00382	0.000955	mg/kg		12/09/10 09:26	12/10/10 21:01	1
<b>Surrogate</b>	<b>% Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Decachlorobiphenyl	128	Z5, R1	45 - 120				12/09/10 09:26	12/10/10 21:01	1
Tetrachloro-meta-xylene	71		50 - 120				12/09/10 09:26	12/10/10 21:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>22.7</b>		9.58	0.0766	mg/kg		12/14/10 12:01	12/17/10 16:49	1
<b>Barium</b>	<b>45.0</b>		19.2	0.0805	mg/kg		12/14/10 12:01	12/17/10 16:49	1
<b>Cadmium</b>	<b>0.348</b>	<b>J</b>	3.83	0.0776	mg/kg		12/14/10 12:01	12/17/10 16:49	1
<b>Chromium</b>	<b>59.9</b>		9.58	0.0699	mg/kg		12/14/10 12:01	12/17/10 16:49	1
<b>Lead</b>	<b>15.7</b>	<b>J</b>	19.2	0.0670	mg/kg		12/14/10 12:01	12/17/10 16:49	1
<b>Selenium</b>	<b>3.83</b>	<b>J</b>	19.2	0.0862	mg/kg		12/14/10 12:01	12/17/10 16:49	1
<b>Silver</b>	<b>0.269</b>	<b>J</b>	9.58	0.00670	mg/kg		12/14/10 12:01	12/21/10 14:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.0432</b>		0.00500	0.000100	mg/kg		12/20/10 09:29	12/20/10 16:43	1

**Client Sample ID: EB-101129**

**Lab Sample ID: HTL0037-03**

Date Collected: 11/29/10 16:45

Matrix: Water - NonPotable

Date Received: 12/03/10 13:05

**Method: EPA 8270C - SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3520C/8270C)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
Acenaphthylene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
Aniline	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
Anthracene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
Benzidine	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:07	1
Benzo(a)anthracene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
Benzo(a)pyrene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
Benzo(b)fluoranthene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1

# Analytical Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

**Client Sample ID: EB-101129**

**Lab Sample ID: HTL0037-03**

**Date Collected: 11/29/10 16:45**

**Matrix: Water - NonPotable**

**Date Received: 12/03/10 13:05**

**Method: EPA 8270C - SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3520C/8270C) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzoic acid	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:07	1
Benzo(g,h,i)perylene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
Benzo(k)fluoranthene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
Benzyl alcohol	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:07	1
4-Bromophenyl phenyl ether	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
Butyl benzyl phthalate	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:07	1
4-Chloro-3-methylphenol	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:07	1
4-Chloroaniline	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
Bis(2-chloroethoxy)methane	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
Bis(2-chloroethyl)ether	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
Bis(2-chloroisopropyl)ether	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
2-Chloronaphthalene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
2-Chlorophenol	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
4-Chlorophenyl phenyl ether	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
Chrysene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
Dibenz(a,h)anthracene	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:07	1
Dibenzofuran	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
Di-n-butyl phthalate	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:07	1
1,2-Dichlorobenzene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
1,3-Dichlorobenzene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
1,4-Dichlorobenzene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
3,3'-Dichlorobenzidine	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:07	1
2,4-Dichlorophenol	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
Diethyl phthalate	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
2,4-Dimethylphenol	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:07	1
Dimethyl phthalate	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
1,2-Diphenylhydrazine/Azobenzene	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:07	1
4,6-Dinitro-2-methylphenol	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:07	1
2,4-Dinitrophenol	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:07	1
2,4-Dinitrotoluene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
2,6-Dinitrotoluene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
Di-n-octyl phthalate	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:07	1
Fluoranthene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
Fluorene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
Hexachlorobenzene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
Hexachlorobutadiene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
Hexachlorocyclopentadiene	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:07	1
Hexachloroethane	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
Indeno(1,2,3-cd)pyrene	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:07	1
Isophorone	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
2-Methylnaphthalene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
2-Methylphenol	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
3/4-Methylphenol	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:07	1
Naphthalene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
2-Nitroaniline	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:07	1
3-Nitroaniline	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:07	1
4-Nitroaniline	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:07	1
Nitrobenzene	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:07	1
2-Nitrophenol	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
4-Nitrophenol	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:07	1

# Analytical Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

**Client Sample ID: EB-101129**

**Lab Sample ID: HTL0037-03**

**Date Collected: 11/29/10 16:45**

**Matrix: Water - NonPotable**

**Date Received: 12/03/10 13:05**

**Method: EPA 8270C - SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3520C/8270C) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:07	1
N-Nitrosodiphenylamine	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
N-Nitroso-di-n-propylamine	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
Pentachlorophenol	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:07	1
Phenanthrene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
Phenol	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
Pyrene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
Pyridine	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:07	1
1,2,4-Trichlorobenzene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
2,4,5-Trichlorophenol	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:07	1
2,4,6-Trichlorophenol	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:07	1
Acetophenone	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
1-Chloronaphthalene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
4-Aminobiphenyl	ND	H3, RL4	16		ug/l		12/10/10 11:58	12/13/10 17:07	1
2,6-Dichlorophenol	ND	H3, RL4	16		ug/l		12/10/10 11:58	12/13/10 17:07	1
Dimethylaminoazobenzene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
7,12-Dimethylbenz[a]anthracene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
a,a-Dimethylphenethylamine	ND	H3, RL4	120		ug/l		12/10/10 11:58	12/13/10 17:07	1
Ethyl methanesulfonate	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
Dibenz[a,j]acridine	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
3-Methylcholanthrene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
Methyl methanesulfonate	ND	H3, RL4	16		ug/l		12/10/10 11:58	12/13/10 17:07	1
1-Naphthylamine	ND	H3, RL4	16		ug/l		12/10/10 11:58	12/13/10 17:07	1
2-Naphthylamine	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
N-Nitrosodi-n-butylamine	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
N-Nitrosopiperidine	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
Pentachloronitrobenzene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
Phenacetin	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
2-Picoline	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
Pronamide	ND	H3, RL4	16		ug/l		12/10/10 11:58	12/13/10 17:07	1
1,2,4,5-Tetrachlorobenzene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1
2,3,4,6-Tetrachlorophenol	ND	H3, RL4	16		ug/l		12/10/10 11:58	12/13/10 17:07	1
1-Methylnaphthalene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:07	1

Surrogate	% Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75	H3, RL4	50 - 120			12/10/10 11:58	12/13/10 17:07	1
2-Fluorophenol	58	H3, RL4	30 - 120			12/10/10 11:58	12/13/10 17:07	1
Nitrobenzene-d5	64	H3, RL4	45 - 120			12/10/10 11:58	12/13/10 17:07	1
Phenol-d6	59	H3, RL4	35 - 120			12/10/10 11:58	12/13/10 17:07	1
Terphenyl-d14	98	H3, RL4	50 - 125			12/10/10 11:58	12/13/10 17:07	1
2,4,6-Tribromophenol	76	H3, RL4	40 - 120			12/10/10 11:58	12/13/10 17:07	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	H4	0.106	0.0180	ug/L		12/09/10 13:48	12/10/10 18:45	1
4,4'-DDE	ND	H4	0.106	0.0275	ug/L		12/09/10 13:48	12/10/10 18:45	1
4,4'-DDT	ND	H4	0.106	0.0106	ug/L		12/09/10 13:48	12/10/10 18:45	1
Aldrin	ND	H4	0.106	0.0116	ug/L		12/09/10 13:48	12/10/10 18:45	1
alpha-BHC	ND	H4	0.0529	0.0159	ug/L		12/09/10 13:48	12/10/10 18:45	1
beta-BHC	ND	H4	0.0529	0.0212	ug/L		12/09/10 13:48	12/10/10 18:45	1
Chlordane	ND	H4	1.06	0.485	ug/L		12/09/10 13:48	12/10/10 18:45	1

# Analytical Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

**Client Sample ID: EB-101129**

**Lab Sample ID: HTL0037-03**

**Date Collected: 11/29/10 16:45**

**Matrix: Water - NonPotable**

**Date Received: 12/03/10 13:05**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	ND	H4	0.106	0.0243	ug/L		12/09/10 13:48	12/10/10 18:45	1
Dieldrin	ND	H4	0.106	0.0381	ug/L		12/09/10 13:48	12/10/10 18:45	1
Endosulfan I	ND	H4	0.0529	0.0106	ug/L		12/09/10 13:48	12/10/10 18:45	1
Endosulfan II	ND	H4	0.106	0.0190	ug/L		12/09/10 13:48	12/10/10 18:45	1
Endosulfan sulfate	ND	H4	0.106	0.0190	ug/L		12/09/10 13:48	12/10/10 18:45	1
Endrin	ND	H4	0.106	0.0116	ug/L		12/09/10 13:48	12/10/10 18:45	1
Endrin aldehyde	ND	H4	0.212	0.0698	ug/L		12/09/10 13:48	12/10/10 18:45	1
Endrin ketone	ND	H4	0.106	0.0349	ug/L		12/09/10 13:48	12/10/10 18:45	1
gamma-BHC (Lindane)	ND	H4 B	0.0529	0.00635	ug/L		12/09/10 13:48	12/10/10 18:45	1
Heptachlor	ND	H4	0.106	0.0116	ug/L		12/09/10 13:48	12/10/10 18:45	1
Heptachlor epoxide	ND	H4	0.0847	0.0423	ug/L		12/09/10 13:48	12/10/10 18:45	1
Methoxychlor	ND	H4 B	0.529	0.0106	ug/L		12/09/10 13:48	12/10/10 18:45	1
Toxaphene	ND	H4	5.29	5.29	ug/L		12/09/10 13:48	12/10/10 18:45	1
alpha-Chlordane	ND	H4	0.265	0.109	ug/L		12/09/10 13:48	12/10/10 18:45	1
gamma-Chlordane	ND	H4	0.423	0.105	ug/L		12/09/10 13:48	12/10/10 18:45	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Decachlorobiphenyl	24	H4 Z5	35 - 135				12/09/10 13:48	12/10/10 18:45	1
Tetrachloro-meta-xylene	60	H4	35 - 135				12/09/10 13:48	12/10/10 18:45	1

**Method: EPA 6010B - METALS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.010		mg/l		12/15/10 10:22	12/15/10 18:37	1
Barium	ND		0.010		mg/l		12/15/10 10:22	12/15/10 18:37	1
Cadmium	ND		0.0050		mg/l		12/15/10 10:22	12/15/10 18:37	1
Chromium	ND		0.0050		mg/l		12/15/10 10:22	12/17/10 14:49	1
Lead	ND		0.0050		mg/l		12/15/10 10:22	12/15/10 18:37	1
Selenium	ND		0.010		mg/l		12/15/10 10:22	12/15/10 18:37	1
Silver	ND		0.010		mg/l		12/15/10 10:22	12/15/10 18:37	1

**Method: EPA 7470 - Total Metals by EPA Method 6010/7471**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0800		0.0250	0.0119	ug/L		12/09/10 12:51	12/09/10 16:24	1

**Client Sample ID: FHMA-03**

**Lab Sample ID: HTL0037-04**

**Date Collected: 11/30/10 08:55**

**Matrix: Solid/Soil**

**Date Received: 12/03/10 13:05**

**Method: EPA 8270C - SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3546/8270C)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
Acenaphthylene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
Aniline	ND	RL1	2000		ug/kg		12/12/10 11:14	12/13/10 19:13	5
Anthracene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
Benzidine	ND	RL1	3100		ug/kg		12/12/10 11:14	12/13/10 19:13	5
Benzo(a)anthracene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
Benzo(a)pyrene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
Benzo(b)fluoranthene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
Benzo(g,h,i)perylene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
Benzo(k)fluoranthene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
Benzoic acid	ND	RL1	3900		ug/kg		12/12/10 11:14	12/13/10 19:13	5

# Analytical Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

**Client Sample ID: FHMA-03**

**Lab Sample ID: HTL0037-04**

**Date Collected: 11/30/10 08:55**

**Matrix: Solid/Soil**

**Date Received: 12/03/10 13:05**

**Method: EPA 8270C - SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3546/8270C) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzyl alcohol	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
4-Bromophenyl phenyl ether	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
Butyl benzyl phthalate	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
4-Chloro-3-methylphenol	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
4-Chloroaniline	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
Bis(2-chloroethoxy)methane	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
Bis(2-chloroethyl)ether	ND	RL1	810		ug/kg		12/12/10 11:14	12/13/10 19:13	5
Bis(2-chloroisopropyl)ether	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
2-Chloronaphthalene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
2-Chlorophenol	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
4-Chlorophenyl phenyl ether	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
Chrysene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
Dibenz(a,h)anthracene	ND	RL1	2000		ug/kg		12/12/10 11:14	12/13/10 19:13	5
Dibenzofuran	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
Di-n-butyl phthalate	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
1,2-Dichlorobenzene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
1,3-Dichlorobenzene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
1,4-Dichlorobenzene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
3,3'-Dichlorobenzidine	ND	RL1	3900		ug/kg		12/12/10 11:14	12/13/10 19:13	5
2,4-Dichlorophenol	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
Diethyl phthalate	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
2,4-Dimethylphenol	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
Dimethyl phthalate	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
4,6-Dinitro-2-methylphenol	ND	RL1	2000		ug/kg		12/12/10 11:14	12/13/10 19:13	5
2,4-Dinitrophenol	ND	RL1	3100		ug/kg		12/12/10 11:14	12/13/10 19:13	5
2,4-Dinitrotoluene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
2,6-Dinitrotoluene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
Di-n-octyl phthalate	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
1,2-Diphenylhydrazine/Azobenzene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
Fluoranthene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
Fluorene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
Hexachlorobenzene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
Hexachlorobutadiene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
Hexachlorocyclopentadiene	ND	RL1	3900		ug/kg		12/12/10 11:14	12/13/10 19:13	5
Hexachloroethane	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
Indeno(1,2,3-cd)pyrene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
Isophorone	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
2-Methylnaphthalene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
2-Methylphenol	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
Naphthalene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
2-Nitroaniline	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
3-Nitroaniline	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
4-Nitroaniline	ND	RL1	3900		ug/kg		12/12/10 11:14	12/13/10 19:13	5
Nitrobenzene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
2-Nitrophenol	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
4-Nitrophenol	ND	RL1	3900		ug/kg		12/12/10 11:14	12/13/10 19:13	5
N-Nitroso-di-n-propylamine	ND	RL1	1200		ug/kg		12/12/10 11:14	12/13/10 19:13	5
N-Nitrosodimethylamine	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
N-Nitrosodiphenylamine	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
Pentachlorophenol	ND	RL1	3900		ug/kg		12/12/10 11:14	12/13/10 19:13	5

# Analytical Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

**Client Sample ID: FHMA-03**

**Lab Sample ID: HTL0037-04**

**Date Collected: 11/30/10 08:55**

**Matrix: Solid/Soil**

**Date Received: 12/03/10 13:05**

**Method: EPA 8270C - SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3546/8270C) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
Phenol	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
Pyrene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
Pyridine	ND	RL1	950		ug/kg		12/12/10 11:14	12/13/10 19:13	5
1,2,4-Trichlorobenzene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
2,4,5-Trichlorophenol	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
2,4,6-Trichlorophenol	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:13	5
Acetophenone	ND	RL1	1700		ug/kg		12/12/10 11:14	12/13/10 19:13	5
4-Aminobiphenyl	ND	RL1	1900		ug/kg		12/12/10 11:14	12/13/10 19:13	5
1-Chloronaphthalene	ND	RL1	1700		ug/kg		12/12/10 11:14	12/13/10 19:13	5
Dibenz[a,j]acridine	ND	RL1	1700		ug/kg		12/12/10 11:14	12/13/10 19:13	5
2,6-Dichlorophenol	ND	RL1	2100		ug/kg		12/12/10 11:14	12/13/10 19:13	5
Dimethylaminoazobenzene	ND	RL1	1900		ug/kg		12/12/10 11:14	12/13/10 19:13	5
7,12-Dimethylbenz[a]anthracene	ND	RL1	1900		ug/kg		12/12/10 11:14	12/13/10 19:13	5
a,a-Dimethylphenethylamine	ND	RL1	19000		ug/kg		12/12/10 11:14	12/13/10 19:13	5
Ethyl methanesulfonate	ND	RL1	1700		ug/kg		12/12/10 11:14	12/13/10 19:13	5
1-Methylnaphthalene	ND	RL1	1700		ug/kg		12/12/10 11:14	12/13/10 19:13	5
3-Methylcholanthrene	ND	RL1	1700		ug/kg		12/12/10 11:14	12/13/10 19:13	5
Methyl methanesulfonate	ND	RL1	1200		ug/kg		12/12/10 11:14	12/13/10 19:13	5
1-Naphthylamine	ND	RL1	2400		ug/kg		12/12/10 11:14	12/13/10 19:13	5
2-Naphthylamine	ND	RL1	2400		ug/kg		12/12/10 11:14	12/13/10 19:13	5
N-Nitrosodi-n-butylamine	ND	RL1	1900		ug/kg		12/12/10 11:14	12/13/10 19:13	5
N-Nitrosopiperidine	ND	RL1	1400		ug/kg		12/12/10 11:14	12/13/10 19:13	5
Pentachloronitrobenzene	ND	RL1	2400		ug/kg		12/12/10 11:14	12/13/10 19:13	5
Phenacetin	ND	RL1	1700		ug/kg		12/12/10 11:14	12/13/10 19:13	5
2-Picoline	ND	RL1	1400		ug/kg		12/12/10 11:14	12/13/10 19:13	5
Pronamide	ND	RL1	2100		ug/kg		12/12/10 11:14	12/13/10 19:13	5
1,2,4,5-Tetrachlorobenzene	ND	RL1	1700		ug/kg		12/12/10 11:14	12/13/10 19:13	5
2,3,4,6-Tetrachlorophenol	ND	RL1	1700		ug/kg		12/12/10 11:14	12/13/10 19:13	5

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	47	RL1	35 - 125	12/12/10 11:14	12/13/10 19:13	5
2-Fluorobiphenyl	56	RL1	35 - 120	12/12/10 11:14	12/13/10 19:13	5
2-Fluorophenol	45	RL1	25 - 120	12/12/10 11:14	12/13/10 19:13	5
Nitrobenzene-d5	45	RL1	30 - 120	12/12/10 11:14	12/13/10 19:13	5
Phenol-d6	49	RL1	35 - 120	12/12/10 11:14	12/13/10 19:13	5
Terphenyl-d14	75	RL1	40 - 135	12/12/10 11:14	12/13/10 19:13	5

**Method: EPA 8081 - Organochlorine Pesticides by EPA Method 8081**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.00392	0.00108	mg/kg		12/09/10 09:26	12/10/10 21:21	1
4,4'-DDE	ND		0.00392	0.000980	mg/kg		12/09/10 09:26	12/10/10 21:21	1
4,4'-DDT	ND		0.00392	0.000686	mg/kg		12/09/10 09:26	12/10/10 21:21	1
Aldrin	ND		0.00392	0.00147	mg/kg		12/09/10 09:26	12/10/10 21:21	1
alpha-BHC	ND		0.00392	0.00176	mg/kg		12/09/10 09:26	12/10/10 21:21	1
beta-BHC	ND		0.00392	0.00167	mg/kg		12/09/10 09:26	12/10/10 21:21	1
Chlordane	0.0234	R1, J	0.0324	0.0137	mg/kg		12/09/10 09:26	12/10/10 21:21	1
delta-BHC	ND		0.00392	0.00157	mg/kg		12/09/10 09:26	12/10/10 21:21	1
Dieldrin	ND		0.00392	0.00137	mg/kg		12/09/10 09:26	12/10/10 21:21	1
Endosulfan I	ND		0.00392	0.00147	mg/kg		12/09/10 09:26	12/10/10 21:21	1
Endosulfan II	ND		0.00392	0.000784	mg/kg		12/09/10 09:26	12/10/10 21:21	1

# Analytical Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

**Client Sample ID: FHMA-03**

**Lab Sample ID: HTL0037-04**

**Date Collected: 11/30/10 08:55**

**Matrix: Solid/Soil**

**Date Received: 12/03/10 13:05**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan sulfate	ND		0.00392	0.000980	mg/kg		12/09/10 09:26	12/10/10 21:21	1
Endrin	ND		0.00392	0.000980	mg/kg		12/09/10 09:26	12/10/10 21:21	1
<b>Endrin aldehyde</b>	<b>0.00288</b>	<b>R1, J</b>	0.00392	0.000686	mg/kg		12/09/10 09:26	12/10/10 21:21	1
<b>Endrin ketone</b>	<b>0.00438</b>	<b>R1</b>	0.00392	0.00167	mg/kg		12/09/10 09:26	12/10/10 21:21	1
gamma-BHC (Lindane)	ND		0.00392	0.00118	mg/kg		12/09/10 09:26	12/10/10 21:21	1
Heptachlor	ND		0.00392	0.00137	mg/kg		12/09/10 09:26	12/10/10 21:21	1
Heptachlor epoxide	ND		0.00392	0.00108	mg/kg		12/09/10 09:26	12/10/10 21:21	1
Methoxychlor	ND	B	0.0196	0.00137	mg/kg		12/09/10 09:26	12/10/10 21:21	1
Toxaphene	ND		0.0490	0.0490	mg/kg		12/09/10 09:26	12/10/10 21:21	1
alpha-Chlordane	ND		0.00392	0.00176	mg/kg		12/09/10 09:26	12/10/10 21:21	1
<b>gamma-Chlordane</b>	<b>0.00663</b>		0.00392	0.000980	mg/kg		12/09/10 09:26	12/10/10 21:21	1
<b>Surrogate</b>	<b>% Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Decachlorobiphenyl	170	Z5, R1	45 - 120				12/09/10 09:26	12/10/10 21:21	1
Tetrachloro-meta-xylene	66		50 - 120				12/09/10 09:26	12/10/10 21:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>16.8</b>		10.1	0.0804	mg/kg		12/14/10 12:01	12/17/10 16:54	1
<b>Barium</b>	<b>24.9</b>		20.1	0.0844	mg/kg		12/14/10 12:01	12/17/10 16:54	1
<b>Cadmium</b>	<b>0.611</b>	<b>J</b>	4.02	0.0814	mg/kg		12/14/10 12:01	12/17/10 16:54	1
<b>Chromium</b>	<b>147</b>		10.1	0.0734	mg/kg		12/14/10 12:01	12/17/10 16:54	1
<b>Lead</b>	<b>16.0</b>	<b>J</b>	20.1	0.0704	mg/kg		12/14/10 12:01	12/17/10 16:54	1
<b>Selenium</b>	<b>1.58</b>	<b>J</b>	20.1	0.0905	mg/kg		12/14/10 12:01	12/17/10 16:54	1
Silver	ND		10.1	0.00704	mg/kg		12/14/10 12:01	12/17/10 16:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.0465</b>		0.00467	0.0000935	mg/kg		12/20/10 09:29	12/20/10 16:45	1

**Client Sample ID: FHMA-04**

**Lab Sample ID: HTL0037-05**

**Date Collected: 11/30/10 10:30**

**Matrix: Solid/Soil**

**Date Received: 12/03/10 13:05**

**Method: EPA 8270C - SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3546/8270C)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
Acenaphthylene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
Aniline	ND	RL1	2000		ug/kg		12/12/10 11:14	12/13/10 19:34	5
Anthracene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
Benzidine	ND	RL1	3100		ug/kg		12/12/10 11:14	12/13/10 19:34	5
Benzo(a)anthracene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
Benzo(a)pyrene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
Benzo(b)fluoranthene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
Benzo(g,h,i)perylene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
Benzo(k)fluoranthene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
Benzoic acid	ND	RL1	3900		ug/kg		12/12/10 11:14	12/13/10 19:34	5
Benzyl alcohol	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
4-Bromophenyl phenyl ether	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
Butyl benzyl phthalate	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
4-Chloro-3-methylphenol	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5

# Analytical Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

**Client Sample ID: FHMA-04**  
**Date Collected: 11/30/10 10:30**  
**Date Received: 12/03/10 13:05**

**Lab Sample ID: HTL0037-05**  
**Matrix: Solid/Soil**

**Method: EPA 8270C - SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3546/8270C) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
Bis(2-chloroethoxy)methane	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
Bis(2-chloroethyl)ether	ND	RL1	800		ug/kg		12/12/10 11:14	12/13/10 19:34	5
Bis(2-chloroisopropyl)ether	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
2-Chloronaphthalene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
2-Chlorophenol	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
4-Chlorophenyl phenyl ether	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
Chrysene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
Dibenz(a,h)anthracene	ND	RL1	2000		ug/kg		12/12/10 11:14	12/13/10 19:34	5
Dibenzofuran	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
Di-n-butyl phthalate	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
1,2-Dichlorobenzene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
1,3-Dichlorobenzene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
1,4-Dichlorobenzene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
3,3'-Dichlorobenzidine	ND	RL1	3900		ug/kg		12/12/10 11:14	12/13/10 19:34	5
2,4-Dichlorophenol	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
Diethyl phthalate	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
2,4-Dimethylphenol	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
Dimethyl phthalate	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
4,6-Dinitro-2-methylphenol	ND	RL1	2000		ug/kg		12/12/10 11:14	12/13/10 19:34	5
2,4-Dinitrophenol	ND	RL1	3100		ug/kg		12/12/10 11:14	12/13/10 19:34	5
2,4-Dinitrotoluene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
2,6-Dinitrotoluene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
Di-n-octyl phthalate	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
1,2-Diphenylhydrazine/Azobenzene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
Fluoranthene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
Fluorene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
Hexachlorobenzene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
Hexachlorobutadiene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
Hexachlorocyclopentadiene	ND	RL1	3900		ug/kg		12/12/10 11:14	12/13/10 19:34	5
Hexachloroethane	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
Indeno(1,2,3-cd)pyrene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
Isophorone	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
2-Methylnaphthalene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
2-Methylphenol	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
Naphthalene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
2-Nitroaniline	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
3-Nitroaniline	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
4-Nitroaniline	ND	RL1	3900		ug/kg		12/12/10 11:14	12/13/10 19:34	5
Nitrobenzene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
2-Nitrophenol	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
4-Nitrophenol	ND	RL1	3900		ug/kg		12/12/10 11:14	12/13/10 19:34	5
N-Nitroso-di-n-propylamine	ND	RL1	1200		ug/kg		12/12/10 11:14	12/13/10 19:34	5
N-Nitrosodimethylamine	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
N-Nitrosodiphenylamine	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
Pentachlorophenol	ND	RL1	3900		ug/kg		12/12/10 11:14	12/13/10 19:34	5
Phenanthrene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
Phenol	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
Pyrene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
Pyridine	ND	RL1	940		ug/kg		12/12/10 11:14	12/13/10 19:34	5

# Analytical Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

**Client Sample ID: FHMA-04**

**Lab Sample ID: HTL0037-05**

**Date Collected: 11/30/10 10:30**

**Matrix: Solid/Soil**

**Date Received: 12/03/10 13:05**

**Method: EPA 8270C - SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3546/8270C) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
2,4,5-Trichlorophenol	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
2,4,6-Trichlorophenol	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
Acetophenone	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
4-Aminobiphenyl	ND	RL1	1900		ug/kg		12/12/10 11:14	12/13/10 19:34	5
1-Chloronaphthalene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
Dibenz[a,j]acridine	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
2,6-Dichlorophenol	ND	RL1	2100		ug/kg		12/12/10 11:14	12/13/10 19:34	5
Dimethylaminoazobenzene	ND	RL1	1900		ug/kg		12/12/10 11:14	12/13/10 19:34	5
7,12-Dimethylbenz[a]anthracene	ND	RL1	1900		ug/kg		12/12/10 11:14	12/13/10 19:34	5
a,a-Dimethylphenethylamine	ND	RL1	19000		ug/kg		12/12/10 11:14	12/13/10 19:34	5
Ethyl methanesulfonate	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
1-Methylnaphthalene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
3-Methylcholanthrene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
Methyl methanesulfonate	ND	RL1	1200		ug/kg		12/12/10 11:14	12/13/10 19:34	5
1-Naphthylamine	ND	RL1	2400		ug/kg		12/12/10 11:14	12/13/10 19:34	5
2-Naphthylamine	ND	RL1	2400		ug/kg		12/12/10 11:14	12/13/10 19:34	5
N-Nitrosodi-n-butylamine	ND	RL1	1900		ug/kg		12/12/10 11:14	12/13/10 19:34	5
N-Nitrosopiperidine	ND	RL1	1400		ug/kg		12/12/10 11:14	12/13/10 19:34	5
Pentachloronitrobenzene	ND	RL1	2400		ug/kg		12/12/10 11:14	12/13/10 19:34	5
Phenacetin	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
2-Picoline	ND	RL1	1400		ug/kg		12/12/10 11:14	12/13/10 19:34	5
Pronamide	ND	RL1	2100		ug/kg		12/12/10 11:14	12/13/10 19:34	5
1,2,4,5-Tetrachlorobenzene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5
2,3,4,6-Tetrachlorophenol	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:34	5

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	52	RL1	35 - 125	12/12/10 11:14	12/13/10 19:34	5
2-Fluorobiphenyl	56	RL1	35 - 120	12/12/10 11:14	12/13/10 19:34	5
2-Fluorophenol	49	RL1	25 - 120	12/12/10 11:14	12/13/10 19:34	5
Nitrobenzene-d5	43	RL1	30 - 120	12/12/10 11:14	12/13/10 19:34	5
Phenol-d6	53	RL1	35 - 120	12/12/10 11:14	12/13/10 19:34	5
Terphenyl-d14	79	RL1	40 - 135	12/12/10 11:14	12/13/10 19:34	5

**Method: EPA 8081 - Organochlorine Pesticides by EPA Method 8081**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.00395	0.00109	mg/kg		12/09/10 09:26	12/10/10 21:40	1
4,4'-DDE	ND		0.00395	0.000987	mg/kg		12/09/10 09:26	12/10/10 21:40	1
4,4'-DDT	ND		0.00395	0.000691	mg/kg		12/09/10 09:26	12/10/10 21:40	1
Aldrin	ND		0.00395	0.00148	mg/kg		12/09/10 09:26	12/10/10 21:40	1
alpha-BHC	ND		0.00395	0.00178	mg/kg		12/09/10 09:26	12/10/10 21:40	1
beta-BHC	ND		0.00395	0.00168	mg/kg		12/09/10 09:26	12/10/10 21:40	1
Chlordane	ND		0.0326	0.0138	mg/kg		12/09/10 09:26	12/10/10 21:40	1
delta-BHC	ND		0.00395	0.00158	mg/kg		12/09/10 09:26	12/10/10 21:40	1
Dieldrin	ND		0.00395	0.00138	mg/kg		12/09/10 09:26	12/10/10 21:40	1
Endosulfan I	ND		0.00395	0.00148	mg/kg		12/09/10 09:26	12/10/10 21:40	1
Endosulfan II	ND		0.00395	0.000789	mg/kg		12/09/10 09:26	12/10/10 21:40	1
Endosulfan sulfate	ND		0.00395	0.000987	mg/kg		12/09/10 09:26	12/10/10 21:40	1
Endrin	ND		0.00395	0.000987	mg/kg		12/09/10 09:26	12/10/10 21:40	1
Endrin aldehyde	ND		0.00395	0.000691	mg/kg		12/09/10 09:26	12/10/10 21:40	1
Endrin ketone	ND		0.00395	0.00168	mg/kg		12/09/10 09:26	12/10/10 21:40	1

# Analytical Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

**Client Sample ID: FHMA-04**

**Lab Sample ID: HTL0037-05**

**Date Collected: 11/30/10 10:30**

**Matrix: Solid/Soil**

**Date Received: 12/03/10 13:05**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	ND		0.00395	0.00118	mg/kg		12/09/10 09:26	12/10/10 21:40	1
Heptachlor	ND		0.00395	0.00138	mg/kg		12/09/10 09:26	12/10/10 21:40	1
Heptachlor epoxide	ND		0.00395	0.00109	mg/kg		12/09/10 09:26	12/10/10 21:40	1
Methoxychlor	ND	B	0.0197	0.00138	mg/kg		12/09/10 09:26	12/10/10 21:40	1
Toxaphene	ND		0.0493	0.0493	mg/kg		12/09/10 09:26	12/10/10 21:40	1
alpha-Chlordane	ND		0.00395	0.00178	mg/kg		12/09/10 09:26	12/10/10 21:40	1
gamma-Chlordane	ND		0.00395	0.000987	mg/kg		12/09/10 09:26	12/10/10 21:40	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Decachlorobiphenyl	112		45 - 120	12/09/10 09:26	12/10/10 21:40	1
Tetrachloro-meta-xylene	68		50 - 120	12/09/10 09:26	12/10/10 21:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	12.2		9.63	0.0771	mg/kg		12/14/10 12:01	12/17/10 16:59	1
Barium	23.9		19.3	0.0809	mg/kg		12/14/10 12:01	12/17/10 16:59	1
Cadmium	0.317	J	3.85	0.0780	mg/kg		12/14/10 12:01	12/17/10 16:59	1
Chromium	78.8		9.63	0.0703	mg/kg		12/14/10 12:01	12/17/10 16:59	1
Lead	3.00	J	19.3	0.0674	mg/kg		12/14/10 12:01	12/17/10 16:59	1
Selenium	3.25	J	19.3	0.0867	mg/kg		12/14/10 12:01	12/17/10 16:59	1
Silver	ND		9.63	0.00674	mg/kg		12/14/10 12:01	12/17/10 16:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0182		0.00496	0.0000992	mg/kg		12/20/10 09:29	12/20/10 16:36	1

**Client Sample ID: FHMA-05**

**Lab Sample ID: HTL0037-06**

**Date Collected: 11/30/10 11:55**

**Matrix: Solid/Soil**

**Date Received: 12/03/10 13:05**

**Method: EPA 8270C - SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3546/8270C)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
Acenaphthylene	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
Aniline	ND	RL1	830		ug/kg		12/12/10 11:14	12/13/10 19:55	2
Anthracene	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
Benzidine	ND	RL1	1300		ug/kg		12/12/10 11:14	12/13/10 19:55	2
Benzo(a)anthracene	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
Benzo(a)pyrene	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
Benzo(b)fluoranthene	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
Benzo(g,h,i)perylene	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
Benzo(k)fluoranthene	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
Benzoic acid	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:55	2
Benzyl alcohol	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
4-Bromophenyl phenyl ether	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
Butyl benzyl phthalate	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
4-Chloro-3-methylphenol	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
4-Chloroaniline	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
Bis(2-chloroethoxy)methane	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
Bis(2-chloroethyl)ether	ND	RL1	340		ug/kg		12/12/10 11:14	12/13/10 19:55	2
Bis(2-chloroisopropyl)ether	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2

# Analytical Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

**Client Sample ID: FHMA-05**

**Lab Sample ID: HTL0037-06**

**Date Collected: 11/30/10 11:55**

**Matrix: Solid/Soil**

**Date Received: 12/03/10 13:05**

**Method: EPA 8270C - SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3546/8270C) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
2-Chlorophenol	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
4-Chlorophenyl phenyl ether	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
Chrysene	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
Dibenz(a,h)anthracene	ND	RL1	830		ug/kg		12/12/10 11:14	12/13/10 19:55	2
Dibenzofuran	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
Di-n-butyl phthalate	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
1,2-Dichlorobenzene	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
1,3-Dichlorobenzene	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
1,4-Dichlorobenzene	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
3,3'-Dichlorobenzidine	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:55	2
2,4-Dichlorophenol	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
Diethyl phthalate	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
2,4-Dimethylphenol	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
Dimethyl phthalate	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
4,6-Dinitro-2-methylphenol	ND	RL1	830		ug/kg		12/12/10 11:14	12/13/10 19:55	2
2,4-Dinitrophenol	ND	RL1	1300		ug/kg		12/12/10 11:14	12/13/10 19:55	2
2,4-Dinitrotoluene	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
2,6-Dinitrotoluene	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
Di-n-octyl phthalate	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
1,2-Diphenylhydrazine/Azobenzene	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
Fluoranthene	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
Fluorene	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
Hexachlorobenzene	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
Hexachlorobutadiene	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
Hexachlorocyclopentadiene	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:55	2
Hexachloroethane	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
Indeno(1,2,3-cd)pyrene	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
Isophorone	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
2-Methylnaphthalene	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
2-Methylphenol	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
Naphthalene	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
2-Nitroaniline	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
3-Nitroaniline	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
4-Nitroaniline	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:55	2
Nitrobenzene	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
2-Nitrophenol	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
4-Nitrophenol	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:55	2
N-Nitroso-di-n-propylamine	ND	RL1	490		ug/kg		12/12/10 11:14	12/13/10 19:55	2
N-Nitrosodimethylamine	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
N-Nitrosodiphenylamine	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
Pentachlorophenol	ND	RL1	1600		ug/kg		12/12/10 11:14	12/13/10 19:55	2
Phenanthrene	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
Phenol	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
Pyrene	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
Pyridine	ND	RL1	390		ug/kg		12/12/10 11:14	12/13/10 19:55	2
1,2,4-Trichlorobenzene	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
2,4,5-Trichlorophenol	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
2,4,6-Trichlorophenol	ND	RL1	650		ug/kg		12/12/10 11:14	12/13/10 19:55	2
Acetophenone	ND	RL1	690		ug/kg		12/12/10 11:14	12/13/10 19:55	2

# Analytical Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

**Client Sample ID: FHMA-05**

**Lab Sample ID: HTL0037-06**

**Date Collected: 11/30/10 11:55**

**Matrix: Solid/Soil**

**Date Received: 12/03/10 13:05**

**Method: EPA 8270C - SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3546/8270C) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Aminobiphenyl	ND	RL1	790		ug/kg		12/12/10 11:14	12/13/10 19:55	2
1-Chloronaphthalene	ND	RL1	690		ug/kg		12/12/10 11:14	12/13/10 19:55	2
Dibenz[a,j]acridine	ND	RL1	690		ug/kg		12/12/10 11:14	12/13/10 19:55	2
2,6-Dichlorophenol	ND	RL1	890		ug/kg		12/12/10 11:14	12/13/10 19:55	2
Dimethylaminoazobenzene	ND	RL1	790		ug/kg		12/12/10 11:14	12/13/10 19:55	2
7,12-Dimethylbenz[a]anthracene	ND	RL1	790		ug/kg		12/12/10 11:14	12/13/10 19:55	2
a,a-Dimethylphenethylamine	ND	RL1	7900		ug/kg		12/12/10 11:14	12/13/10 19:55	2
Ethyl methanesulfonate	ND	RL1	690		ug/kg		12/12/10 11:14	12/13/10 19:55	2
1-Methylnaphthalene	ND	RL1	690		ug/kg		12/12/10 11:14	12/13/10 19:55	2
3-Methylcholanthrene	ND	RL1	690		ug/kg		12/12/10 11:14	12/13/10 19:55	2
Methyl methanesulfonate	ND	RL1	490		ug/kg		12/12/10 11:14	12/13/10 19:55	2
1-Naphthylamine	ND	RL1	990		ug/kg		12/12/10 11:14	12/13/10 19:55	2
2-Naphthylamine	ND	RL1	990		ug/kg		12/12/10 11:14	12/13/10 19:55	2
N-Nitrosodi-n-butylamine	ND	RL1	790		ug/kg		12/12/10 11:14	12/13/10 19:55	2
N-Nitrosopiperidine	ND	RL1	590		ug/kg		12/12/10 11:14	12/13/10 19:55	2
Pentachloronitrobenzene	ND	RL1	990		ug/kg		12/12/10 11:14	12/13/10 19:55	2
Phenacetin	ND	RL1	690		ug/kg		12/12/10 11:14	12/13/10 19:55	2
2-Picoline	ND	RL1	590		ug/kg		12/12/10 11:14	12/13/10 19:55	2
Pronamide	ND	RL1	890		ug/kg		12/12/10 11:14	12/13/10 19:55	2
1,2,4,5-Tetrachlorobenzene	ND	RL1	690		ug/kg		12/12/10 11:14	12/13/10 19:55	2
2,3,4,6-Tetrachlorophenol	ND	RL1	690		ug/kg		12/12/10 11:14	12/13/10 19:55	2

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	67	RL1	35 - 125	12/12/10 11:14	12/13/10 19:55	2
2-Fluorobiphenyl	66	RL1	35 - 120	12/12/10 11:14	12/13/10 19:55	2
2-Fluorophenol	55	RL1	25 - 120	12/12/10 11:14	12/13/10 19:55	2
Nitrobenzene-d5	50	RL1	30 - 120	12/12/10 11:14	12/13/10 19:55	2
Phenol-d6	58	RL1	35 - 120	12/12/10 11:14	12/13/10 19:55	2
Terphenyl-d14	89	RL1	40 - 135	12/12/10 11:14	12/13/10 19:55	2

**Method: EPA 8081 - Organochlorine Pesticides by EPA Method 8081**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.00386	0.00106	mg/kg		12/09/10 09:26	12/10/10 22:00	1
4,4'-DDE	ND		0.00386	0.000965	mg/kg		12/09/10 09:26	12/10/10 22:00	1
<b>4,4'-DDT</b>	<b>0.00347</b>	<b>R1, J</b>	0.00386	0.000675	mg/kg		12/09/10 09:26	12/10/10 22:00	1
Aldrin	ND		0.00386	0.00145	mg/kg		12/09/10 09:26	12/10/10 22:00	1
alpha-BHC	ND		0.00386	0.00174	mg/kg		12/09/10 09:26	12/10/10 22:00	1
beta-BHC	ND		0.00386	0.00164	mg/kg		12/09/10 09:26	12/10/10 22:00	1
Chlordane	ND		0.0318	0.0135	mg/kg		12/09/10 09:26	12/10/10 22:00	1
delta-BHC	ND		0.00386	0.00154	mg/kg		12/09/10 09:26	12/10/10 22:00	1
Dieldrin	ND		0.00386	0.00135	mg/kg		12/09/10 09:26	12/10/10 22:00	1
Endosulfan I	ND		0.00386	0.00145	mg/kg		12/09/10 09:26	12/10/10 22:00	1
Endosulfan II	ND		0.00386	0.000772	mg/kg		12/09/10 09:26	12/10/10 22:00	1
Endosulfan sulfate	ND		0.00386	0.000965	mg/kg		12/09/10 09:26	12/10/10 22:00	1
Endrin	ND		0.00386	0.000965	mg/kg		12/09/10 09:26	12/10/10 22:00	1
Endrin aldehyde	ND		0.00386	0.000675	mg/kg		12/09/10 09:26	12/10/10 22:00	1
Endrin ketone	ND		0.00386	0.00164	mg/kg		12/09/10 09:26	12/10/10 22:00	1
gamma-BHC (Lindane)	ND		0.00386	0.00116	mg/kg		12/09/10 09:26	12/10/10 22:00	1
Heptachlor	ND		0.00386	0.00135	mg/kg		12/09/10 09:26	12/10/10 22:00	1
Heptachlor epoxide	ND		0.00386	0.00106	mg/kg		12/09/10 09:26	12/10/10 22:00	1
Methoxychlor	ND	B	0.0193	0.00135	mg/kg		12/09/10 09:26	12/10/10 22:00	1

# Analytical Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

**Client Sample ID: FHMA-05**

**Lab Sample ID: HTL0037-06**

**Date Collected: 11/30/10 11:55**

**Matrix: Solid/Soil**

**Date Received: 12/03/10 13:05**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	ND		0.0482	0.0482	mg/kg		12/09/10 09:26	12/10/10 22:00	1
alpha-Chlordane	ND		0.00386	0.00174	mg/kg		12/09/10 09:26	12/10/10 22:00	1
gamma-Chlordane	ND		0.00386	0.000965	mg/kg		12/09/10 09:26	12/10/10 22:00	1
<b>Surrogate</b>	<b>% Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Decachlorobiphenyl	118	R1	45 - 120				12/09/10 09:26	12/10/10 22:00	1
Tetrachloro-meta-xylene	61		50 - 120				12/09/10 09:26	12/10/10 22:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>97.5</b>		9.29	0.0743	mg/kg		12/14/10 12:01	12/17/10 17:04	1
<b>Barium</b>	<b>23.4</b>		18.6	0.0781	mg/kg		12/14/10 12:01	12/17/10 17:04	1
<b>Cadmium</b>	<b>0.388</b>	<b>J</b>	3.72	0.0753	mg/kg		12/14/10 12:01	12/17/10 17:04	1
<b>Chromium</b>	<b>69.0</b>		9.29	0.0678	mg/kg		12/14/10 12:01	12/17/10 17:04	1
<b>Lead</b>	<b>25.9</b>		18.6	0.0651	mg/kg		12/14/10 12:01	12/17/10 17:04	1
<b>Selenium</b>	<b>3.25</b>	<b>J</b>	18.6	0.0836	mg/kg		12/14/10 12:01	12/17/10 17:04	1
<b>Silver</b>	<b>0.110</b>	<b>J</b>	9.29	0.00651	mg/kg		12/14/10 12:01	12/21/10 14:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.120</b>		0.00462	0.0000924	mg/kg		12/20/10 09:29	12/20/10 16:46	1

**Client Sample ID: FHMA-06**

**Lab Sample ID: HTL0037-07**

**Date Collected: 11/30/10 15:10**

**Matrix: Solid/Soil**

**Date Received: 12/03/10 13:05**

**Method: EPA 8270C - SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3546/8270C)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
Acenaphthylene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
Aniline	ND	RL1	4900		ug/kg		12/12/10 11:14	12/13/10 20:16	5
Anthracene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
Benzidine	ND	RL1	7600		ug/kg		12/12/10 11:14	12/13/10 20:16	5
Benzo(a)anthracene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
Benzo(a)pyrene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
Benzo(b)fluoranthene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
Benzo(g,h,i)perylene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
Benzo(k)fluoranthene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
Benzoic acid	ND	RL1	9600		ug/kg		12/12/10 11:14	12/13/10 20:16	5
Benzyl alcohol	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
4-Bromophenyl phenyl ether	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
Butyl benzyl phthalate	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
4-Chloro-3-methylphenol	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
4-Chloroaniline	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
Bis(2-chloroethoxy)methane	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
Bis(2-chloroethyl)ether	ND	RL1	2000		ug/kg		12/12/10 11:14	12/13/10 20:16	5
Bis(2-chloroisopropyl)ether	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
2-Chloronaphthalene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
2-Chlorophenol	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
4-Chlorophenyl phenyl ether	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
Chrysene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5

# Analytical Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

**Client Sample ID: FHMA-06**

**Lab Sample ID: HTL0037-07**

**Date Collected: 11/30/10 15:10**

**Matrix: Solid/Soil**

**Date Received: 12/03/10 13:05**

**Method: EPA 8270C - SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3546/8270C) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND	RL1	4900		ug/kg		12/12/10 11:14	12/13/10 20:16	5
Dibenzofuran	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
Di-n-butyl phthalate	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
1,2-Dichlorobenzene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
1,3-Dichlorobenzene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
1,4-Dichlorobenzene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
3,3'-Dichlorobenzidine	ND	RL1	9600		ug/kg		12/12/10 11:14	12/13/10 20:16	5
2,4-Dichlorophenol	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
Diethyl phthalate	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
2,4-Dimethylphenol	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
Dimethyl phthalate	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
4,6-Dinitro-2-methylphenol	ND	RL1	4900		ug/kg		12/12/10 11:14	12/13/10 20:16	5
2,4-Dinitrophenol	ND	RL1	7600		ug/kg		12/12/10 11:14	12/13/10 20:16	5
2,4-Dinitrotoluene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
2,6-Dinitrotoluene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
Di-n-octyl phthalate	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
1,2-Diphenylhydrazine/Azobenzene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
Fluoranthene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
Fluorene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
Hexachlorobenzene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
Hexachlorobutadiene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
Hexachlorocyclopentadiene	ND	RL1	9600		ug/kg		12/12/10 11:14	12/13/10 20:16	5
Hexachloroethane	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
Indeno(1,2,3-cd)pyrene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
Isophorone	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
2-Methylnaphthalene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
2-Methylphenol	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
Naphthalene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
2-Nitroaniline	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
3-Nitroaniline	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
4-Nitroaniline	ND	RL1	9600		ug/kg		12/12/10 11:14	12/13/10 20:16	5
Nitrobenzene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
2-Nitrophenol	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
4-Nitrophenol	ND	RL1	9600		ug/kg		12/12/10 11:14	12/13/10 20:16	5
N-Nitroso-di-n-propylamine	ND	RL1	2900		ug/kg		12/12/10 11:14	12/13/10 20:16	5
N-Nitrosodimethylamine	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
N-Nitrosodiphenylamine	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
Pentachlorophenol	ND	RL1	9600		ug/kg		12/12/10 11:14	12/13/10 20:16	5
Phenanthrene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
Phenol	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
Pyrene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
Pyridine	ND	RL1	2300		ug/kg		12/12/10 11:14	12/13/10 20:16	5
1,2,4-Trichlorobenzene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
2,4,5-Trichlorophenol	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
2,4,6-Trichlorophenol	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
Acetophenone	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:16	5
4-Aminobiphenyl	ND	RL1	4600		ug/kg		12/12/10 11:14	12/13/10 20:16	5
1-Chloronaphthalene	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:16	5
Dibenz[a,j]acridine	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:16	5
2,6-Dichlorophenol	ND	RL1	5200		ug/kg		12/12/10 11:14	12/13/10 20:16	5

# Analytical Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

**Client Sample ID: FHMA-06**

**Lab Sample ID: HTL0037-07**

**Date Collected: 11/30/10 15:10**

**Matrix: Solid/Soil**

**Date Received: 12/03/10 13:05**

**Method: EPA 8270C - SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3546/8270C) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethylaminoazobenzene	ND	RL1	4600		ug/kg		12/12/10 11:14	12/13/10 20:16	5
7,12-Dimethylbenz[a]anthracene	ND	RL1	4600		ug/kg		12/12/10 11:14	12/13/10 20:16	5
a,a-Dimethylphenethylamine	ND	RL1	46000		ug/kg		12/12/10 11:14	12/13/10 20:16	5
Ethyl methanesulfonate	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:16	5
1-Methylnaphthalene	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:16	5
3-Methylcholanthrene	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:16	5
Methyl methanesulfonate	ND	RL1	2900		ug/kg		12/12/10 11:14	12/13/10 20:16	5
1-Naphthylamine	ND	RL1	5800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
2-Naphthylamine	ND	RL1	5800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
N-Nitrosodi-n-butylamine	ND	RL1	4600		ug/kg		12/12/10 11:14	12/13/10 20:16	5
N-Nitrosopiperidine	ND	RL1	3500		ug/kg		12/12/10 11:14	12/13/10 20:16	5
Pentachloronitrobenzene	ND	RL1	5800		ug/kg		12/12/10 11:14	12/13/10 20:16	5
Phenacetin	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:16	5
2-Picoline	ND	RL1	3500		ug/kg		12/12/10 11:14	12/13/10 20:16	5
Pronamide	ND	RL1	5200		ug/kg		12/12/10 11:14	12/13/10 20:16	5
1,2,4,5-Tetrachlorobenzene	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:16	5
2,3,4,6-Tetrachlorophenol	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:16	5

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	62	RL1 Z3	35 - 125	12/12/10 11:14	12/13/10 20:16	5
2-Fluorobiphenyl	73	RL1 Z3	35 - 120	12/12/10 11:14	12/13/10 20:16	5
2-Fluorophenol	61	RL1 Z3	25 - 120	12/12/10 11:14	12/13/10 20:16	5
Nitrobenzene-d5	54	RL1 Z3	30 - 120	12/12/10 11:14	12/13/10 20:16	5
Phenol-d6	65	RL1 Z3	35 - 120	12/12/10 11:14	12/13/10 20:16	5
Terphenyl-d14	100	RL1 Z3	40 - 135	12/12/10 11:14	12/13/10 20:16	5

**Method: EPA 8081 - Organochlorine Pesticides by EPA Method 8081**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.00395	0.00109	mg/kg		12/09/10 09:26	12/10/10 22:19	1
4,4'-DDE	ND		0.00395	0.000987	mg/kg		12/09/10 09:26	12/10/10 22:19	1
4,4'-DDT	ND		0.00395	0.000691	mg/kg		12/09/10 09:26	12/10/10 22:19	1
Aldrin	ND		0.00395	0.00148	mg/kg		12/09/10 09:26	12/10/10 22:19	1
alpha-BHC	ND		0.00395	0.00178	mg/kg		12/09/10 09:26	12/10/10 22:19	1
beta-BHC	ND		0.00395	0.00168	mg/kg		12/09/10 09:26	12/10/10 22:19	1
Chlordane	ND		0.0326	0.0138	mg/kg		12/09/10 09:26	12/10/10 22:19	1
delta-BHC	ND		0.00395	0.00158	mg/kg		12/09/10 09:26	12/10/10 22:19	1
Dieldrin	ND		0.00395	0.00138	mg/kg		12/09/10 09:26	12/10/10 22:19	1
Endosulfan I	ND		0.00395	0.00148	mg/kg		12/09/10 09:26	12/10/10 22:19	1
Endosulfan II	ND		0.00395	0.000789	mg/kg		12/09/10 09:26	12/10/10 22:19	1
Endosulfan sulfate	ND		0.00395	0.000987	mg/kg		12/09/10 09:26	12/10/10 22:19	1
Endrin	ND		0.00395	0.000987	mg/kg		12/09/10 09:26	12/10/10 22:19	1
Endrin aldehyde	ND		0.00395	0.000691	mg/kg		12/09/10 09:26	12/10/10 22:19	1
Endrin ketone	ND		0.00395	0.00168	mg/kg		12/09/10 09:26	12/10/10 22:19	1
gamma-BHC (Lindane)	ND		0.00395	0.00118	mg/kg		12/09/10 09:26	12/10/10 22:19	1
Heptachlor	ND		0.00395	0.00138	mg/kg		12/09/10 09:26	12/10/10 22:19	1
Heptachlor epoxide	ND		0.00395	0.00109	mg/kg		12/09/10 09:26	12/10/10 22:19	1
Methoxychlor	ND	B	0.0197	0.00138	mg/kg		12/09/10 09:26	12/10/10 22:19	1
Toxaphene	ND		0.0493	0.0493	mg/kg		12/09/10 09:26	12/10/10 22:19	1
alpha-Chlordane	ND		0.00395	0.00178	mg/kg		12/09/10 09:26	12/10/10 22:19	1
<b>gamma-Chlordane</b>	<b>0.00181</b>	<b>J</b>	0.00395	0.000987	mg/kg		12/09/10 09:26	12/10/10 22:19	1

# Analytical Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

**Client Sample ID: FHMA-06**

**Lab Sample ID: HTL0037-07**

**Date Collected: 11/30/10 15:10**

**Matrix: Solid/Soil**

**Date Received: 12/03/10 13:05**

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Decachlorobiphenyl	134	Z5, R1	45 - 120	12/09/10 09:26	12/10/10 22:19	1
Tetrachloro-meta-xylene	67		50 - 120	12/09/10 09:26	12/10/10 22:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	69.2		9.20	0.0736	mg/kg		12/14/10 12:01	12/17/10 17:09	1
Barium	20.8		18.4	0.0773	mg/kg		12/14/10 12:01	12/17/10 17:09	1
Cadmium	0.472	J	3.68	0.0745	mg/kg		12/14/10 12:01	12/17/10 17:09	1
Chromium	88.4		9.20	0.0672	mg/kg		12/14/10 12:01	12/17/10 17:09	1
Lead	31.8		18.4	0.0644	mg/kg		12/14/10 12:01	12/17/10 17:09	1
Selenium	3.25	J	18.4	0.0828	mg/kg		12/14/10 12:01	12/17/10 17:09	1
Silver	ND		9.20	0.00644	mg/kg		12/14/10 12:01	12/17/10 17:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0813		0.00425	0.0000850	mg/kg		12/20/10 09:29	12/20/10 16:59	1

**Client Sample ID: FHMA-11**

**Lab Sample ID: HTL0037-08**

**Date Collected: 11/30/10 16:40**

**Matrix: Solid/Soil**

**Date Received: 12/03/10 13:05**

**Method: EPA 8270C - SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3546/8270C)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
Acenaphthylene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
Aniline	ND	RL1	4800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
Anthracene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
Benzidine	ND	RL1	7600		ug/kg		12/12/10 11:14	12/13/10 20:37	5
Benzo(a)anthracene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
Benzo(a)pyrene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
Benzo(b)fluoranthene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
Benzo(g,h,i)perylene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
Benzo(k)fluoranthene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
Benzoic acid	ND	RL1	9600		ug/kg		12/12/10 11:14	12/13/10 20:37	5
Benzyl alcohol	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
4-Bromophenyl phenyl ether	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
Butyl benzyl phthalate	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
4-Chloro-3-methylphenol	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
4-Chloroaniline	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
Bis(2-chloroethoxy)methane	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
Bis(2-chloroethyl)ether	ND	RL1	2000		ug/kg		12/12/10 11:14	12/13/10 20:37	5
Bis(2-chloroisopropyl)ether	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
2-Chloronaphthalene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
2-Chlorophenol	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
4-Chlorophenyl phenyl ether	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
Chrysene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
Dibenz(a,h)anthracene	ND	RL1	4800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
Dibenzofuran	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
Di-n-butyl phthalate	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
1,2-Dichlorobenzene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
1,3-Dichlorobenzene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
1,4-Dichlorobenzene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5

# Analytical Data

Client: Weston Solutions, Inc.  
 Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
 SDG: HTL0037

**Client Sample ID: FHMA-11**  
**Date Collected: 11/30/10 16:40**  
**Date Received: 12/03/10 13:05**

**Lab Sample ID: HTL0037-08**  
**Matrix: Solid/Soil**

**Method: EPA 8270C - SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3546/8270C) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	ND	RL1	9600		ug/kg		12/12/10 11:14	12/13/10 20:37	5
2,4-Dichlorophenol	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
Diethyl phthalate	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
2,4-Dimethylphenol	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
Dimethyl phthalate	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
4,6-Dinitro-2-methylphenol	ND	RL1	4800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
2,4-Dinitrophenol	ND	RL1	7600		ug/kg		12/12/10 11:14	12/13/10 20:37	5
2,4-Dinitrotoluene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
2,6-Dinitrotoluene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
Di-n-octyl phthalate	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
1,2-Diphenylhydrazine/Azobenzene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
Fluoranthene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
Fluorene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
Hexachlorobenzene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
Hexachlorobutadiene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
Hexachlorocyclopentadiene	ND	RL1	9600		ug/kg		12/12/10 11:14	12/13/10 20:37	5
Hexachloroethane	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
Indeno(1,2,3-cd)pyrene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
Isophorone	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
2-Methylnaphthalene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
2-Methylphenol	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
Naphthalene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
2-Nitroaniline	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
3-Nitroaniline	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
4-Nitroaniline	ND	RL1	9600		ug/kg		12/12/10 11:14	12/13/10 20:37	5
Nitrobenzene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
2-Nitrophenol	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
4-Nitrophenol	ND	RL1	9600		ug/kg		12/12/10 11:14	12/13/10 20:37	5
N-Nitroso-di-n-propylamine	ND	RL1	2900		ug/kg		12/12/10 11:14	12/13/10 20:37	5
N-Nitrosodimethylamine	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
N-Nitrosodiphenylamine	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
Pentachlorophenol	ND	RL1	9600		ug/kg		12/12/10 11:14	12/13/10 20:37	5
Phenanthrene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
Phenol	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
Pyrene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
Pyridine	ND	RL1	2300		ug/kg		12/12/10 11:14	12/13/10 20:37	5
1,2,4-Trichlorobenzene	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
2,4,5-Trichlorophenol	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
2,4,6-Trichlorophenol	ND	RL1	3800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
Acetophenone	ND	RL1	4000		ug/kg		12/12/10 11:14	12/13/10 20:37	5
4-Aminobiphenyl	ND	RL1	4600		ug/kg		12/12/10 11:14	12/13/10 20:37	5
1-Chloronaphthalene	ND	RL1	4000		ug/kg		12/12/10 11:14	12/13/10 20:37	5
Dibenz[a,j]acridine	ND	RL1	4000		ug/kg		12/12/10 11:14	12/13/10 20:37	5
2,6-Dichlorophenol	ND	RL1	5200		ug/kg		12/12/10 11:14	12/13/10 20:37	5
Dimethylaminoazobenzene	ND	RL1	4600		ug/kg		12/12/10 11:14	12/13/10 20:37	5
7,12-Dimethylbenz[a]anthracene	ND	RL1	4600		ug/kg		12/12/10 11:14	12/13/10 20:37	5
a,a-Dimethylphenethylamine	ND	RL1	46000		ug/kg		12/12/10 11:14	12/13/10 20:37	5
Ethyl methanesulfonate	ND	RL1	4000		ug/kg		12/12/10 11:14	12/13/10 20:37	5
1-Methylnaphthalene	ND	RL1	4000		ug/kg		12/12/10 11:14	12/13/10 20:37	5
3-Methylcholanthrene	ND	RL1	4000		ug/kg		12/12/10 11:14	12/13/10 20:37	5

# Analytical Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

**Client Sample ID: FHMA-11**  
**Date Collected: 11/30/10 16:40**  
**Date Received: 12/03/10 13:05**

**Lab Sample ID: HTL0037-08**  
**Matrix: Solid/Soil**

**Method: EPA 8270C - SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3546/8270C) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl methanesulfonate	ND	RL1	2900		ug/kg		12/12/10 11:14	12/13/10 20:37	5
1-Naphthylamine	ND	RL1	5800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
2-Naphthylamine	ND	RL1	5800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
N-Nitrosodi-n-butylamine	ND	RL1	4600		ug/kg		12/12/10 11:14	12/13/10 20:37	5
N-Nitrosopiperidine	ND	RL1	3500		ug/kg		12/12/10 11:14	12/13/10 20:37	5
Pentachloronitrobenzene	ND	RL1	5800		ug/kg		12/12/10 11:14	12/13/10 20:37	5
Phenacetin	ND	RL1	4000		ug/kg		12/12/10 11:14	12/13/10 20:37	5
2-Picoline	ND	RL1	3500		ug/kg		12/12/10 11:14	12/13/10 20:37	5
Pronamide	ND	RL1	5200		ug/kg		12/12/10 11:14	12/13/10 20:37	5
1,2,4,5-Tetrachlorobenzene	ND	RL1	4000		ug/kg		12/12/10 11:14	12/13/10 20:37	5
2,3,4,6-Tetrachlorophenol	ND	RL1	4000		ug/kg		12/12/10 11:14	12/13/10 20:37	5

Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	64	RL1 Z3	35 - 125				12/12/10 11:14	12/13/10 20:37	5
2-Fluorobiphenyl	71	RL1 Z3	35 - 120				12/12/10 11:14	12/13/10 20:37	5
2-Fluorophenol	60	RL1 Z3	25 - 120				12/12/10 11:14	12/13/10 20:37	5
Nitrobenzene-d5	49	RL1 Z3	30 - 120				12/12/10 11:14	12/13/10 20:37	5
Phenol-d6	67	RL1 Z3	35 - 120				12/12/10 11:14	12/13/10 20:37	5
Terphenyl-d14	97	RL1 Z3	40 - 135				12/12/10 11:14	12/13/10 20:37	5

**Method: EPA 8081 - Organochlorine Pesticides by EPA Method 8081**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.00417	0.00115	mg/kg		12/09/10 09:26	12/10/10 22:39	1
4,4'-DDE	ND		0.00417	0.00104	mg/kg		12/09/10 09:26	12/10/10 22:39	1
4,4'-DDT	ND		0.00417	0.000729	mg/kg		12/09/10 09:26	12/10/10 22:39	1
Aldrin	ND		0.00417	0.00156	mg/kg		12/09/10 09:26	12/10/10 22:39	1
alpha-BHC	ND		0.00417	0.00188	mg/kg		12/09/10 09:26	12/10/10 22:39	1
beta-BHC	ND		0.00417	0.00177	mg/kg		12/09/10 09:26	12/10/10 22:39	1
Chlordane	ND		0.0344	0.0146	mg/kg		12/09/10 09:26	12/10/10 22:39	1
delta-BHC	ND		0.00417	0.00167	mg/kg		12/09/10 09:26	12/10/10 22:39	1
Dieldrin	ND		0.00417	0.00146	mg/kg		12/09/10 09:26	12/10/10 22:39	1
Endosulfan I	ND		0.00417	0.00156	mg/kg		12/09/10 09:26	12/10/10 22:39	1
Endosulfan II	ND		0.00417	0.000833	mg/kg		12/09/10 09:26	12/10/10 22:39	1
Endosulfan sulfate	ND		0.00417	0.00104	mg/kg		12/09/10 09:26	12/10/10 22:39	1
Endrin	ND		0.00417	0.00104	mg/kg		12/09/10 09:26	12/10/10 22:39	1
Endrin aldehyde	ND		0.00417	0.000729	mg/kg		12/09/10 09:26	12/10/10 22:39	1
Endrin ketone	ND		0.00417	0.00177	mg/kg		12/09/10 09:26	12/10/10 22:39	1
gamma-BHC (Lindane)	ND		0.00417	0.00125	mg/kg		12/09/10 09:26	12/10/10 22:39	1
Heptachlor	ND		0.00417	0.00146	mg/kg		12/09/10 09:26	12/10/10 22:39	1
Heptachlor epoxide	ND		0.00417	0.00115	mg/kg		12/09/10 09:26	12/10/10 22:39	1
Methoxychlor	ND	B	0.0208	0.00146	mg/kg		12/09/10 09:26	12/10/10 22:39	1
Toxaphene	ND		0.0521	0.0521	mg/kg		12/09/10 09:26	12/10/10 22:39	1
alpha-Chlordane	ND		0.00417	0.00188	mg/kg		12/09/10 09:26	12/10/10 22:39	1
<b>gamma-Chlordane</b>	<b>0.00194</b>	<b>J</b>	0.00417	0.00104	mg/kg		12/09/10 09:26	12/10/10 22:39	1

Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Decachlorobiphenyl	125	Z5, R1	45 - 120				12/09/10 09:26	12/10/10 22:39	1
Tetrachloro-meta-xylene	63		50 - 120				12/09/10 09:26	12/10/10 22:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>50.4</b>		8.18	0.0654	mg/kg		12/14/10 12:01	12/17/10 17:15	1

# Analytical Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

**Client Sample ID: FHMA-11**  
**Date Collected: 11/30/10 16:40**  
**Date Received: 12/03/10 13:05**

**Lab Sample ID: HTL0037-08**  
**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
Barium	21.0		16.4	0.0687	mg/kg		12/14/10 12:01	12/17/10 17:15	1
Cadmium	0.402	J	3.27	0.0662	mg/kg		12/14/10 12:01	12/17/10 17:15	1
Chromium	80.8		8.18	0.0597	mg/kg		12/14/10 12:01	12/17/10 17:15	1
Lead	7.81	J	16.4	0.0572	mg/kg		12/14/10 12:01	12/17/10 17:15	1
Selenium	2.76	J	16.4	0.0736	mg/kg		12/14/10 12:01	12/17/10 17:15	1
Silver	ND		8.18	0.00572	mg/kg		12/14/10 12:01	12/21/10 14:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0545		0.00507	0.000101	mg/kg		12/20/10 09:29	12/20/10 17:01	1

**Client Sample ID: FHMA-12**  
**Date Collected: 11/30/10 18:15**  
**Date Received: 12/03/10 13:05**

**Lab Sample ID: HTL0037-09**  
**Matrix: Solid/Soil**

**Method: EPA 8270C - SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3546/8270C)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
Acenaphthylene	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
Aniline	ND	RL1	5200		ug/kg		12/12/10 11:14	12/13/10 20:57	5
Anthracene	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
Benzidine	ND	RL1	8100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
Benzo(a)anthracene	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
Benzo(a)pyrene	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
Benzo(b)fluoranthene	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
Benzo(g,h,i)perylene	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
Benzo(k)fluoranthene	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
Benzoic acid	ND	RL1	10000		ug/kg		12/12/10 11:14	12/13/10 20:57	5
Benzyl alcohol	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
4-Bromophenyl phenyl ether	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
Butyl benzyl phthalate	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
4-Chloro-3-methylphenol	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
4-Chloroaniline	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
Bis(2-chloroethoxy)methane	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
Bis(2-chloroethyl)ether	ND	RL1	2100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
Bis(2-chloroisopropyl)ether	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
2-Chloronaphthalene	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
2-Chlorophenol	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
4-Chlorophenyl phenyl ether	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
Chrysene	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
Dibenz(a,h)anthracene	ND	RL1	5200		ug/kg		12/12/10 11:14	12/13/10 20:57	5
Dibenzofuran	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
Di-n-butyl phthalate	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
1,2-Dichlorobenzene	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
1,3-Dichlorobenzene	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
1,4-Dichlorobenzene	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
3,3'-Dichlorobenzidine	ND	RL1	10000		ug/kg		12/12/10 11:14	12/13/10 20:57	5
2,4-Dichlorophenol	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
Diethyl phthalate	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
2,4-Dimethylphenol	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
Dimethyl phthalate	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5

# Analytical Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

**Client Sample ID: FHMA-12**

**Lab Sample ID: HTL0037-09**

**Date Collected: 11/30/10 18:15**

**Matrix: Solid/Soil**

**Date Received: 12/03/10 13:05**

**Method: EPA 8270C - SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3546/8270C) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND	RL1	5200		ug/kg		12/12/10 11:14	12/13/10 20:57	5
2,4-Dinitrophenol	ND	RL1	8100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
2,4-Dinitrotoluene	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
2,6-Dinitrotoluene	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
Di-n-octyl phthalate	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
1,2-Diphenylhydrazine/Azobenzene	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
Fluoranthene	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
Fluorene	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
Hexachlorobenzene	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
Hexachlorobutadiene	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
Hexachlorocyclopentadiene	ND	RL1	10000		ug/kg		12/12/10 11:14	12/13/10 20:57	5
Hexachloroethane	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
Indeno(1,2,3-cd)pyrene	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
Isophorone	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
2-Methylnaphthalene	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
2-Methylphenol	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
Naphthalene	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
2-Nitroaniline	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
3-Nitroaniline	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
4-Nitroaniline	ND	RL1	10000		ug/kg		12/12/10 11:14	12/13/10 20:57	5
Nitrobenzene	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
2-Nitrophenol	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
4-Nitrophenol	ND	RL1	10000		ug/kg		12/12/10 11:14	12/13/10 20:57	5
N-Nitroso-di-n-propylamine	ND	RL1	3100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
N-Nitrosodimethylamine	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
N-Nitrosodiphenylamine	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
Pentachlorophenol	ND	RL1	10000		ug/kg		12/12/10 11:14	12/13/10 20:57	5
Phenanthrene	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
Phenol	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
Pyrene	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
Pyridine	ND	RL1	2500		ug/kg		12/12/10 11:14	12/13/10 20:57	5
1,2,4-Trichlorobenzene	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
2,4,5-Trichlorophenol	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
2,4,6-Trichlorophenol	ND	RL1	4100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
Acetophenone	ND	RL1	4300		ug/kg		12/12/10 11:14	12/13/10 20:57	5
4-Aminobiphenyl	ND	RL1	4900		ug/kg		12/12/10 11:14	12/13/10 20:57	5
1-Chloronaphthalene	ND	RL1	4300		ug/kg		12/12/10 11:14	12/13/10 20:57	5
Dibenz[a,j]acridine	ND	RL1	4300		ug/kg		12/12/10 11:14	12/13/10 20:57	5
2,6-Dichlorophenol	ND	RL1	5500		ug/kg		12/12/10 11:14	12/13/10 20:57	5
Dimethylaminoazobenzene	ND	RL1	4900		ug/kg		12/12/10 11:14	12/13/10 20:57	5
7,12-Dimethylbenz[a]anthracene	ND	RL1	4900		ug/kg		12/12/10 11:14	12/13/10 20:57	5
a,a-Dimethylphenethylamine	ND	RL1	49000		ug/kg		12/12/10 11:14	12/13/10 20:57	5
Ethyl methanesulfonate	ND	RL1	4300		ug/kg		12/12/10 11:14	12/13/10 20:57	5
1-Methylnaphthalene	ND	RL1	4300		ug/kg		12/12/10 11:14	12/13/10 20:57	5
3-Methylcholanthrene	ND	RL1	4300		ug/kg		12/12/10 11:14	12/13/10 20:57	5
Methyl methanesulfonate	ND	RL1	3100		ug/kg		12/12/10 11:14	12/13/10 20:57	5
1-Naphthylamine	ND	RL1	6200		ug/kg		12/12/10 11:14	12/13/10 20:57	5
2-Naphthylamine	ND	RL1	6200		ug/kg		12/12/10 11:14	12/13/10 20:57	5
N-Nitrosodi-n-butylamine	ND	RL1	4900		ug/kg		12/12/10 11:14	12/13/10 20:57	5
N-Nitrosopiperidine	ND	RL1	3700		ug/kg		12/12/10 11:14	12/13/10 20:57	5

# Analytical Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

**Client Sample ID: FHMA-12**

**Lab Sample ID: HTL0037-09**

**Date Collected: 11/30/10 18:15**

**Matrix: Solid/Soil**

**Date Received: 12/03/10 13:05**

**Method: EPA 8270C - SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3546/8270C) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachloronitrobenzene	ND	RL1	6200		ug/kg		12/12/10 11:14	12/13/10 20:57	5
Phenacetin	ND	RL1	4300		ug/kg		12/12/10 11:14	12/13/10 20:57	5
2-Picoline	ND	RL1	3700		ug/kg		12/12/10 11:14	12/13/10 20:57	5
Pronamide	ND	RL1	5500		ug/kg		12/12/10 11:14	12/13/10 20:57	5
1,2,4,5-Tetrachlorobenzene	ND	RL1	4300		ug/kg		12/12/10 11:14	12/13/10 20:57	5
2,3,4,6-Tetrachlorophenol	ND	RL1	4300		ug/kg		12/12/10 11:14	12/13/10 20:57	5

Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	58	RL1 Z3	35 - 125				12/12/10 11:14	12/13/10 20:57	5
2-Fluorobiphenyl	67	RL1 Z3	35 - 120				12/12/10 11:14	12/13/10 20:57	5
2-Fluorophenol	55	RL1 Z3	25 - 120				12/12/10 11:14	12/13/10 20:57	5
Nitrobenzene-d5	48	RL1 Z3	30 - 120				12/12/10 11:14	12/13/10 20:57	5
Phenol-d6	58	RL1 Z3	35 - 120				12/12/10 11:14	12/13/10 20:57	5
Terphenyl-d14	86	RL1 Z3	40 - 135				12/12/10 11:14	12/13/10 20:57	5

**Method: EPA 8081 - Organochlorine Pesticides by EPA Method 8081**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.00373	0.00102	mg/kg		12/09/10 09:26	01/04/11 21:00	1
<b>4,4'-DDE</b>	<b>0.00102</b>	<b>J</b>	0.00373	0.000932	mg/kg		12/09/10 09:26	01/04/11 21:00	1
4,4'-DDT	ND		0.00373	0.000652	mg/kg		12/09/10 09:26	01/04/11 21:00	1
Aldrin	ND		0.00373	0.00140	mg/kg		12/09/10 09:26	01/04/11 21:00	1
alpha-BHC	ND		0.00373	0.00168	mg/kg		12/09/10 09:26	01/04/11 21:00	1
beta-BHC	ND		0.00373	0.00158	mg/kg		12/09/10 09:26	01/04/11 21:00	1
Chlordane	ND		0.0307	0.0130	mg/kg		12/09/10 09:26	01/04/11 21:00	1
delta-BHC	ND		0.00373	0.00149	mg/kg		12/09/10 09:26	01/04/11 21:00	1
Dieldrin	ND		0.00373	0.00130	mg/kg		12/09/10 09:26	01/04/11 21:00	1
Endosulfan I	ND		0.00373	0.00140	mg/kg		12/09/10 09:26	01/04/11 21:00	1
Endosulfan II	ND		0.00373	0.000745	mg/kg		12/09/10 09:26	01/04/11 21:00	1
Endosulfan sulfate	ND		0.00373	0.000932	mg/kg		12/09/10 09:26	01/04/11 21:00	1
Endrin	ND		0.00373	0.000932	mg/kg		12/09/10 09:26	01/04/11 21:00	1
Endrin aldehyde	ND		0.00373	0.000652	mg/kg		12/09/10 09:26	01/04/11 21:00	1
Endrin ketone	ND		0.00373	0.00158	mg/kg		12/09/10 09:26	01/04/11 21:00	1
gamma-BHC (Lindane)	ND		0.00373	0.00112	mg/kg		12/09/10 09:26	01/04/11 21:00	1
Heptachlor	ND		0.00373	0.00130	mg/kg		12/09/10 09:26	01/04/11 21:00	1
Heptachlor epoxide	ND		0.00373	0.00102	mg/kg		12/09/10 09:26	01/04/11 21:00	1
Methoxychlor	ND	B	0.0186	0.00130	mg/kg		12/09/10 09:26	01/04/11 21:00	1
Toxaphene	ND		0.0466	0.0466	mg/kg		12/09/10 09:26	01/04/11 21:00	1
alpha-Chlordane	ND		0.00373	0.00168	mg/kg		12/09/10 09:26	01/04/11 21:00	1
<b>gamma-Chlordane</b>	<b>0.00217</b>	<b>J</b>	0.00373	0.000932	mg/kg		12/09/10 09:26	01/04/11 21:00	1

Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Decachlorobiphenyl	126	Z5, R1	45 - 120				12/09/10 09:26	01/04/11 21:00	1
Tetrachloro-meta-xylene	66		50 - 120				12/09/10 09:26	01/04/11 21:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>40.8</b>		9.61	0.0768	mg/kg		12/14/10 12:01	12/17/10 17:20	1
<b>Barium</b>	<b>23.6</b>		19.2	0.0807	mg/kg		12/14/10 12:01	12/17/10 17:20	1
<b>Cadmium</b>	<b>0.322</b>	<b>J</b>	3.84	0.0778	mg/kg		12/14/10 12:01	12/17/10 17:20	1
<b>Chromium</b>	<b>86.0</b>		9.61	0.0701	mg/kg		12/14/10 12:01	12/17/10 17:20	1
<b>Lead</b>	<b>8.09</b>	<b>J</b>	19.2	0.0672	mg/kg		12/14/10 12:01	12/17/10 17:20	1
<b>Selenium</b>	<b>3.18</b>	<b>J</b>	19.2	0.0865	mg/kg		12/14/10 12:01	12/17/10 17:20	1

# Analytical Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

**Client Sample ID: FHMA-12**

**Lab Sample ID: HTL0037-09**

**Date Collected: 11/30/10 18:15**

**Matrix: Solid/Soil**

**Date Received: 12/03/10 13:05**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.175	J	9.61	0.00672	mg/kg		12/14/10 12:01	12/21/10 14:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0647		0.00486	0.0000973	mg/kg		12/20/10 09:29	12/20/10 17:02	1

**Client Sample ID: EB-101130**

**Lab Sample ID: HTL0037-10**

**Date Collected: 11/30/10 16:20**

**Matrix: Water - NonPotable**

**Date Received: 12/03/10 13:05**

**Method: EPA 8270C - SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3520C/8270C)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
Acenaphthylene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
Aniline	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
Anthracene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
Benzidine	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:28	1
Benzo(a)anthracene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
Benzo(a)pyrene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
Benzo(b)fluoranthene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
Benzoic acid	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:28	1
Benzo(g,h,i)perylene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
Benzo(k)fluoranthene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
Benzyl alcohol	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:28	1
4-Bromophenyl phenyl ether	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
Butyl benzyl phthalate	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:28	1
4-Chloro-3-methylphenol	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:28	1
4-Chloroaniline	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
Bis(2-chloroethoxy)methane	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
Bis(2-chloroethyl)ether	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
Bis(2-chloroisopropyl)ether	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
2-Chloronaphthalene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
2-Chlorophenol	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
4-Chlorophenyl phenyl ether	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
Chrysene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
Dibenz(a,h)anthracene	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:28	1
Dibenzofuran	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
Di-n-butyl phthalate	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:28	1
1,2-Dichlorobenzene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
1,3-Dichlorobenzene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
1,4-Dichlorobenzene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
3,3'-Dichlorobenzidine	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:28	1
2,4-Dichlorophenol	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
Diethyl phthalate	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
2,4-Dimethylphenol	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:28	1
Dimethyl phthalate	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
1,2-Diphenylhydrazine/Azobenzene	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:28	1
4,6-Dinitro-2-methylphenol	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:28	1
2,4-Dinitrophenol	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:28	1
2,4-Dinitrotoluene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
2,6-Dinitrotoluene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1

# Analytical Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

**Client Sample ID: EB-101130**

**Lab Sample ID: HTL0037-10**

**Date Collected: 11/30/10 16:20**

**Matrix: Water - NonPotable**

**Date Received: 12/03/10 13:05**

**Method: EPA 8270C - SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3520C/8270C) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:28	1
Fluoranthene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
Fluorene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
Hexachlorobenzene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
Hexachlorobutadiene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
Hexachlorocyclopentadiene	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:28	1
Hexachloroethane	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
Indeno(1,2,3-cd)pyrene	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:28	1
Isophorone	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
2-Methylnaphthalene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
2-Methylphenol	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
3/4-Methylphenol	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:28	1
Naphthalene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
2-Nitroaniline	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:28	1
3-Nitroaniline	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:28	1
4-Nitroaniline	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:28	1
Nitrobenzene	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:28	1
2-Nitrophenol	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
4-Nitrophenol	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:28	1
N-Nitrosodimethylamine	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:28	1
N-Nitrosodiphenylamine	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
N-Nitroso-di-n-propylamine	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
Pentachlorophenol	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:28	1
Phenanthrene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
Phenol	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
Pyrene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
Pyridine	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:28	1
1,2,4-Trichlorobenzene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
2,4,5-Trichlorophenol	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:28	1
2,4,6-Trichlorophenol	ND	H3, RL4	21		ug/l		12/10/10 11:58	12/13/10 17:28	1
Acetophenone	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
1-Chloronaphthalene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
4-Aminobiphenyl	ND	H3, RL4	16		ug/l		12/10/10 11:58	12/13/10 17:28	1
2,6-Dichlorophenol	ND	H3, RL4	16		ug/l		12/10/10 11:58	12/13/10 17:28	1
Dimethylaminoazobenzene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
7,12-Dimethylbenz[a]anthracene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
a,a-Dimethylphenethylamine	ND	H3, RL4	120		ug/l		12/10/10 11:58	12/13/10 17:28	1
Ethyl methanesulfonate	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
Dibenz[a,j]acridine	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
3-Methylcholanthrene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
Methyl methanesulfonate	ND	H3, RL4	16		ug/l		12/10/10 11:58	12/13/10 17:28	1
1-Naphthylamine	ND	H3, RL4	16		ug/l		12/10/10 11:58	12/13/10 17:28	1
2-Naphthylamine	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
N-Nitrosodi-n-butylamine	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
N-Nitrosopiperidine	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
Pentachloronitrobenzene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
Phenacetin	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
2-Picoline	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
Pronamide	ND	H3, RL4	16		ug/l		12/10/10 11:58	12/13/10 17:28	1
1,2,4,5-Tetrachlorobenzene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1

# Analytical Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

**Client Sample ID: EB-101130**

**Lab Sample ID: HTL0037-10**

**Date Collected: 11/30/10 16:20**

**Matrix: Water - NonPotable**

**Date Received: 12/03/10 13:05**

**Method: EPA 8270C - SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3520C/8270C) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,4,6-Tetrachlorophenol	ND	H3, RL4	16		ug/l		12/10/10 11:58	12/13/10 17:28	1
1-Methylnaphthalene	ND	H3, RL4	10		ug/l		12/10/10 11:58	12/13/10 17:28	1
<b>Surrogate</b>	<b>% Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl	82	H3, RL4	50 - 120				12/10/10 11:58	12/13/10 17:28	1
2-Fluorophenol	63	H3, RL4	30 - 120				12/10/10 11:58	12/13/10 17:28	1
Nitrobenzene-d5	70	H3, RL4	45 - 120				12/10/10 11:58	12/13/10 17:28	1
Phenol-d6	68	H3, RL4	35 - 120				12/10/10 11:58	12/13/10 17:28	1
Terphenyl-d14	95	H3, RL4	50 - 125				12/10/10 11:58	12/13/10 17:28	1
2,4,6-Tribromophenol	75	H3, RL4	40 - 120				12/10/10 11:58	12/13/10 17:28	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	H4	0.104	0.0177	ug/L		12/09/10 13:48	12/10/10 19:04	1
4,4'-DDE	ND	H4	0.104	0.0271	ug/L		12/09/10 13:48	12/10/10 19:04	1
4,4'-DDT	ND	H4	0.104	0.0104	ug/L		12/09/10 13:48	12/10/10 19:04	1
Aldrin	ND	H4	0.104	0.0115	ug/L		12/09/10 13:48	12/10/10 19:04	1
alpha-BHC	ND	H4	0.0521	0.0156	ug/L		12/09/10 13:48	12/10/10 19:04	1
beta-BHC	ND	H4	0.0521	0.0208	ug/L		12/09/10 13:48	12/10/10 19:04	1
Chlordane	ND	H4	1.04	0.477	ug/L		12/09/10 13:48	12/10/10 19:04	1
delta-BHC	ND	H4	0.104	0.0240	ug/L		12/09/10 13:48	12/10/10 19:04	1
Dieldrin	ND	H4	0.104	0.0375	ug/L		12/09/10 13:48	12/10/10 19:04	1
Endosulfan I	ND	H4	0.0521	0.0104	ug/L		12/09/10 13:48	12/10/10 19:04	1
Endosulfan II	ND	H4	0.104	0.0188	ug/L		12/09/10 13:48	12/10/10 19:04	1
Endosulfan sulfate	ND	H4	0.104	0.0188	ug/L		12/09/10 13:48	12/10/10 19:04	1
Endrin	ND	H4	0.104	0.0115	ug/L		12/09/10 13:48	12/10/10 19:04	1
Endrin aldehyde	ND	H4	0.208	0.0688	ug/L		12/09/10 13:48	12/10/10 19:04	1
Endrin ketone	ND	H4	0.104	0.0344	ug/L		12/09/10 13:48	12/10/10 19:04	1
gamma-BHC (Lindane)	ND	H4 B	0.0521	0.00625	ug/L		12/09/10 13:48	12/10/10 19:04	1
Heptachlor	ND	H4	0.104	0.0115	ug/L		12/09/10 13:48	12/10/10 19:04	1
Heptachlor epoxide	ND	H4	0.0833	0.0417	ug/L		12/09/10 13:48	12/10/10 19:04	1
Methoxychlor	ND	H4 B	0.521	0.0104	ug/L		12/09/10 13:48	12/10/10 19:04	1
Toxaphene	ND	H4	5.21	5.21	ug/L		12/09/10 13:48	12/10/10 19:04	1
alpha-Chlordane	ND	H4	0.260	0.107	ug/L		12/09/10 13:48	12/10/10 19:04	1
gamma-Chlordane	ND	H4	0.417	0.103	ug/L		12/09/10 13:48	12/10/10 19:04	1
<b>Surrogate</b>	<b>% Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Decachlorobiphenyl	56	H4	35 - 135				12/09/10 13:48	12/10/10 19:04	1
Tetrachloro-meta-xylene	61	H4	35 - 135				12/09/10 13:48	12/10/10 19:04	1

**Method: EPA 6010B - METALS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.010		mg/l		12/15/10 10:22	12/15/10 18:40	1
Barium	ND		0.010		mg/l		12/15/10 10:22	12/15/10 18:40	1
Cadmium	ND		0.0050		mg/l		12/15/10 10:22	12/15/10 18:40	1
Chromium	ND		0.0050		mg/l		12/15/10 10:22	12/17/10 14:52	1
Lead	ND		0.0050		mg/l		12/15/10 10:22	12/15/10 18:40	1
Selenium	ND		0.010		mg/l		12/15/10 10:22	12/15/10 18:40	1
Silver	ND		0.010		mg/l		12/15/10 10:22	12/15/10 18:40	1

# Analytical Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

**Client Sample ID: EB-101130**

**Lab Sample ID: HTL0037-10**

**Date Collected: 11/30/10 16:20**

**Matrix: Water - NonPotable**

**Date Received: 12/03/10 13:05**

**Method: EPA 7470 - Total Metals by EPA Method 6010/7471**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0250	0.0119	ug/L		12/09/10 12:51	12/09/10 16:30	1

**Client Sample ID: MDA-10**

**Lab Sample ID: HTL0037-11**

**Date Collected: 12/01/10 11:30**

**Matrix: Solid/Soil**

**Date Received: 12/03/10 13:05**

**Percent Solids: 54**

**Method: EPA 8081 - Organochlorine Pesticides by EPA Method 8081**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.00132	H1, C-06 R10, J	0.00369	0.00102	mg/kg		12/17/10 08:54	01/05/11 20:43	1
4,4'-DDE	0.00188	H1, C-06 J	0.00369	0.000923	mg/kg		12/17/10 08:54	01/05/11 20:43	1
4,4'-DDT	ND	H1, C-06 A-01b	0.00369	0.000646	mg/kg		12/17/10 08:54	01/05/11 20:43	1
Aldrin	ND	H1, C-06 A-01b	0.00369	0.00138	mg/kg		12/17/10 08:54	01/05/11 20:43	1
alpha-BHC	ND	H1, C-06	0.00369	0.00166	mg/kg		12/17/10 08:54	01/05/11 20:43	1
beta-BHC	0.00298	H1, C-06 R10, J	0.00369	0.00157	mg/kg		12/17/10 08:54	01/05/11 20:43	1
Chlordane	0.0373	H1, C-06 R10	0.0305	0.0129	mg/kg		12/17/10 08:54	01/05/11 20:43	1
delta-BHC	ND	H1, C-06	0.00369	0.00148	mg/kg		12/17/10 08:54	01/05/11 20:43	1
Dieldrin	ND	H1, C-06	0.00369	0.00129	mg/kg		12/17/10 08:54	01/05/11 20:43	1
Endosulfan I	ND	H1, C-06	0.00369	0.00138	mg/kg		12/17/10 08:54	01/05/11 20:43	1
Endosulfan II	ND	H1, C-06	0.00369	0.000738	mg/kg		12/17/10 08:54	01/05/11 20:43	1
Endosulfan sulfate	ND	H1, C-06	0.00369	0.000923	mg/kg		12/17/10 08:54	01/05/11 20:43	1
Endrin	ND	H1, C-06	0.00369	0.000923	mg/kg		12/17/10 08:54	01/05/11 20:43	1
Endrin aldehyde	0.0126	H1, C-06 R1	0.00369	0.000646	mg/kg		12/17/10 08:54	01/05/11 20:43	1
Endrin ketone	ND	H1, C-06	0.00369	0.00157	mg/kg		12/17/10 08:54	01/05/11 20:43	1
gamma-BHC (Lindane)	ND	H1, C-06	0.00369	0.00111	mg/kg		12/17/10 08:54	01/05/11 20:43	1
Heptachlor	ND	H1, C-06	0.00369	0.00129	mg/kg		12/17/10 08:54	01/05/11 20:43	1
Heptachlor epoxide	0.0295	H1, C-06 R1	0.00369	0.00102	mg/kg		12/17/10 08:54	01/05/11 20:43	1
Methoxychlor	ND	H1, C-06 A-01b	0.0185	0.00129	mg/kg		12/17/10 08:54	01/05/11 20:43	1
Toxaphene	ND	H1, C-06	0.0462	0.0462	mg/kg		12/17/10 08:54	01/05/11 20:43	1
alpha-Chlordane	0.00311	H1, C-06 R10, J	0.00369	0.00166	mg/kg		12/17/10 08:54	01/05/11 20:43	1
gamma-Chlordane	0.00185	H1, C-06 R10, J	0.00369	0.000923	mg/kg		12/17/10 08:54	01/05/11 20:43	1
<b>Surrogate</b>	<b>% Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Decachlorobiphenyl	205	H1, C-06 Z1	45 - 120				12/17/10 08:54	01/05/11 20:43	1
Tetrachloro-meta-xylene	61	H1, C-06	50 - 120				12/17/10 08:54	01/05/11 20:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	22.8		9.61	0.0768	mg/kg		12/21/10 15:24	12/22/10 13:27	1
Barium	18.3	J	19.2	0.0807	mg/kg		12/21/10 15:24	12/22/10 13:27	1
Cadmium	ND		3.84	0.0778	mg/kg		12/21/10 15:24	12/22/10 13:27	1
Chromium	146		9.61	0.0701	mg/kg		12/21/10 15:24	12/22/10 13:27	1
Lead	25.5		19.2	0.0672	mg/kg		12/21/10 15:24	12/22/10 13:27	1
Selenium	1.33	J	19.2	0.0865	mg/kg		12/21/10 15:24	12/22/10 13:27	1
Silver	1.31	J	9.61	0.00672	mg/kg		12/21/10 15:24	12/22/10 13:27	1

# Analytical Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

**Client Sample ID: MDA-10**  
**Date Collected: 12/01/10 11:30**  
**Date Received: 12/03/10 13:05**

**Lab Sample ID: HTL0037-11**  
**Matrix: Solid/Soil**  
**Percent Solids: 54**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.167		0.00602	0.000120	mg/kg		12/20/10 09:59	12/20/10 17:42	1

**Client Sample ID: MDA-09**  
**Date Collected: 12/01/10 15:25**  
**Date Received: 12/03/10 13:05**

**Lab Sample ID: HTL0037-12**  
**Matrix: Solid/Soil**  
**Percent Solids: 51.7**

**Method: EPA 8081 - Organochlorine Pesticides by EPA Method 8081**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	H1, C-06	0.00395	0.00109	mg/kg		12/17/10 08:54	01/05/11 21:02	1
4,4'-DDE	0.00214	H1, C-06 J	0.00395	0.000987	mg/kg		12/17/10 08:54	01/05/11 21:02	1
4,4'-DDT	ND	H1, C-06 A-01b	0.00395	0.000691	mg/kg		12/17/10 08:54	01/05/11 21:02	1
Aldrin	ND	H1, C-06 A-01b	0.00395	0.00148	mg/kg		12/17/10 08:54	01/05/11 21:02	1
alpha-BHC	ND	H1, C-06	0.00395	0.00178	mg/kg		12/17/10 08:54	01/05/11 21:02	1
beta-BHC	0.00431	H1, C-06	0.00395	0.00168	mg/kg		12/17/10 08:54	01/05/11 21:02	1
Chlordane	0.0500	H1, C-06	0.0326	0.0138	mg/kg		12/17/10 08:54	01/05/11 21:02	1
delta-BHC	ND	H1, C-06	0.00395	0.00158	mg/kg		12/17/10 08:54	01/05/11 21:02	1
Dieldrin	ND	H1, C-06	0.00395	0.00138	mg/kg		12/17/10 08:54	01/05/11 21:02	1
Endosulfan I	ND	H1, C-06	0.00395	0.00148	mg/kg		12/17/10 08:54	01/05/11 21:02	1
Endosulfan II	ND	H1, C-06	0.00395	0.000789	mg/kg		12/17/10 08:54	01/05/11 21:02	1
Endosulfan sulfate	ND	H1, C-06	0.00395	0.000987	mg/kg		12/17/10 08:54	01/05/11 21:02	1
Endrin	ND	H1, C-06	0.00395	0.000987	mg/kg		12/17/10 08:54	01/05/11 21:02	1
Endrin aldehyde	0.00207	H1, C-06 J	0.00395	0.000691	mg/kg		12/17/10 08:54	01/05/11 21:02	1
Endrin ketone	ND	H1, C-06	0.00395	0.00168	mg/kg		12/17/10 08:54	01/05/11 21:02	1
gamma-BHC (Lindane)	0.00148	H1, C-06 R1, J	0.00395	0.00118	mg/kg		12/17/10 08:54	01/05/11 21:02	1
Heptachlor	ND	H1, C-06	0.00395	0.00138	mg/kg		12/17/10 08:54	01/05/11 21:02	1
Heptachlor epoxide	ND	H1, C-06	0.00395	0.00109	mg/kg		12/17/10 08:54	01/05/11 21:02	1
Methoxychlor	0.00257	H1, C-06 A-01b, R1, J	0.0197	0.00138	mg/kg		12/17/10 08:54	01/05/11 21:02	1
Toxaphene	ND	H1, C-06	0.0493	0.0493	mg/kg		12/17/10 08:54	01/05/11 21:02	1
alpha-Chlordane	0.00322	H1, C-06 R10, J	0.00395	0.00178	mg/kg		12/17/10 08:54	01/05/11 21:02	1
gamma-Chlordane	0.00188	H1, C-06 R10, J	0.00395	0.000987	mg/kg		12/17/10 08:54	01/05/11 21:02	1
<b>Surrogate</b>	<b>% Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Decachlorobiphenyl	104	H1, C-06	45 - 120				12/17/10 08:54	01/05/11 21:02	1
Tetrachloro-meta-xylene	57	H1, C-06	50 - 120				12/17/10 08:54	01/05/11 21:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	41.6		9.69	0.0775	mg/kg		12/21/10 15:24	12/22/10 13:37	1
Barium	41.9		19.4	0.0814	mg/kg		12/21/10 15:24	12/22/10 13:37	1
Cadmium	ND		3.88	0.0785	mg/kg		12/21/10 15:24	12/22/10 13:37	1
Chromium	256		9.69	0.0707	mg/kg		12/21/10 15:24	12/22/10 13:37	1
Lead	110		19.4	0.0678	mg/kg		12/21/10 15:24	12/22/10 13:37	1
Selenium	ND		19.4	0.0872	mg/kg		12/21/10 15:24	12/22/10 13:37	1
Silver	1.27	J	9.69	0.00678	mg/kg		12/21/10 15:24	12/22/10 13:37	1

# Analytical Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

**Client Sample ID: MDA-09**  
**Date Collected: 12/01/10 15:25**  
**Date Received: 12/03/10 13:05**

**Lab Sample ID: HTL0037-12**  
**Matrix: Solid/Soil**  
**Percent Solids: 51.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.204		0.0225	0.000450	mg/kg		12/20/10 09:59	12/20/10 18:16	5

**Client Sample ID: MDA-08**  
**Date Collected: 12/02/10 09:40**  
**Date Received: 12/03/10 13:05**

**Lab Sample ID: HTL0037-13**  
**Matrix: Solid/Soil**  
**Percent Solids: 57.1**

**Method: EPA 8081 - Organochlorine Pesticides by EPA Method 8081**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	C-06, H1	0.00392	0.00108	mg/kg		12/17/10 08:54	01/05/11 21:22	1
4,4'-DDE	0.00196	C-06, H1 R1, J	0.00392	0.000980	mg/kg		12/17/10 08:54	01/05/11 21:22	1
4,4'-DDT	ND	C-06, H1 A-01b	0.00392	0.000686	mg/kg		12/17/10 08:54	01/05/11 21:22	1
Aldrin	ND	C-06, H1 A-01b	0.00392	0.00147	mg/kg		12/17/10 08:54	01/05/11 21:22	1
alpha-BHC	ND	C-06, H1	0.00392	0.00176	mg/kg		12/17/10 08:54	01/05/11 21:22	1
beta-BHC	ND	C-06, H1	0.00392	0.00167	mg/kg		12/17/10 08:54	01/05/11 21:22	1
Chlordane	0.0767	C-06, H1	0.0324	0.0137	mg/kg		12/17/10 08:54	01/05/11 21:22	1
delta-BHC	ND	C-06, H1	0.00392	0.00157	mg/kg		12/17/10 08:54	01/05/11 21:22	1
Dieldrin	ND	C-06, H1	0.00392	0.00137	mg/kg		12/17/10 08:54	01/05/11 21:22	1
Endosulfan I	ND	C-06, H1	0.00392	0.00147	mg/kg		12/17/10 08:54	01/05/11 21:22	1
Endosulfan II	ND	C-06, H1	0.00392	0.000784	mg/kg		12/17/10 08:54	01/05/11 21:22	1
Endosulfan sulfate	ND	C-06, H1	0.00392	0.000980	mg/kg		12/17/10 08:54	01/05/11 21:22	1
Endrin	ND	C-06, H1	0.00392	0.000980	mg/kg		12/17/10 08:54	01/05/11 21:22	1
Endrin aldehyde	ND	C-06, H1	0.00392	0.000686	mg/kg		12/17/10 08:54	01/05/11 21:22	1
Endrin ketone	ND	C-06, H1	0.00392	0.00167	mg/kg		12/17/10 08:54	01/05/11 21:22	1
gamma-BHC (Lindane)	0.00137	C-06, H1 R10, J	0.00392	0.00118	mg/kg		12/17/10 08:54	01/05/11 21:22	1
Heptachlor	ND	C-06, H1	0.00392	0.00137	mg/kg		12/17/10 08:54	01/05/11 21:22	1
Heptachlor epoxide	0.00216	C-06, H1 R1, J	0.00392	0.00108	mg/kg		12/17/10 08:54	01/05/11 21:22	1
Methoxychlor	ND	C-06, H1 A-01b	0.0196	0.00137	mg/kg		12/17/10 08:54	01/05/11 21:22	1
Toxaphene	ND	C-06, H1	0.0490	0.0490	mg/kg		12/17/10 08:54	01/05/11 21:22	1
alpha-Chlordane	0.00866	C-06, H1 R10	0.00392	0.00176	mg/kg		12/17/10 08:54	01/05/11 21:22	1
gamma-Chlordane	0.0103	C-06, H1	0.00392	0.000980	mg/kg		12/17/10 08:54	01/05/11 21:22	1
<b>Surrogate</b>	<b>% Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Decachlorobiphenyl	106	C-06, H1	45 - 120				12/17/10 08:54	01/05/11 21:22	1
Tetrachloro-meta-xylene	66	C-06, H1	50 - 120				12/17/10 08:54	01/05/11 21:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	20.1		9.53	0.0763	mg/kg		12/21/10 15:24	12/22/10 13:42	1
Barium	28.1		19.1	0.0801	mg/kg		12/21/10 15:24	12/22/10 13:42	1
Cadmium	ND		3.81	0.0772	mg/kg		12/21/10 15:24	12/22/10 13:42	1
Chromium	155		9.53	0.0696	mg/kg		12/21/10 15:24	12/22/10 13:42	1
Lead	29.8		19.1	0.0667	mg/kg		12/21/10 15:24	12/22/10 13:42	1
Selenium	1.47	J	19.1	0.0858	mg/kg		12/21/10 15:24	12/22/10 13:42	1
Silver	1.04	J	9.53	0.00667	mg/kg		12/21/10 15:24	12/22/10 13:42	1

# Analytical Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

**Client Sample ID: MDA-08**  
**Date Collected: 12/02/10 09:40**  
**Date Received: 12/03/10 13:05**

**Lab Sample ID: HTL0037-13**  
**Matrix: Solid/Soil**  
**Percent Solids: 57.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.106		0.00518	0.000104	mg/kg		12/20/10 09:59	12/20/10 18:29	1

**Client Sample ID: MDA-07**  
**Date Collected: 12/02/10 12:35**  
**Date Received: 12/03/10 13:05**

**Lab Sample ID: HTL0037-14**  
**Matrix: Solid/Soil**  
**Percent Solids: 51**

**Method: EPA 8081 - Organochlorine Pesticides by EPA Method 8081**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	H1, C-06	0.00392	0.00108	mg/kg		12/17/10 08:54	01/05/11 21:42	1
4,4'-DDE	0.00193	H1, C-06 R1, J	0.00392	0.000980	mg/kg		12/17/10 08:54	01/05/11 21:42	1
4,4'-DDT	ND	H1, C-06 A-01b	0.00392	0.000686	mg/kg		12/17/10 08:54	01/05/11 21:42	1
Aldrin	ND	H1, C-06 A-01b	0.00392	0.00147	mg/kg		12/17/10 08:54	01/05/11 21:42	1
alpha-BHC	ND	H1, C-06	0.00392	0.00176	mg/kg		12/17/10 08:54	01/05/11 21:42	1
beta-BHC	0.0143	H1, C-06 R10	0.00392	0.00167	mg/kg		12/17/10 08:54	01/05/11 21:42	1
Chlordane	0.109	H1, C-06	0.0324	0.0137	mg/kg		12/17/10 08:54	01/05/11 21:42	1
delta-BHC	ND	H1, C-06	0.00392	0.00157	mg/kg		12/17/10 08:54	01/05/11 21:42	1
Dieldrin	0.00180	H1, C-06 R10, J	0.00392	0.00137	mg/kg		12/17/10 08:54	01/05/11 21:42	1
Endosulfan I	ND	H1, C-06	0.00392	0.00147	mg/kg		12/17/10 08:54	01/05/11 21:42	1
Endosulfan II	ND	H1, C-06	0.00392	0.000784	mg/kg		12/17/10 08:54	01/05/11 21:42	1
Endosulfan sulfate	ND	H1, C-06	0.00392	0.000980	mg/kg		12/17/10 08:54	01/05/11 21:42	1
Endrin	0.00206	H1, C-06 R1, J	0.00392	0.000980	mg/kg		12/17/10 08:54	01/05/11 21:42	1
Endrin aldehyde	0.00546	H1, C-06 R1	0.00392	0.000686	mg/kg		12/17/10 08:54	01/05/11 21:42	1
Endrin ketone	ND	H1, C-06	0.00392	0.00167	mg/kg		12/17/10 08:54	01/05/11 21:42	1
gamma-BHC (Lindane)	0.00373	H1, C-06 R1, J	0.00392	0.00118	mg/kg		12/17/10 08:54	01/05/11 21:42	1
Heptachlor	ND	H1, C-06	0.00392	0.00137	mg/kg		12/17/10 08:54	01/05/11 21:42	1
Heptachlor epoxide	0.00444	H1, C-06 R1	0.00392	0.00108	mg/kg		12/17/10 08:54	01/05/11 21:42	1
Methoxychlor	ND	H1, C-06 A-01b	0.0196	0.00137	mg/kg		12/17/10 08:54	01/05/11 21:42	1
Toxaphene	ND	H1, C-06	0.0490	0.0490	mg/kg		12/17/10 08:54	01/05/11 21:42	1
alpha-Chlordane	0.00859	H1, C-06 R10	0.00392	0.00176	mg/kg		12/17/10 08:54	01/05/11 21:42	1
gamma-Chlordane	0.00882	H1, C-06 R10	0.00392	0.000980	mg/kg		12/17/10 08:54	01/05/11 21:42	1
<b>Surrogate</b>	<b>% Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Decachlorobiphenyl	112	H1, C-06	45 - 120				12/17/10 08:54	01/05/11 21:42	1
Tetrachloro-meta-xylene	58	H1, C-06	50 - 120				12/17/10 08:54	01/05/11 21:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	15.3		9.57	0.0766	mg/kg		12/21/10 15:24	12/22/10 13:47	1
Barium	23.5		19.1	0.0804	mg/kg		12/21/10 15:24	12/22/10 13:47	1
Cadmium	ND		3.83	0.0775	mg/kg		12/21/10 15:24	12/22/10 13:47	1
Chromium	159		9.57	0.0699	mg/kg		12/21/10 15:24	12/22/10 13:47	1
Lead	20.5		19.1	0.0670	mg/kg		12/21/10 15:24	12/22/10 13:47	1
Selenium	1.01	J	19.1	0.0861	mg/kg		12/21/10 15:24	12/22/10 13:47	1
Silver	1.23	J	9.57	0.00670	mg/kg		12/21/10 15:24	12/22/10 13:47	1

# Analytical Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

**Client Sample ID: MDA-07**  
**Date Collected: 12/02/10 12:35**  
**Date Received: 12/03/10 13:05**

**Lab Sample ID: HTL0037-14**  
**Matrix: Solid/Soil**  
**Percent Solids: 51**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.109		0.0253	0.000506	mg/kg		12/20/10 09:59	12/20/10 18:19	5

**Client Sample ID: MDA-13**  
**Date Collected: 12/02/10 14:40**  
**Date Received: 12/03/10 13:05**

**Lab Sample ID: HTL0037-15**  
**Matrix: Solid/Soil**  
**Percent Solids: 51.3**

**Method: EPA 8081 - Organochlorine Pesticides by EPA Method 8081**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	H1, C-06	0.00375	0.00103	mg/kg		12/17/10 08:54	01/05/11 22:01	1
4,4'-DDE	0.00116	H1, C-06 J	0.00375	0.000937	mg/kg		12/17/10 08:54	01/05/11 22:01	1
4,4'-DDT	ND	H1, C-06 A-01b	0.00375	0.000656	mg/kg		12/17/10 08:54	01/05/11 22:01	1
Aldrin	ND	H1, C-06 A-01b	0.00375	0.00141	mg/kg		12/17/10 08:54	01/05/11 22:01	1
alpha-BHC	ND	H1, C-06	0.00375	0.00169	mg/kg		12/17/10 08:54	01/05/11 22:01	1
beta-BHC	0.0313	H1, C-06	0.00375	0.00159	mg/kg		12/17/10 08:54	01/05/11 22:01	1
Chlordane	0.139	H1, C-06	0.0309	0.0131	mg/kg		12/17/10 08:54	01/05/11 22:01	1
delta-BHC	0.00472	H1, C-06 R1	0.00375	0.00150	mg/kg		12/17/10 08:54	01/05/11 22:01	1
Dieldrin	ND	H1, C-06	0.00375	0.00131	mg/kg		12/17/10 08:54	01/05/11 22:01	1
Endosulfan I	ND	H1, C-06	0.00375	0.00141	mg/kg		12/17/10 08:54	01/05/11 22:01	1
Endosulfan II	ND	H1, C-06	0.00375	0.000750	mg/kg		12/17/10 08:54	01/05/11 22:01	1
Endosulfan sulfate	ND	H1, C-06	0.00375	0.000937	mg/kg		12/17/10 08:54	01/05/11 22:01	1
Endrin	ND	H1, C-06	0.00375	0.000937	mg/kg		12/17/10 08:54	01/05/11 22:01	1
Endrin aldehyde	0.00791	H1, C-06 R1	0.00375	0.000656	mg/kg		12/17/10 08:54	01/05/11 22:01	1
Endrin ketone	ND	H1, C-06	0.00375	0.00159	mg/kg		12/17/10 08:54	01/05/11 22:01	1
gamma-BHC (Lindane)	0.00578	H1, C-06 R1	0.00375	0.00112	mg/kg		12/17/10 08:54	01/05/11 22:01	1
Heptachlor	ND	H1, C-06	0.00375	0.00131	mg/kg		12/17/10 08:54	01/05/11 22:01	1
Heptachlor epoxide	ND	H1, C-06	0.00375	0.00103	mg/kg		12/17/10 08:54	01/05/11 22:01	1
Methoxychlor	0.0129	H1, C-06 A-01b, R10, J	0.0187	0.00131	mg/kg		12/17/10 08:54	01/05/11 22:01	1
Toxaphene	ND	H1, C-06	0.0469	0.0469	mg/kg		12/17/10 08:54	01/05/11 22:01	1
alpha-Chlordane	0.00703	H1, C-06 R10	0.00375	0.00169	mg/kg		12/17/10 08:54	01/05/11 22:01	1
gamma-Chlordane	0.00947	H1, C-06	0.00375	0.000937	mg/kg		12/17/10 08:54	01/05/11 22:01	1
<b>Surrogate</b>	<b>% Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Decachlorobiphenyl	153	H1, C-06 Z1	45 - 120				12/17/10 08:54	01/05/11 22:01	1
Tetrachloro-meta-xylene	60	H1, C-06	50 - 120				12/17/10 08:54	01/05/11 22:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	15.3		9.12	0.0729	mg/kg		12/21/10 15:24	12/22/10 13:52	1
Barium	24.1		18.2	0.0766	mg/kg		12/21/10 15:24	12/22/10 13:52	1
Cadmium	ND		3.65	0.0738	mg/kg		12/21/10 15:24	12/22/10 13:52	1
Chromium	168		9.12	0.0665	mg/kg		12/21/10 15:24	12/22/10 13:52	1
Lead	22.2		18.2	0.0638	mg/kg		12/21/10 15:24	12/22/10 13:52	1
Selenium	0.686	J	18.2	0.0820	mg/kg		12/21/10 15:24	12/22/10 13:52	1
Silver	0.985	J	9.12	0.00638	mg/kg		12/21/10 15:24	12/22/10 13:52	1

# Analytical Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

**Client Sample ID: MDA-13**  
**Date Collected: 12/02/10 14:40**  
**Date Received: 12/03/10 13:05**

**Lab Sample ID: HTL0037-15**  
**Matrix: Solid/Soil**  
**Percent Solids: 51.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0745		0.00590	0.000118	mg/kg		12/20/10 09:59	12/20/10 18:30	1

**Client Sample ID: MDA-14**  
**Date Collected: 12/02/10 16:55**  
**Date Received: 12/03/10 13:05**

**Lab Sample ID: HTL0037-16**  
**Matrix: Solid/Soil**  
**Percent Solids: 56**

**Method: EPA 8081 - Organochlorine Pesticides by EPA Method 8081**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	H1, C-06	0.00392	0.00108	mg/kg		12/17/10 08:54	01/05/11 22:21	1
4,4'-DDE	ND	H1, C-06	0.00392	0.000980	mg/kg		12/17/10 08:54	01/05/11 22:21	1
4,4'-DDT	ND	H1, C-06	0.00392	0.000686	mg/kg		12/17/10 08:54	01/05/11 22:21	1
Aldrin	ND	H1, C-06 A-01b	0.00392	0.00147	mg/kg		12/17/10 08:54	01/05/11 22:21	1
alpha-BHC	ND	H1, C-06	0.00392	0.00176	mg/kg		12/17/10 08:54	01/05/11 22:21	1
beta-BHC	0.0167	H1, C-06 R10	0.00392	0.00167	mg/kg		12/17/10 08:54	01/05/11 22:21	1
Chlordane	0.139	H1, C-06	0.0324	0.0137	mg/kg		12/17/10 08:54	01/05/11 22:21	1
delta-BHC	ND	H1, C-06	0.00392	0.00157	mg/kg		12/17/10 08:54	01/05/11 22:21	1
Dieldrin	ND	H1, C-06	0.00392	0.00137	mg/kg		12/17/10 08:54	01/05/11 22:21	1
Endosulfan I	ND	H1, C-06	0.00392	0.00147	mg/kg		12/17/10 08:54	01/05/11 22:21	1
Endosulfan II	ND	H1, C-06	0.00392	0.000784	mg/kg		12/17/10 08:54	01/05/11 22:21	1
Endosulfan sulfate	ND	H1, C-06	0.00392	0.000980	mg/kg		12/17/10 08:54	01/05/11 22:21	1
Endrin	ND	H1, C-06	0.00392	0.000980	mg/kg		12/17/10 08:54	01/05/11 22:21	1
Endrin aldehyde	0.00742	H1, C-06 R1	0.00392	0.000686	mg/kg		12/17/10 08:54	01/05/11 22:21	1
Endrin ketone	ND	H1, C-06	0.00392	0.00167	mg/kg		12/17/10 08:54	01/05/11 22:21	1
gamma-BHC (Lindane)	0.00399	H1, C-06 R1	0.00392	0.00118	mg/kg		12/17/10 08:54	01/05/11 22:21	1
Heptachlor	ND	H1, C-06	0.00392	0.00137	mg/kg		12/17/10 08:54	01/05/11 22:21	1
Heptachlor epoxide	ND	H1, C-06	0.00392	0.00108	mg/kg		12/17/10 08:54	01/05/11 22:21	1
Methoxychlor	0.0387	H1, C-06 A-01b	0.0196	0.00137	mg/kg		12/17/10 08:54	01/05/11 22:21	1
Toxaphene	ND	H1, C-06	0.0490	0.0490	mg/kg		12/17/10 08:54	01/05/11 22:21	1
alpha-Chlordane	0.0102	H1, C-06 R10	0.00392	0.00176	mg/kg		12/17/10 08:54	01/05/11 22:21	1
gamma-Chlordane	0.0143	H1, C-06	0.00392	0.000980	mg/kg		12/17/10 08:54	01/05/11 22:21	1
<b>Surrogate</b>	<b>% Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Decachlorobiphenyl	114	H1, C-06	45 - 120				12/17/10 08:54	01/05/11 22:21	1
Tetrachloro-meta-xylene	58	H1, C-06	50 - 120				12/17/10 08:54	01/05/11 22:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	14.6		10.0	0.0801	mg/kg		12/21/10 15:24	12/22/10 13:57	1
Barium	23.3		20.0	0.0841	mg/kg		12/21/10 15:24	12/22/10 13:57	1
Cadmium	ND		4.00	0.0811	mg/kg		12/21/10 15:24	12/22/10 13:57	1
Chromium	154		10.0	0.0731	mg/kg		12/21/10 15:24	12/22/10 13:57	1
Lead	13.7	J	20.0	0.0701	mg/kg		12/21/10 15:24	12/22/10 13:57	1
Selenium	1.40	J	20.0	0.0901	mg/kg		12/21/10 15:24	12/22/10 13:57	1
Silver	1.10	J	10.0	0.00701	mg/kg		12/21/10 15:24	12/22/10 13:57	1

# Analytical Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

**Client Sample ID: MDA-14**  
**Date Collected: 12/02/10 16:55**  
**Date Received: 12/03/10 13:05**

**Lab Sample ID: HTL0037-16**  
**Matrix: Solid/Soil**  
**Percent Solids: 56**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0714		0.00534	0.000107	mg/kg		12/20/10 09:59	12/20/10 18:32	1

- 1
- 2
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- 14

# Surrogate Summary

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

## Method: EPA 8270C - SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3520C/8270C)

Matrix: Water

Prep Type: total

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (50-120)	2FP (30-120)	NBZ (45-120)	PHL (35-120)	TPH (50-125)	TBP (40-120)
10L1268-BLK1	10L1268-BLK1	81	67	72	68	100	76
10L1268-BS1	10L1268-BS1	76 MNR1	58 MNR1	68 MNR1	62 MNR1	96 MNR1	73 MNR1
10L1268-BSD1	10L1268-BSD1	72	50	64	55	90	70

**Surrogate Legend**

FBP = 2-Fluorobiphenyl  
2FP = 2-Fluorophenol  
NBZ = Nitrobenzene-d5  
PHL = Phenol-d6  
TPH = Terphenyl-d14  
TBP = 2,4,6-Tribromophenol

## Method: EPA 8270C - SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3520C/8270C)

Matrix: Water - NonPotable

Prep Type: total

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (50-120)	2FP (30-120)	NBZ (45-120)	PHL (35-120)	TPH (50-125)	TBP (40-120)
HTL0037-03	EB-101129	75 H3, RL4	58 H3, RL4	64 H3, RL4	59 H3, RL4	98 H3, RL4	76 H3, RL4
HTL0037-10	EB-101130	82 H3, RL4	63 H3, RL4	70 H3, RL4	68 H3, RL4	95 H3, RL4	75 H3, RL4

**Surrogate Legend**

FBP = 2-Fluorobiphenyl  
2FP = 2-Fluorophenol  
NBZ = Nitrobenzene-d5  
PHL = Phenol-d6  
TPH = Terphenyl-d14  
TBP = 2,4,6-Tribromophenol

## Method: EPA 8270C - SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3546/8270C)

Matrix: Soil

Prep Type: total

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (35-125)	FBP (35-120)	2FP (25-120)	NBZ (30-120)	PHL (35-120)	TPH (40-135)
10L1385-BLK1	10L1385-BLK1	75	75	70	63	69	98
10L1385-BS1	10L1385-BS1	88 MNR	71 MNR	81 MNR	71 MNR	84 MNR	86 MNR

**Surrogate Legend**

TBP = 2,4,6-Tribromophenol  
FBP = 2-Fluorobiphenyl  
2FP = 2-Fluorophenol  
NBZ = Nitrobenzene-d5  
PHL = Phenol-d6  
TPH = Terphenyl-d14

# Surrogate Summary

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

## Method: EPA 8270C - SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3546/8270C)

Matrix: Solid/Soil

Prep Type: total

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (35-125)	FBP (35-120)	2FP (25-120)	NBZ (30-120)	PHL (35-120)	TPH (40-135)
HTL0037-01	FHMA-01	63	63	54	48	58	92
HTL0037-02	FHMA-02	61 RL1	64 RL1	55 RL1	51 RL1	58 RL1	86 RL1
HTL0037-04	FHMA-03	47 RL1	56 RL1	45 RL1	45 RL1	49 RL1	75 RL1
HTL0037-05	FHMA-04	52 RL1	56 RL1	49 RL1	43 RL1	53 RL1	79 RL1
HTL0037-06	FHMA-05	67 RL1	66 RL1	55 RL1	50 RL1	58 RL1	89 RL1
HTL0037-07	FHMA-06	62 RL1	73 RL1	61 RL1	54 RL1	65 RL1	100 RL1
HTL0037-08	FHMA-11	Z3	Z3	Z3	Z3	Z3	Z3
		64 RL1	71 RL1	60 RL1	49 RL1	67 RL1	97 RL1
HTL0037-09	FHMA-12	Z3	Z3	Z3	Z3	Z3	Z3
		58 RL1	67 RL1	55 RL1	48 RL1	58 RL1	86 RL1
		Z3	Z3	Z3	Z3	Z3	Z3

**Surrogate Legend**

- TBP = 2,4,6-Tribromophenol
- FBP = 2-Fluorobiphenyl
- 2FP = 2-Fluorophenol
- NBZ = Nitrobenzene-d5
- PHL = Phenol-d6
- 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)	loro-meta- (50-120)
10L0058-BLK1	10L0058-BLK1	93	77
10L0058-BS1	10L0058-BS1	112	74
10L0058-MS1	FHMA-04	122 Z5	68
10L0058-MSD1	FHMA-04	130 Z5, R1	60
10L0128-BLK1	10L0128-BLK1	98 C-06	62 C-06
10L0128-BS1	10L0128-BS1	87	81
10L0128-BS2	10L0128-BS2	74 C-06	64 C-06
10L0128-MS1	MDA-10	124 C-06 Z1	55 C-06
10L0128-MSD1	MDA-10	180 C-06 Z1, R1	58 C-06
HTL0037-01	FHMA-01	118	68
HTL0037-02	FHMA-02	128 Z5, R1	71
HTL0037-04	FHMA-03	170 Z5, R1	66
HTL0037-05	FHMA-04	112	68
HTL0037-06	FHMA-05	118 R1	61
HTL0037-07	FHMA-06	134 Z5, R1	67
HTL0037-08	FHMA-11	125 Z5, R1	63
HTL0037-09	FHMA-12	126 Z5, R1	66
HTL0037-11	MDA-10	205 H1, C-06 Z1	61 H1, C-06
HTL0037-12	MDA-09	104 H1, C-06	57 H1, C-06
HTL0037-13	MDA-08	106 C-06, H1	66 C-06, H1

# Surrogate Summary

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

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

Matrix: Solid/Soil

Prep Type: total

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCB (45-120)	tloro-meta- (50-120)
HTL0037-14	MDA-07	112 H1, C-06	58 H1, C-06
HTL0037-15	MDA-13	153 H1, C-06 Z1	60 H1, C-06
HTL0037-16	MDA-14	114 H1, C-06	58 H1, C-06
<b>Surrogate Legend</b>			
DCB = Decachlorobiphenyl			
Tetrachloro-meta-xylene = Tetrachloro-meta-xylene			

## Method: EPA 8081 - Organochlorine Pesticides by EPA Method 8081

Matrix: Water - NonPotable

Prep Type: total

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCB (35-135)	tloro-meta- (35-135)
10L0064-BLK1	10L0064-BLK1	72	60
10L0064-BS1	10L0064-BS1	81	62
10L0064-BSD1	10L0064-BSD1	74	62
HTL0037-03	EB-101129	24 H4 Z5	60 H4
HTL0037-10	EB-101130	56 H4	61 H4
<b>Surrogate Legend</b>			
DCB = Decachlorobiphenyl			
Tetrachloro-meta-xylene = Tetrachloro-meta-xylene			

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# Quality Control Data

Client: Weston Solutions, Inc.  
 Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
 SDG: HTL0037

## Method: EPA 8270C - SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3520C/8270C)

**Lab Sample ID: 10L1268-BLK1**

**Matrix: Water**

**Analysis Batch: 10L1268**

**Client Sample ID: 10L1268-BLK1**

**Prep Type: total**

**Prep Batch: 10L1268\_P**

Analyte	Blank	Blank	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
Acenaphthylene	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
Aniline	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
Anthracene	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
Benzidine	ND		20		ug/l		12/10/10 11:58	12/13/10 13:10	1
Benzo(a)anthracene	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
Benzo(a)pyrene	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
Benzo(b)fluoranthene	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
Benzoic acid	ND		20		ug/l		12/10/10 11:58	12/13/10 13:10	1
Benzo(g,h,i)perylene	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
Benzo(k)fluoranthene	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
Benzyl alcohol	ND		20		ug/l		12/10/10 11:58	12/13/10 13:10	1
4-Bromophenyl phenyl ether	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
Butyl benzyl phthalate	ND		20		ug/l		12/10/10 11:58	12/13/10 13:10	1
4-Chloro-3-methylphenol	ND		20		ug/l		12/10/10 11:58	12/13/10 13:10	1
4-Chloroaniline	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
Bis(2-chloroethoxy)methane	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
Bis(2-chloroethyl)ether	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
Bis(2-chloroisopropyl)ether	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
2-Chloronaphthalene	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
2-Chlorophenol	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
4-Chlorophenyl phenyl ether	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
Chrysene	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
Dibenz(a,h)anthracene	ND		20		ug/l		12/10/10 11:58	12/13/10 13:10	1
Dibenzofuran	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
Di-n-butyl phthalate	ND		20		ug/l		12/10/10 11:58	12/13/10 13:10	1
1,2-Dichlorobenzene	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
1,3-Dichlorobenzene	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
1,4-Dichlorobenzene	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
3,3'-Dichlorobenzidine	ND		20		ug/l		12/10/10 11:58	12/13/10 13:10	1
2,4-Dichlorophenol	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
Diethyl phthalate	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
2,4-Dimethylphenol	ND		20		ug/l		12/10/10 11:58	12/13/10 13:10	1
Dimethyl phthalate	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
1,2-Diphenylhydrazine/Azobenzene	ND		20		ug/l		12/10/10 11:58	12/13/10 13:10	1
4,6-Dinitro-2-methylphenol	ND		20		ug/l		12/10/10 11:58	12/13/10 13:10	1
2,4-Dinitrophenol	ND		20		ug/l		12/10/10 11:58	12/13/10 13:10	1
2,4-Dinitrotoluene	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
2,6-Dinitrotoluene	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
Di-n-octyl phthalate	ND		20		ug/l		12/10/10 11:58	12/13/10 13:10	1
Fluoranthene	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
Fluorene	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
Hexachlorobenzene	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
Hexachlorobutadiene	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
Hexachlorocyclopentadiene	ND		20		ug/l		12/10/10 11:58	12/13/10 13:10	1
Hexachloroethane	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
Indeno(1,2,3-cd)pyrene	ND		20		ug/l		12/10/10 11:58	12/13/10 13:10	1
Isophorone	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
2-Methylnaphthalene	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1

# Quality Control Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

## Method: EPA 8270C - SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3520C/8270C) (Continued)

**Lab Sample ID: 10L1268-BLK1**  
**Matrix: Water**  
**Analysis Batch: 10L1268**

**Client Sample ID: 10L1268-BLK1**  
**Prep Type: total**  
**Prep Batch: 10L1268\_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
3/4-Methylphenol	ND		20		ug/l		12/10/10 11:58	12/13/10 13:10	1
Naphthalene	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
2-Nitroaniline	ND		20		ug/l		12/10/10 11:58	12/13/10 13:10	1
3-Nitroaniline	ND		20		ug/l		12/10/10 11:58	12/13/10 13:10	1
4-Nitroaniline	ND		20		ug/l		12/10/10 11:58	12/13/10 13:10	1
Nitrobenzene	ND		20		ug/l		12/10/10 11:58	12/13/10 13:10	1
2-Nitrophenol	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
4-Nitrophenol	ND		20		ug/l		12/10/10 11:58	12/13/10 13:10	1
N-Nitrosodimethylamine	ND		20		ug/l		12/10/10 11:58	12/13/10 13:10	1
N-Nitrosodiphenylamine	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
N-Nitroso-di-n-propylamine	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
Pentachlorophenol	ND		20		ug/l		12/10/10 11:58	12/13/10 13:10	1
Phenanthrene	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
Phenol	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
Pyrene	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
Pyridine	ND		20		ug/l		12/10/10 11:58	12/13/10 13:10	1
1,2,4-Trichlorobenzene	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
2,4,5-Trichlorophenol	ND		20		ug/l		12/10/10 11:58	12/13/10 13:10	1
2,4,6-Trichlorophenol	ND		20		ug/l		12/10/10 11:58	12/13/10 13:10	1
Acetophenone	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
1-Chloronaphthalene	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
4-Aminobiphenyl	ND		15		ug/l		12/10/10 11:58	12/13/10 13:10	1
2,6-Dichlorophenol	ND		15		ug/l		12/10/10 11:58	12/13/10 13:10	1
Dimethylaminoazobenzene	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
7,12-Dimethylbenz[a]anthracene	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
a,a-Dimethylphenethylamine	ND		120		ug/l		12/10/10 11:58	12/13/10 13:10	1
Ethyl methanesulfonate	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
Dibenz[a,j]acridine	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
3-Methylcholanthrene	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
Methyl methanesulfonate	ND		15		ug/l		12/10/10 11:58	12/13/10 13:10	1
1-Naphthylamine	ND		15		ug/l		12/10/10 11:58	12/13/10 13:10	1
2-Naphthylamine	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
N-Nitrosodi-n-butylamine	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
N-Nitrosopiperidine	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
Pentachloronitrobenzene	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
Phenacetin	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
2-Picoline	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
Pronamide	ND		15		ug/l		12/10/10 11:58	12/13/10 13:10	1
1,2,4,5-Tetrachlorobenzene	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1
2,3,4,6-Tetrachlorophenol	ND		15		ug/l		12/10/10 11:58	12/13/10 13:10	1
1-Methylnaphthalene	ND		10		ug/l		12/10/10 11:58	12/13/10 13:10	1

Surrogate	Blank % Recovery	Blank Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		50 - 120	12/10/10 11:58	12/13/10 13:10	1
2-Fluorophenol	67		30 - 120	12/10/10 11:58	12/13/10 13:10	1
Nitrobenzene-d5	72		45 - 120	12/10/10 11:58	12/13/10 13:10	1
Phenol-d6	68		35 - 120	12/10/10 11:58	12/13/10 13:10	1
Terphenyl-d14	100		50 - 125	12/10/10 11:58	12/13/10 13:10	1

# Quality Control Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

## Method: EPA 8270C - SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3520C/8270C) (Continued)

**Lab Sample ID: 10L1268-BLK1**  
**Matrix: Water**  
**Analysis Batch: 10L1268**

**Client Sample ID: 10L1268-BLK1**  
**Prep Type: total**  
**Prep Batch: 10L1268\_P**

Surrogate	Blank % Recovery	Blank Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	76		40 - 120	12/10/10 11:58	12/13/10 13:10	1

**Lab Sample ID: 10L1268-BS1**  
**Matrix: Water**  
**Analysis Batch: 10L1268**

**Client Sample ID: 10L1268-BS1**  
**Prep Type: total**  
**Prep Batch: 10L1268\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec.	
							Limits	Limits
Acenaphthene	100	79.1	MNR1	ug/l		79	60 - 120	
Acenaphthylene	100	82.3	MNR1	ug/l		82	60 - 120	
Aniline	100	60.1	MNR1	ug/l		60	35 - 120	
Anthracene	100	86.4	MNR1	ug/l		86	65 - 120	
Benzidine	100	143	MNR1	ug/l		143	30 - 160	
Benzo(a)anthracene	100	83.9	MNR1	ug/l		84	65 - 120	
Benzo(a)pyrene	100	92.3	MNR1	ug/l		92	55 - 130	
Benzo(b)fluoranthene	100	84.3	MNR1	ug/l		84	55 - 125	
Benzoic acid	100	72.1	MNR1	ug/l		72	25 - 120	
Benzo(g,h,i)perylene	100	93.7	MNR1	ug/l		94	45 - 135	
Benzo(k)fluoranthene	100	92.3	MNR1	ug/l		92	50 - 125	
Benzyl alcohol	100	71.9	MNR1	ug/l		72	50 - 120	
4-Bromophenyl phenyl ether	100	82.2	MNR1	ug/l		82	60 - 120	
Butyl benzyl phthalate	100	94.9	MNR1	ug/l		95	55 - 130	
4-Chloro-3-methylphenol	100	74.3	MNR1	ug/l		74	60 - 120	
4-Chloroaniline	100	77.8	MNR1	ug/l		78	55 - 120	
Bis(2-chloroethoxy)methane	100	74.5	MNR1	ug/l		74	55 - 120	
Bis(2-chloroethyl)ether	100	69.6	MNR1	ug/l		70	50 - 120	
Bis(2-chloroisopropyl)ether	100	71.8	MNR1	ug/l		72	45 - 120	
2-Chloronaphthalene	100	77.2	MNR1	ug/l		77	60 - 120	
2-Chlorophenol	100	72.0	MNR1	ug/l		72	45 - 120	
4-Chlorophenyl phenyl ether	100	86.8	MNR1	ug/l		87	65 - 120	
Chrysene	100	86.7	MNR1	ug/l		87	65 - 120	
Dibenz(a,h)anthracene	100	90.9	MNR1	ug/l		91	50 - 135	
Dibenzofuran	100	78.6	MNR1	ug/l		79	65 - 120	
Di-n-butyl phthalate	100	85.3	MNR1	ug/l		85	60 - 125	
1,2-Dichlorobenzene	100	66.0	MNR1	ug/l		66	40 - 120	
1,3-Dichlorobenzene	100	63.2	MNR1	ug/l		63	35 - 120	
1,4-Dichlorobenzene	100	64.3	MNR1	ug/l		64	35 - 120	
3,3'-Dichlorobenzidine	100	74.8	MNR1	ug/l		75	45 - 135	
2,4-Dichlorophenol	100	83.8	MNR1	ug/l		84	55 - 120	
Diethyl phthalate	100	83.9	MNR1	ug/l		84	55 - 120	
2,4-Dimethylphenol	100	65.4	MNR1	ug/l		65	40 - 120	
Dimethyl phthalate	100	80.9	MNR1	ug/l		81	30 - 120	
1,2-Diphenylhydrazine/Azobenzene	100	70.1	MNR1	ug/l		70	60 - 120	
4,6-Dinitro-2-methylphenol	100	92.8	MNR1	ug/l		93	45 - 120	
2,4-Dinitrophenol	100	106	MNR1	ug/l		106	40 - 120	
2,4-Dinitrotoluene	100	91.6	MNR1	ug/l		92	65 - 120	
2,6-Dinitrotoluene	100	87.0	MNR1	ug/l		87	65 - 120	
Di-n-octyl phthalate	100	100	MNR1	ug/l		100	65 - 135	
Fluoranthene	100	88.7	MNR1	ug/l		89	60 - 120	
Fluorene	100	83.3	MNR1	ug/l		83	65 - 120	

# Quality Control Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

## Method: EPA 8270C - SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3520C/8270C) (Continued)

**Lab Sample ID: 10L1268-BS1**  
**Matrix: Water**  
**Analysis Batch: 10L1268**

**Client Sample ID: 10L1268-BS1**  
**Prep Type: total**  
**Prep Batch: 10L1268\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec.	
							Limits	
Hexachlorobenzene	100	78.7	MNR1	ug/l		79	60 - 120	
Hexachlorobutadiene	100	72.2	MNR1	ug/l		72	40 - 120	
Hexachlorocyclopentadiene	100	73.8	MNR1	ug/l		74	25 - 120	
Hexachloroethane	100	58.7	MNR1	ug/l		59	35 - 120	
Indeno(1,2,3-cd)pyrene	100	90.6	MNR1	ug/l		91	45 - 135	
Isophorone	100	73.3	MNR1	ug/l		73	50 - 120	
2-Methylnaphthalene	100	78.9	MNR1	ug/l		79	55 - 120	
2-Methylphenol	100	68.3	MNR1	ug/l		68	50 - 120	
Naphthalene	100	73.1	MNR1	ug/l		73	55 - 120	
2-Nitroaniline	100	70.1	MNR1	ug/l		70	65 - 120	
3-Nitroaniline	100	83.7	MNR1	ug/l		84	60 - 120	
4-Nitroaniline	100	89.0	MNR1	ug/l		89	55 - 125	
Nitrobenzene	100	68.4	MNR1	ug/l		68	55 - 120	
2-Nitrophenol	100	81.3	MNR1	ug/l		81	50 - 120	
4-Nitrophenol	100	62.2	MNR1	ug/l		62	45 - 120	
N-Nitrosodimethylamine	100	49.7	MNR1	ug/l		50	45 - 120	
N-Nitrosodiphenylamine	100	81.9	MNR1	ug/l		82	60 - 120	
N-Nitroso-di-n-propylamine	100	73.8	MNR1	ug/l		74	45 - 120	
Pentachlorophenol	100	77.2	MNR1	ug/l		77	24 - 121	
Phenanthrene	100	85.2	MNR1	ug/l		85	65 - 120	
Phenol	100	61.5	MNR1	ug/l		61	40 - 120	
Pyrene	100	92.2	MNR1	ug/l		92	55 - 125	
Pyridine	100	36.0	MNR1	ug/l		36	30 - 120	
1,2,4-Trichlorobenzene	100	77.3	MNR1	ug/l		77	45 - 120	
2,4,5-Trichlorophenol	100	85.9	MNR1	ug/l		86	55 - 120	
2,4,6-Trichlorophenol	100	90.7	MNR1	ug/l		91	55 - 120	

Surrogate	LCS LCS		Limits
	% Recovery	Qualifier	
2-Fluorobiphenyl	76	MNR1	50 - 120
2-Fluorophenol	58	MNR1	30 - 120
Nitrobenzene-d5	68	MNR1	45 - 120
Phenol-d6	62	MNR1	35 - 120
Terphenyl-d14	96	MNR1	50 - 125
2,4,6-Tribromophenol	73	MNR1	40 - 120

**Lab Sample ID: 10L1268-BSD1**  
**Matrix: Water**  
**Analysis Batch: 10L1268**

**Client Sample ID: 10L1268-BSD1**  
**Prep Type: total**  
**Prep Batch: 10L1268\_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec.		RPD	
							Limits	RPD	Limit	
Acenaphthene	100	79.2		ug/l		79	60 - 120	0.2	20	
Acenaphthylene	100	77.6		ug/l		78	60 - 120	6	20	
Aniline	100	64.1		ug/l		64	35 - 120	6	30	
Anthracene	100	80.7		ug/l		81	65 - 120	7	20	
Benzdine	100	147		ug/l		147	30 - 160	3	35	
Benzo(a)anthracene	100	79.2		ug/l		79	65 - 120	6	20	
Benzo(a)pyrene	100	86.8		ug/l		87	55 - 130	6	25	
Benzo(b)fluoranthene	100	79.8		ug/l		80	55 - 125	5	25	
Benzoic acid	100	65.2		ug/l		65	25 - 120	10	30	

# Quality Control Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

## Method: EPA 8270C - SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3520C/8270C) (Continued)

**Lab Sample ID: 10L1268-BSD1**

**Matrix: Water**

**Analysis Batch: 10L1268**

**Client Sample ID: 10L1268-BSD1**

**Prep Type: total**

**Prep Batch: 10L1268\_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec.		RPD	Limit
							Limits	RPD		
Benzo(g,h,i)perylene	100	98.9		ug/l		99	45 - 135	5	25	
Benzo(k)fluoranthene	100	87.3		ug/l		87	50 - 125	6	20	
Benzyl alcohol	100	67.4		ug/l		67	50 - 120	6	20	
4-Bromophenyl phenyl ether	100	75.7		ug/l		76	60 - 120	8	25	
Butyl benzyl phthalate	100	85.9		ug/l		86	55 - 130	10	20	
4-Chloro-3-methylphenol	100	69.1		ug/l		69	60 - 120	7	25	
4-Chloroaniline	100	74.2		ug/l		74	55 - 120	5	25	
Bis(2-chloroethoxy)methane	100	69.3		ug/l		69	55 - 120	7	20	
Bis(2-chloroethyl)ether	100	65.1		ug/l		65	50 - 120	7	20	
Bis(2-chloroisopropyl)ether	100	65.5		ug/l		65	45 - 120	9	20	
2-Chloronaphthalene	100	73.0		ug/l		73	60 - 120	6	20	
2-Chlorophenol	100	64.1		ug/l		64	45 - 120	12	25	
4-Chlorophenyl phenyl ether	100	81.2		ug/l		81	65 - 120	7	20	
Chrysene	100	81.6		ug/l		82	65 - 120	6	20	
Dibenz(a,h)anthracene	100	86.0		ug/l		86	50 - 135	5	25	
Dibenzofuran	100	73.4		ug/l		73	65 - 120	7	20	
Di-n-butyl phthalate	100	80.3		ug/l		80	60 - 125	6	20	
1,2-Dichlorobenzene	100	59.6		ug/l		60	40 - 120	10	25	
1,3-Dichlorobenzene	100	56.1		ug/l		56	35 - 120	12	25	
1,4-Dichlorobenzene	100	57.3		ug/l		57	35 - 120	11	25	
3,3'-Dichlorobenzidine	100	71.1		ug/l		71	45 - 135	5	25	
2,4-Dichlorophenol	100	77.6		ug/l		78	55 - 120	8	20	
Diethyl phthalate	100	79.8		ug/l		80	55 - 120	5	30	
2,4-Dimethylphenol	100	60.6		ug/l		61	40 - 120	8	25	
Dimethyl phthalate	100	76.7		ug/l		77	30 - 120	5	30	
1,2-Diphenylhydrazine/Azobenzene	100	66.3		ug/l		66	60 - 120	6	25	
4,6-Dinitro-2-methylphenol	100	88.3		ug/l		88	45 - 120	5	25	
2,4-Dinitrophenol	100	103		ug/l		103	40 - 120	3	25	
2,4-Dinitrotoluene	100	88.6		ug/l		89	65 - 120	3	20	
2,6-Dinitrotoluene	100	84.0		ug/l		84	65 - 120	4	20	
Di-n-octyl phthalate	100	92.6		ug/l		93	65 - 135	8	20	
Fluoranthene	100	84.7		ug/l		85	60 - 120	5	20	
Fluorene	100	78.7		ug/l		79	65 - 120	6	20	
Hexachlorobenzene	100	73.8		ug/l		74	60 - 120	6	20	
Hexachlorobutadiene	100	63.5		ug/l		64	40 - 120	13	25	
Hexachlorocyclopentadiene	100	68.2		ug/l		68	25 - 120	8	30	
Hexachloroethane	100	51.1		ug/l		51	35 - 120	14	25	
Indeno(1,2,3-cd)pyrene	100	88.5		ug/l		88	45 - 135	2	25	
Isophorone	100	68.7		ug/l		69	50 - 120	7	20	
2-Methylnaphthalene	100	72.8		ug/l		73	55 - 120	8	20	
2-Methylphenol	100	63.4		ug/l		63	50 - 120	7	20	
Naphthalene	100	67.3		ug/l		67	55 - 120	8	20	
2-Nitroaniline	100	66.2		ug/l		66	65 - 120	6	20	
3-Nitroaniline	100	81.5		ug/l		82	60 - 120	3	25	
4-Nitroaniline	100	84.8		ug/l		85	55 - 125	5	20	
Nitrobenzene	100	63.8		ug/l		64	55 - 120	7	25	
2-Nitrophenol	100	75.6		ug/l		76	50 - 120	7	25	
4-Nitrophenol	100	60.2		ug/l		60	45 - 120	3	30	
N-Nitrosodimethylamine	100	45.8		ug/l		46	45 - 120	8	20	

# Quality Control Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

## Method: EPA 8270C - SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3520C/8270C) (Continued)

**Lab Sample ID: 10L1268-BSD1**  
**Matrix: Water**  
**Analysis Batch: 10L1268**

**Client Sample ID: 10L1268-BSD1**  
**Prep Type: total**  
**Prep Batch: 10L1268\_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec.		RPD
							Limits	RPD	
N-Nitrosodiphenylamine	100	76.4		ug/l		76	60 - 120	7	20
N-Nitroso-di-n-propylamine	100	68.1		ug/l		68	45 - 120	8	20
Pentachlorophenol	100	72.8		ug/l		73	24 - 121	6	25
Phenanthrene	100	78.9		ug/l		79	65 - 120	8	20
Phenol	100	55.5		ug/l		56	40 - 120	10	25
Pyrene	100	85.7		ug/l		86	55 - 125	7	25
Pyridine	100	36.1		ug/l		36	30 - 120	0.3	30
1,2,4-Trichlorobenzene	100	68.8		ug/l		69	45 - 120	12	20
2,4,5-Trichlorophenol	100	82.0		ug/l		82	55 - 120	5	30
2,4,6-Trichlorophenol	100	86.3		ug/l		86	55 - 120	5	30

Surrogate	LCS Dup % Recovery	LCS Dup Qualifier	Limits
2-Fluorobiphenyl	72		50 - 120
2-Fluorophenol	50		30 - 120
Nitrobenzene-d5	64		45 - 120
Phenol-d6	55		35 - 120
Terphenyl-d14	90		50 - 125
2,4,6-Tribromophenol	70		40 - 120

**Lab Sample ID: 10L1385-BLK1**  
**Matrix: Soil**  
**Analysis Batch: 10L1385**

**Client Sample ID: 10L1385-BLK1**  
**Prep Type: total**  
**Prep Batch: 10L1385\_P**

Analyte	Blank		RL	MDL	Unit	D	Prepared		Analyzed		Dil Fac
	Result	Qualifier									
Acenaphthene	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10		1	
Acenaphthylene	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10		1	
Aniline	ND		420		ug/kg		12/12/10 11:14	12/13/10 18:10		1	
Anthracene	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10		1	
Benzidine	ND		660		ug/kg		12/12/10 11:14	12/13/10 18:10		1	
Benzo(a)anthracene	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10		1	
Benzo(a)pyrene	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10		1	
Benzo(b)fluoranthene	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10		1	
Benzo(g,h,i)perylene	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10		1	
Benzo(k)fluoranthene	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10		1	
Benzoic acid	ND		830		ug/kg		12/12/10 11:14	12/13/10 18:10		1	
Benzyl alcohol	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10		1	
4-Bromophenyl phenyl ether	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10		1	
Butyl benzyl phthalate	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10		1	
4-Chloro-3-methylphenol	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10		1	
4-Chloroaniline	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10		1	
Bis(2-chloroethoxy)methane	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10		1	
Bis(2-chloroethyl)ether	ND		170		ug/kg		12/12/10 11:14	12/13/10 18:10		1	
Bis(2-chloroisopropyl)ether	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10		1	
2-Chloronaphthalene	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10		1	
2-Chlorophenol	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10		1	
4-Chlorophenyl phenyl ether	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10		1	
Chrysene	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10		1	
Dibenz(a,h)anthracene	ND		420		ug/kg		12/12/10 11:14	12/13/10 18:10		1	
Dibenzofuran	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10		1	

# Quality Control Data

Client: Weston Solutions, Inc.  
 Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
 SDG: HTL0037

## Method: EPA 8270C - SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3546/8270C) (Continued)

**Lab Sample ID: 10L1385-BLK1**  
**Matrix: Soil**  
**Analysis Batch: 10L1385**

**Client Sample ID: 10L1385-BLK1**  
**Prep Type: total**  
**Prep Batch: 10L1385\_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10	1
1,2-Dichlorobenzene	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10	1
1,3-Dichlorobenzene	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10	1
1,4-Dichlorobenzene	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10	1
3,3'-Dichlorobenzidine	ND		830		ug/kg		12/12/10 11:14	12/13/10 18:10	1
2,4-Dichlorophenol	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10	1
Diethyl phthalate	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10	1
2,4-Dimethylphenol	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10	1
Dimethyl phthalate	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10	1
4,6-Dinitro-2-methylphenol	ND		420		ug/kg		12/12/10 11:14	12/13/10 18:10	1
2,4-Dinitrophenol	ND		660		ug/kg		12/12/10 11:14	12/13/10 18:10	1
2,4-Dinitrotoluene	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10	1
2,6-Dinitrotoluene	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10	1
Di-n-octyl phthalate	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10	1
1,2-Diphenylhydrazine/Azobenzene	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10	1
Fluoranthene	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10	1
Fluorene	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10	1
Hexachlorobenzene	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10	1
Hexachlorobutadiene	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10	1
Hexachlorocyclopentadiene	ND		830		ug/kg		12/12/10 11:14	12/13/10 18:10	1
Hexachloroethane	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10	1
Indeno(1,2,3-cd)pyrene	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10	1
Isophorone	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10	1
2-Methylnaphthalene	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10	1
2-Methylphenol	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10	1
Naphthalene	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10	1
2-Nitroaniline	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10	1
3-Nitroaniline	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10	1
4-Nitroaniline	ND		830		ug/kg		12/12/10 11:14	12/13/10 18:10	1
Nitrobenzene	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10	1
2-Nitrophenol	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10	1
4-Nitrophenol	ND		830		ug/kg		12/12/10 11:14	12/13/10 18:10	1
N-Nitroso-di-n-propylamine	ND		250		ug/kg		12/12/10 11:14	12/13/10 18:10	1
N-Nitrosodimethylamine	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10	1
N-Nitrosodiphenylamine	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10	1
Pentachlorophenol	ND		830		ug/kg		12/12/10 11:14	12/13/10 18:10	1
Phenanthrene	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10	1
Phenol	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10	1
Pyrene	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10	1
Pyridine	ND		200		ug/kg		12/12/10 11:14	12/13/10 18:10	1
1,2,4-Trichlorobenzene	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10	1
2,4,5-Trichlorophenol	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10	1
2,4,6-Trichlorophenol	ND		330		ug/kg		12/12/10 11:14	12/13/10 18:10	1
Acetophenone	ND		350		ug/kg		12/12/10 11:14	12/13/10 18:10	1
4-Aminobiphenyl	ND		400		ug/kg		12/12/10 11:14	12/13/10 18:10	1
1-Chloronaphthalene	ND		350		ug/kg		12/12/10 11:14	12/13/10 18:10	1
Dibenz[a,j]acridine	ND		350		ug/kg		12/12/10 11:14	12/13/10 18:10	1
2,6-Dichlorophenol	ND		450		ug/kg		12/12/10 11:14	12/13/10 18:10	1
Dimethylaminoazobenzene	ND		400		ug/kg		12/12/10 11:14	12/13/10 18:10	1
7,12-Dimethylbenz[a]anthracene	ND		400		ug/kg		12/12/10 11:14	12/13/10 18:10	1

# Quality Control Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

## Method: EPA 8270C - SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3546/8270C) (Continued)

**Lab Sample ID: 10L1385-BLK1**  
**Matrix: Soil**  
**Analysis Batch: 10L1385**

**Client Sample ID: 10L1385-BLK1**  
**Prep Type: total**  
**Prep Batch: 10L1385\_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
a,a-Dimethylphenethylamine	ND		4000		ug/kg		12/12/10 11:14	12/13/10 18:10	1
Ethyl methanesulfonate	ND		350		ug/kg		12/12/10 11:14	12/13/10 18:10	1
1-Methylnaphthalene	ND		350		ug/kg		12/12/10 11:14	12/13/10 18:10	1
3-Methylcholanthrene	ND		350		ug/kg		12/12/10 11:14	12/13/10 18:10	1
Methyl methanesulfonate	ND		250		ug/kg		12/12/10 11:14	12/13/10 18:10	1
1-Naphthylamine	ND		500		ug/kg		12/12/10 11:14	12/13/10 18:10	1
2-Naphthylamine	ND		500		ug/kg		12/12/10 11:14	12/13/10 18:10	1
N-Nitrosodi-n-butylamine	ND		400		ug/kg		12/12/10 11:14	12/13/10 18:10	1
N-Nitrosopiperidine	ND		300		ug/kg		12/12/10 11:14	12/13/10 18:10	1
Pentachloronitrobenzene	ND		500		ug/kg		12/12/10 11:14	12/13/10 18:10	1
Phenacetin	ND		350		ug/kg		12/12/10 11:14	12/13/10 18:10	1
2-Picoline	ND		300		ug/kg		12/12/10 11:14	12/13/10 18:10	1
Pronamide	ND		450		ug/kg		12/12/10 11:14	12/13/10 18:10	1
1,2,4,5-Tetrachlorobenzene	ND		350		ug/kg		12/12/10 11:14	12/13/10 18:10	1
2,3,4,6-Tetrachlorophenol	ND		350		ug/kg		12/12/10 11:14	12/13/10 18:10	1

Surrogate	Blank % Recovery	Blank Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	75		35 - 125	12/12/10 11:14	12/13/10 18:10	1
2-Fluorobiphenyl	75		35 - 120	12/12/10 11:14	12/13/10 18:10	1
2-Fluorophenol	70		25 - 120	12/12/10 11:14	12/13/10 18:10	1
Nitrobenzene-d5	63		30 - 120	12/12/10 11:14	12/13/10 18:10	1
Phenol-d6	69		35 - 120	12/12/10 11:14	12/13/10 18:10	1
Terphenyl-d14	98		40 - 135	12/12/10 11:14	12/13/10 18:10	1

**Lab Sample ID: 10L1385-BS1**  
**Matrix: Soil**  
**Analysis Batch: 10L1385**

**Client Sample ID: 10L1385-BS1**  
**Prep Type: total**  
**Prep Batch: 10L1385\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	3330	2820	MNR	ug/kg		84	50 - 120
Acenaphthylene	3330	2670	MNR	ug/kg		80	50 - 120
Aniline	3330	2370	MNR	ug/kg		71	25 - 120
Anthracene	3330	2790	MNR	ug/kg		84	55 - 120
Benzidine	3330	1120	MNR	ug/kg		34	20 - 120
Benzo(a)anthracene	3330	2850	MNR	ug/kg		86	55 - 120
Benzo(a)pyrene	3330	2930	MNR	ug/kg		88	50 - 125
Benzo(b)fluoranthene	3330	2730	MNR	ug/kg		82	45 - 125
Benzo(g,h,i)perylene	3330	2920	MNR	ug/kg		88	35 - 130
Benzo(k)fluoranthene	3330	2960	MNR	ug/kg		89	45 - 125
Benzoic acid	3330	2110	MNR	ug/kg		63	20 - 120
Benzyl alcohol	3330	2420	MNR	ug/kg		73	35 - 120
4-Bromophenyl phenyl ether	3330	2940	MNR	ug/kg		88	45 - 120
Butyl benzyl phthalate	3330	3110	MNR	ug/kg		93	50 - 125
4-Chloro-3-methylphenol	3330	2840	MNR	ug/kg		85	50 - 125
4-Chloroaniline	3330	2290	MNR	ug/kg		69	20 - 120
Bis(2-chloroethoxy)methane	3330	2600	MNR	ug/kg		78	45 - 120
Bis(2-chloroethyl)ether	3330	2440	MNR	ug/kg		73	35 - 120
Bis(2-chloroisopropyl)ether	3330	2480	MNR	ug/kg		75	40 - 120
2-Chloronaphthalene	3330	2490	MNR	ug/kg		75	45 - 120

# Quality Control Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

## Method: EPA 8270C - SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3546/8270C) (Continued)

**Lab Sample ID: 10L1385-BS1**

**Matrix: Soil**

**Analysis Batch: 10L1385**

**Client Sample ID: 10L1385-BS1**

**Prep Type: total**

**Prep Batch: 10L1385\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
2-Chlorophenol	3330	2680	MNR	ug/kg		80	40 - 120
4-Chlorophenyl phenyl ether	3330	2640	MNR	ug/kg		79	55 - 120
Chrysene	3330	2980	MNR	ug/kg		89	55 - 120
Dibenz(a,h)anthracene	3330	2820	MNR	ug/kg		84	40 - 135
Dibenzofuran	3330	2510	MNR	ug/kg		75	55 - 120
Di-n-butyl phthalate	3330	2840	MNR	ug/kg		85	50 - 125
1,2-Dichlorobenzene	3330	2270	MNR	ug/kg		68	40 - 120
1,3-Dichlorobenzene	3330	2220	MNR	ug/kg		67	35 - 120
1,4-Dichlorobenzene	3330	2310	MNR	ug/kg		69	35 - 120
3,3'-Dichlorobenzidine	3330	2590	MNR	ug/kg		78	20 - 130
2,4-Dichlorophenol	3330	2780	MNR	ug/kg		83	45 - 120
Diethyl phthalate	3330	2680	MNR	ug/kg		80	50 - 125
2,4-Dimethylphenol	3330	2550	MNR	ug/kg		77	40 - 120
Dimethyl phthalate	3330	2770	MNR	ug/kg		83	50 - 125
4,6-Dinitro-2-methylphenol	3330	2700	MNR	ug/kg		81	40 - 120
2,4-Dinitrophenol	3330	2570	MNR	ug/kg		77	25 - 120
2,4-Dinitrotoluene	3330	2820	MNR	ug/kg		85	55 - 125
2,6-Dinitrotoluene	3330	2850	MNR	ug/kg		85	55 - 125
Di-n-octyl phthalate	3330	3040	MNR	ug/kg		91	50 - 135
1,2-Diphenylhydrazine/Azobenzene	3330	2640	MNR	ug/kg		79	50 - 125
Fluoranthene	3330	2760	MNR	ug/kg		83	55 - 120
Fluorene	3330	2690	MNR	ug/kg		81	55 - 120
Hexachlorobenzene	3330	2860	MNR	ug/kg		86	50 - 120
Hexachlorobutadiene	3330	2240	MNR	ug/kg		67	40 - 120
Hexachlorocyclopentadiene	3330	2390	MNR	ug/kg		72	30 - 125
Hexachloroethane	3330	2230	MNR	ug/kg		67	40 - 120
Indeno(1,2,3-cd)pyrene	3330	2740	MNR	ug/kg		82	30 - 135
Isophorone	3330	2660	MNR	ug/kg		80	40 - 120
2-Methylnaphthalene	3330	2520	MNR	ug/kg		76	45 - 120
2-Methylphenol	3330	2770	MNR	ug/kg		83	40 - 120
Naphthalene	3330	2390	MNR	ug/kg		72	45 - 120
2-Nitroaniline	3330	2690	MNR	ug/kg		81	50 - 125
3-Nitroaniline	3330	2580	MNR	ug/kg		77	35 - 120
4-Nitroaniline	3330	2580	MNR	ug/kg		78	45 - 125
Nitrobenzene	3330	2480	MNR	ug/kg		74	45 - 120
2-Nitrophenol	3330	2580	MNR	ug/kg		77	45 - 120
4-Nitrophenol	3330	2790	MNR	ug/kg		84	40 - 125
N-Nitroso-di-n-propylamine	3330	2350	MNR	ug/kg		71	40 - 120
N-Nitrosodimethylamine	3330	2180	MNR	ug/kg		65	25 - 120
N-Nitrosodiphenylamine	3330	3000	MNR	ug/kg		90	50 - 120
Pentachlorophenol	3330	2830	MNR	ug/kg		85	40 - 120
Phenanthrene	3330	2780	MNR	ug/kg		83	50 - 120
Phenol	3330	2870	MNR	ug/kg		86	40 - 120
Pyrene	3330	3070	MNR	ug/kg		92	45 - 125
Pyridine	3330	1350	MNR	ug/kg		41	25 - 130
1,2,4-Trichlorobenzene	3330	2350	MNR	ug/kg		70	40 - 120
2,4,5-Trichlorophenol	3330	2860	MNR	ug/kg		86	50 - 120
2,4,6-Trichlorophenol	3330	2770	MNR	ug/kg		83	50 - 120

# Quality Control Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

## Method: EPA 8270C - SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3546/8270C) (Continued)

**Lab Sample ID: 10L1385-BS1**  
**Matrix: Soil**  
**Analysis Batch: 10L1385**

**Client Sample ID: 10L1385-BS1**  
**Prep Type: total**  
**Prep Batch: 10L1385\_P**

Surrogate	LCS		Limits
	% Recovery	Qualifier	
2,4,6-Tribromophenol	88	MNR	35 - 125
2-Fluorobiphenyl	71	MNR	35 - 120
2-Fluorophenol	81	MNR	25 - 120
Nitrobenzene-d5	71	MNR	30 - 120
Phenol-d6	84	MNR	35 - 120
Terphenyl-d14	86	MNR	40 - 135

## Method: EPA 8081 - Organochlorine Pesticides by EPA Method 8081

**Lab Sample ID: 10L0058-BLK1**  
**Matrix: Solid/Soil**  
**Analysis Batch: 10L0058**

**Client Sample ID: 10L0058-BLK1**  
**Prep Type: total**  
**Prep Batch: 10L0058\_P**

Analyte	Blank	Blank	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
4,4'-DDD	ND		0.00400	0.00110	mg/kg		12/09/10 09:26	12/10/10 19:23	1
4,4'-DDE	ND		0.00400	0.00100	mg/kg		12/09/10 09:26	12/10/10 19:23	1
4,4'-DDT	ND		0.00400	0.000700	mg/kg		12/09/10 09:26	12/10/10 19:23	1
Aldrin	ND		0.00400	0.00150	mg/kg		12/09/10 09:26	12/10/10 19:23	1
alpha-BHC	ND		0.00400	0.00180	mg/kg		12/09/10 09:26	12/10/10 19:23	1
beta-BHC	ND		0.00400	0.00170	mg/kg		12/09/10 09:26	12/10/10 19:23	1
Chlordane	ND		0.0330	0.0140	mg/kg		12/09/10 09:26	12/10/10 19:23	1
delta-BHC	ND		0.00400	0.00160	mg/kg		12/09/10 09:26	12/10/10 19:23	1
Dieldrin	ND		0.00400	0.00140	mg/kg		12/09/10 09:26	12/10/10 19:23	1
Endosulfan I	ND		0.00400	0.00150	mg/kg		12/09/10 09:26	12/10/10 19:23	1
Endosulfan II	ND		0.00400	0.000800	mg/kg		12/09/10 09:26	12/10/10 19:23	1
Endosulfan sulfate	ND		0.00400	0.00100	mg/kg		12/09/10 09:26	12/10/10 19:23	1
Endrin	ND		0.00400	0.00100	mg/kg		12/09/10 09:26	12/10/10 19:23	1
Endrin aldehyde	ND		0.00400	0.000700	mg/kg		12/09/10 09:26	12/10/10 19:23	1
Endrin ketone	ND		0.00400	0.00170	mg/kg		12/09/10 09:26	12/10/10 19:23	1
gamma-BHC (Lindane)	ND		0.00400	0.00120	mg/kg		12/09/10 09:26	12/10/10 19:23	1
Heptachlor	ND		0.00400	0.00140	mg/kg		12/09/10 09:26	12/10/10 19:23	1
Heptachlor epoxide	ND		0.00400	0.00110	mg/kg		12/09/10 09:26	12/10/10 19:23	1
Methoxychlor	0.00323	R1, A-01, B, J	0.0200	0.00140	mg/kg		12/09/10 09:26	12/10/10 19:23	1
Toxaphene	ND		0.0500	0.0500	mg/kg		12/09/10 09:26	12/10/10 19:23	1
alpha-Chlordane	ND		0.00400	0.00180	mg/kg		12/09/10 09:26	12/10/10 19:23	1
gamma-Chlordane	ND		0.00400	0.00100	mg/kg		12/09/10 09:26	12/10/10 19:23	1

Surrogate	Blank	Blank	Limits	Prepared	Analyzed	Dil Fac
	% Recovery	Qualifier				
Decachlorobiphenyl	93		45 - 120	12/09/10 09:26	12/10/10 19:23	1
Tetrachloro-meta-xylene	77		50 - 120	12/09/10 09:26	12/10/10 19:23	1

**Lab Sample ID: 10L0058-BS1**  
**Matrix: Solid/Soil**  
**Analysis Batch: 10L0058**

**Client Sample ID: 10L0058-BS1**  
**Prep Type: total**  
**Prep Batch: 10L0058\_P**

Analyte	Spike Added	LCS		Unit	D	% Rec	Limits
		Result	Qualifier				
4,4'-DDD	0.0667	0.0652		mg/kg		98	35 - 140
4,4'-DDE	0.0667	0.0668		mg/kg		100	55 - 125

# Quality Control Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

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

**Lab Sample ID: 10L0058-BS1**  
**Matrix: Solid/Soil**  
**Analysis Batch: 10L0058**

**Client Sample ID: 10L0058-BS1**  
**Prep Type: total**  
**Prep Batch: 10L0058\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
4,4'-DDT	0.0667	0.0670		mg/kg		100	55 - 135
Aldrin	0.0667	0.0615		mg/kg		92	55 - 120
alpha-BHC	0.0667	0.0552		mg/kg		83	55 - 125
beta-BHC	0.0667	0.0620		mg/kg		93	55 - 125
delta-BHC	0.0667	0.0599		mg/kg		90	50 - 135
Dieldrin	0.0667	0.0648		mg/kg		97	60 - 125
Endosulfan I	0.0667	0.0684		mg/kg		103	45 - 125
Endosulfan II	0.0667	0.0661		mg/kg		99	55 - 120
Endosulfan sulfate	0.0667	0.0737		mg/kg		111	50 - 120
Endrin	0.0667	0.0696		mg/kg		104	60 - 125
Endrin aldehyde	0.0667	0.0575		mg/kg		86	40 - 130
Endrin ketone	0.0667	0.0678		mg/kg		102	55 - 125
gamma-BHC (Lindane)	0.0667	0.0532		mg/kg		80	55 - 120
Heptachlor	0.0667	0.0606		mg/kg		91	65 - 115
Heptachlor epoxide	0.0667	0.0661		mg/kg		99	60 - 120
Methoxychlor	0.0667	0.0760	B	mg/kg		114	55 - 135
alpha-Chlordane	0.0667	0.0631		mg/kg		95	45 - 130
gamma-Chlordane	0.0667	0.0647		mg/kg		97	55 - 120

Surrogate	LCS % Recovery	LCS Qualifier	Limits
Decachlorobiphenyl	112		45 - 120
Tetrachloro-meta-xylene	74		50 - 120

**Lab Sample ID: 10L0058-MS1**  
**Matrix: Solid/Soil**  
**Analysis Batch: 10L0058**

**Client Sample ID: FHMA-04**  
**Prep Type: total**  
**Prep Batch: 10L0058\_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
4,4'-DDD	ND		0.0580	0.0499		mg/kg		86	35 - 140
4,4'-DDE	ND		0.0580	0.0445		mg/kg		77	55 - 125
4,4'-DDT	ND		0.0580	0.0462		mg/kg		80	55 - 135
Aldrin	ND		0.0580	0.0420		mg/kg		72	55 - 120
alpha-BHC	ND		0.0580	0.0404		mg/kg		70	55 - 125
beta-BHC	ND		0.0580	0.0393		mg/kg		68	55 - 125
delta-BHC	ND		0.0580	0.0453		mg/kg		78	50 - 135
Dieldrin	ND		0.0580	0.0430		mg/kg		74	60 - 125
Endosulfan I	ND		0.0580	0.0445		mg/kg		77	45 - 125
Endosulfan II	ND		0.0580	0.0463		mg/kg		80	55 - 120
Endosulfan sulfate	ND		0.0580	0.0610		mg/kg		105	50 - 120
Endrin	ND		0.0580	0.0673		mg/kg		116	60 - 125
Endrin aldehyde	ND		0.0580	0.0372		mg/kg		64	40 - 130
Endrin ketone	ND		0.0580	0.0587		mg/kg		101	55 - 125
gamma-BHC (Lindane)	ND		0.0580	0.0388		mg/kg		67	55 - 120
Heptachlor	ND		0.0580	0.0420		mg/kg		72	65 - 115
Heptachlor epoxide	ND		0.0580	0.0435		mg/kg		75	60 - 120
Methoxychlor	ND	B	0.0580	0.0654	B	mg/kg		113	55 - 135
alpha-Chlordane	ND		0.0580	0.0407		mg/kg		70	45 - 130
gamma-Chlordane	ND		0.0580	0.0401		mg/kg		69	55 - 120

# Quality Control Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

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

**Lab Sample ID: 10L0058-MS1**  
**Matrix: Solid/Soil**  
**Analysis Batch: 10L0058**

**Client Sample ID: FHMA-04**  
**Prep Type: total**  
**Prep Batch: 10L0058\_P**

Surrogate	Matrix Spike	Matrix Spike	Limits
	% Recovery	Qualifier	
Decachlorobiphenyl	122	Z5	45 - 120
Tetrachloro-meta-xylene	68		50 - 120

**Lab Sample ID: 10L0058-MSD1**  
**Matrix: Solid/Soil**  
**Analysis Batch: 10L0058**

**Client Sample ID: FHMA-04**  
**Prep Type: total**  
**Prep Batch: 10L0058\_P**

Analyte	Sample	Sample	Spike	Matrix Spike Dup	Matrix Spike Dup	D	% Rec	% Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier					
4,4'-DDD	ND		0.0619	0.0585			94	35 - 140	16	30
4,4'-DDE	ND		0.0619	0.0505			82	55 - 125	13	30
4,4'-DDT	ND		0.0619	0.0509			82	55 - 135	10	30
Aldrin	ND		0.0619	0.0433			70	55 - 120	3	30
alpha-BHC	ND		0.0619	0.0380			61	55 - 125	6	30
beta-BHC	ND		0.0619	0.0421			68	55 - 125	7	30
delta-BHC	ND		0.0619	0.0489			79	50 - 135	7	30
Dieldrin	ND		0.0619	0.0485			78	60 - 125	12	30
Endosulfan I	ND		0.0619	0.0495			80	45 - 125	11	30
Endosulfan II	ND		0.0619	0.0528			85	55 - 120	13	30
Endosulfan sulfate	ND		0.0619	0.0704			114	50 - 120	14	30
Endrin	ND		0.0619	0.0764			123	60 - 125	13	30
Endrin aldehyde	ND		0.0619	0.0427			69	40 - 130	14	30
Endrin ketone	ND		0.0619	0.0698			113	55 - 125	17	30
gamma-BHC (Lindane)	ND		0.0619	0.0384			62	55 - 120	0.9	30
Heptachlor	ND		0.0619	0.0435			70	65 - 115	4	30
Heptachlor epoxide	ND		0.0619	0.0472			76	60 - 120	8	30
Methoxychlor	ND	B	0.0619	0.0710	B		115	55 - 135	8	30
alpha-Chlordane	ND		0.0619	0.0458			74	45 - 130	12	30
gamma-Chlordane	ND		0.0619	0.0443			72	55 - 120	10	30

Surrogate	Matrix Spike Dup	Matrix Spike Dup	Limits
	% Recovery	Qualifier	
Decachlorobiphenyl	130	Z5, R1	45 - 120
Tetrachloro-meta-xylene	60		50 - 120

**Lab Sample ID: 10L0064-BLK1**  
**Matrix: Water - NonPotable**  
**Analysis Batch: 10L0064**

**Client Sample ID: 10L0064-BLK1**  
**Prep Type: total**  
**Prep Batch: 10L0064\_P**

Analyte	Blank	Blank	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
4,4'-DDD	ND		0.100	0.0170	ug/L		12/09/10 13:47	12/10/10 17:46	1
4,4'-DDE	ND		0.100	0.0260	ug/L		12/09/10 13:47	12/10/10 17:46	1
4,4'-DDT	ND		0.100	0.0100	ug/L		12/09/10 13:47	12/10/10 17:46	1
Aldrin	ND		0.100	0.0110	ug/L		12/09/10 13:47	12/10/10 17:46	1
alpha-BHC	ND		0.0500	0.0150	ug/L		12/09/10 13:47	12/10/10 17:46	1
beta-BHC	ND		0.0500	0.0200	ug/L		12/09/10 13:47	12/10/10 17:46	1
Chlordane	ND		1.00	0.458	ug/L		12/09/10 13:47	12/10/10 17:46	1
delta-BHC	ND		0.100	0.0230	ug/L		12/09/10 13:47	12/10/10 17:46	1
Dieldrin	ND		0.100	0.0360	ug/L		12/09/10 13:47	12/10/10 17:46	1
Endosulfan I	ND		0.0500	0.0100	ug/L		12/09/10 13:47	12/10/10 17:46	1
Endosulfan II	ND		0.100	0.0180	ug/L		12/09/10 13:47	12/10/10 17:46	1

TestAmerica Honolulu

# Quality Control Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

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

**Lab Sample ID: 10L0064-BLK1**  
**Matrix: Water - NonPotable**  
**Analysis Batch: 10L0064**

**Client Sample ID: 10L0064-BLK1**  
**Prep Type: total**  
**Prep Batch: 10L0064\_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan sulfate	ND		0.100	0.0180	ug/L		12/09/10 13:47	12/10/10 17:46	1
Endrin	ND		0.100	0.0110	ug/L		12/09/10 13:47	12/10/10 17:46	1
Endrin aldehyde	ND		0.200	0.0660	ug/L		12/09/10 13:47	12/10/10 17:46	1
Endrin ketone	ND		0.100	0.0330	ug/L		12/09/10 13:47	12/10/10 17:46	1
gamma-BHC (Lindane)	0.0930	A-01, R1, B	0.0500	0.00600	ug/L		12/09/10 13:47	12/10/10 17:46	1
Heptachlor	ND		0.100	0.0110	ug/L		12/09/10 13:47	12/10/10 17:46	1
Heptachlor epoxide	ND		0.0800	0.0400	ug/L		12/09/10 13:47	12/10/10 17:46	1
Methoxychlor	0.0880	R1, A-01a, B, J	0.500	0.0100	ug/L		12/09/10 13:47	12/10/10 17:46	1
Toxaphene	ND		5.00	5.00	ug/L		12/09/10 13:47	12/10/10 17:46	1
alpha-Chlordane	ND		0.250	0.103	ug/L		12/09/10 13:47	12/10/10 17:46	1
gamma-Chlordane	ND		0.400	0.0990	ug/L		12/09/10 13:47	12/10/10 17:46	1
<b>Surrogate</b>	<b>% Recovery</b>	<b>Blank Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Decachlorobiphenyl	72		35 - 135				12/09/10 13:47	12/10/10 17:46	1
Tetrachloro-meta-xylene	60		35 - 135				12/09/10 13:47	12/10/10 17:46	1

**Lab Sample ID: 10L0064-BS1**  
**Matrix: Water - NonPotable**  
**Analysis Batch: 10L0064**

**Client Sample ID: 10L0064-BS1**  
**Prep Type: total**  
**Prep Batch: 10L0064\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
4,4'-DDD	2.00	1.94		ug/L		97	50 - 140
4,4'-DDE	2.00	1.97		ug/L		98	50 - 140
4,4'-DDT	2.00	1.92		ug/L		96	45 - 140
Aldrin	2.00	1.73		ug/L		86	40 - 120
alpha-BHC	2.00	1.70		ug/L		85	60 - 120
beta-BHC	2.00	1.90		ug/L		95	65 - 125
delta-BHC	2.00	1.75		ug/L		87	45 - 135
Dieldrin	2.00	1.89		ug/L		94	40 - 140
Endosulfan I	2.00	1.97		ug/L		98	50 - 130
Endosulfan II	2.00	1.96		ug/L		98	55 - 130
Endosulfan sulfate	2.00	2.13		ug/L		107	55 - 135
Endrin	2.00	2.10		ug/L		105	55 - 135
Endrin aldehyde	2.00	1.87		ug/L		93	55 - 135
Endrin ketone	2.00	1.98		ug/L		99	50 - 130
gamma-BHC (Lindane)	2.00	1.62	B	ug/L		81	30 - 145
Heptachlor	2.00	1.74		ug/L		87	50 - 130
Heptachlor epoxide	2.00	1.95		ug/L		97	60 - 130
Methoxychlor	2.00	2.16	B	ug/L		108	55 - 150
alpha-Chlordane	2.00	1.88		ug/L		94	60 - 120
gamma-Chlordane	2.00	1.91		ug/L		95	65 - 120
<b>Surrogate</b>	<b>% Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
Decachlorobiphenyl	81		35 - 135				
Tetrachloro-meta-xylene	62		35 - 135				

# Quality Control Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

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

**Lab Sample ID: 10L0064-BSD1**  
**Matrix: Water - NonPotable**  
**Analysis Batch: 10L0064**

**Client Sample ID: 10L0064-BSD1**  
**Prep Type: total**  
**Prep Batch: 10L0064\_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec.		RPD	Limit
							Limits	RPD		
4,4'-DDD	2.00	1.96		ug/L		98	50 - 140	1	30	
4,4'-DDE	2.00	1.99		ug/L		100	50 - 140	1	30	
4,4'-DDT	2.00	1.93		ug/L		97	45 - 140	0.7	30	
Aldrin	2.00	1.77		ug/L		89	40 - 120	3	30	
alpha-BHC	2.00	1.73		ug/L		86	60 - 120	1	30	
beta-BHC	2.00	1.92		ug/L		96	65 - 125	1	30	
delta-BHC	2.00	1.79		ug/L		89	45 - 135	2	30	
Dieldrin	2.00	1.91		ug/L		96	40 - 140	1	30	
Endosulfan I	2.00	2.02		ug/L		101	50 - 130	2	30	
Endosulfan II	2.00	1.99		ug/L		100	55 - 130	1	30	
Endosulfan sulfate	2.00	2.21		ug/L		110	55 - 135	4	30	
Endrin	2.00	2.05		ug/L		102	55 - 135	3	30	
Endrin aldehyde	2.00	1.92		ug/L		96	55 - 135	3	30	
Endrin ketone	2.00	2.08		ug/L		104	50 - 130	5	30	
gamma-BHC (Lindane)	2.00	1.64	B	ug/L		82	30 - 145	1	30	
Heptachlor	2.00	1.76		ug/L		88	50 - 130	1	30	
Heptachlor epoxide	2.00	1.96		ug/L		98	60 - 130	0.8	30	
Methoxychlor	2.00	2.16	B	ug/L		108	55 - 150	0.3	30	
alpha-Chlordane	2.00	1.87		ug/L		93	60 - 120	0.9	30	
gamma-Chlordane	2.00	1.92		ug/L		96	65 - 120	0.5	30	

Surrogate	LCS Dup % Recovery	LCS Dup Qualifier	Limits
Decachlorobiphenyl	74		35 - 135
Tetrachloro-meta-xylene	62		35 - 135

**Lab Sample ID: 10L0128-BLK1**  
**Matrix: Solid/Soil**  
**Analysis Batch: 10L0128**

**Client Sample ID: 10L0128-BLK1**  
**Prep Type: total**  
**Prep Batch: 10L0128\_P**

Analyte	Blank		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
4,4'-DDD	ND	C-06	0.00400	0.00110	mg/kg		12/17/10 13:00	01/05/11 19:25	1
4,4'-DDE	ND	C-06	0.00400	0.00100	mg/kg		12/17/10 13:00	01/05/11 19:25	1
4,4'-DDT	ND	C-06	0.00400	0.000700	mg/kg		12/17/10 13:00	01/05/11 19:25	1
Aldrin	ND	C-06	0.00400	0.00150	mg/kg		12/17/10 13:00	01/05/11 19:25	1
alpha-BHC	ND	C-06	0.00400	0.00180	mg/kg		12/17/10 13:00	01/05/11 19:25	1
beta-BHC	ND	C-06	0.00400	0.00170	mg/kg		12/17/10 13:00	01/05/11 19:25	1
Chlordane	ND	C-06	0.0330	0.0140	mg/kg		12/17/10 13:00	01/05/11 19:25	1
delta-BHC	ND	C-06	0.00400	0.00160	mg/kg		12/17/10 13:00	01/05/11 19:25	1
Dieldrin	ND	C-06	0.00400	0.00140	mg/kg		12/17/10 13:00	01/05/11 19:25	1
Endosulfan I	ND	C-06	0.00400	0.00150	mg/kg		12/17/10 13:00	01/05/11 19:25	1
Endosulfan II	ND	C-06	0.00400	0.000800	mg/kg		12/17/10 13:00	01/05/11 19:25	1
Endosulfan sulfate	ND	C-06	0.00400	0.00100	mg/kg		12/17/10 13:00	01/05/11 19:25	1
Endrin	ND	C-06	0.00400	0.00100	mg/kg		12/17/10 13:00	01/05/11 19:25	1
Endrin aldehyde	ND	C-06	0.00400	0.000700	mg/kg		12/17/10 13:00	01/05/11 19:25	1
Endrin ketone	ND	C-06	0.00400	0.00170	mg/kg		12/17/10 13:00	01/05/11 19:25	1
gamma-BHC (Lindane)	ND	C-06	0.00400	0.00120	mg/kg		12/17/10 13:00	01/05/11 19:25	1
Heptachlor	ND	C-06	0.00400	0.00140	mg/kg		12/17/10 13:00	01/05/11 19:25	1
Heptachlor epoxide	ND	C-06	0.00400	0.00110	mg/kg		12/17/10 13:00	01/05/11 19:25	1
Methoxychlor	ND	C-06	0.0200	0.00140	mg/kg		12/17/10 13:00	01/05/11 19:25	1

# Quality Control Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

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

**Lab Sample ID: 10L0128-BLK1**  
**Matrix: Solid/Soil**  
**Analysis Batch: 10L0128**

**Client Sample ID: 10L0128-BLK1**  
**Prep Type: total**  
**Prep Batch: 10L0128\_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	ND	C-06	0.0500	0.0500	mg/kg		12/17/10 13:00	01/05/11 19:25	1
alpha-Chlordane	ND	C-06	0.00400	0.00180	mg/kg		12/17/10 13:00	01/05/11 19:25	1
gamma-Chlordane	0.00117	C-06 J	0.00400	0.00100	mg/kg		12/17/10 13:00	01/05/11 19:25	1
<b>Blank</b>									
Surrogate	% Recovery	Blank Qualifier	Limits				Prepared	Analyzed	Dil Fac
Decachlorobiphenyl	98	C-06	45 - 120				12/17/10 13:00	01/05/11 19:25	1
Tetrachloro-meta-xylene	62	C-06	50 - 120				12/17/10 13:00	01/05/11 19:25	1

**Lab Sample ID: 10L0128-BS1**  
**Matrix: Solid/Soil**  
**Analysis Batch: 10L0128**

**Client Sample ID: 10L0128-BS1**  
**Prep Type: total**  
**Prep Batch: 10L0128\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
4,4'-DDD	0.0667	0.0582		mg/kg		87	35 - 140
4,4'-DDE	0.0667	0.0616		mg/kg		92	55 - 125
4,4'-DDT	0.0667	0.0649		mg/kg		97	55 - 135
Aldrin	0.0667	0.0600		mg/kg		90	55 - 120
alpha-BHC	0.0667	0.0572		mg/kg		86	55 - 125
beta-BHC	0.0667	0.0563		mg/kg		84	55 - 125
delta-BHC	0.0667	0.0622		mg/kg		93	50 - 135
Dieldrin	0.0667	0.0609		mg/kg		91	60 - 125
Endosulfan I	0.0667	0.0616		mg/kg		92	45 - 125
Endosulfan II	0.0667	0.0570		mg/kg		86	55 - 120
Endosulfan sulfate	0.0667	0.0645		mg/kg		97	50 - 120
Endrin	0.0667	0.0572		mg/kg		86	60 - 125
Endrin aldehyde	0.0667	0.0550		mg/kg		83	40 - 130
Endrin ketone	0.0667	0.0651		mg/kg		98	55 - 125
gamma-BHC (Lindane)	0.0667	0.0574		mg/kg		86	55 - 120
Heptachlor	0.0667	0.0605		mg/kg		91	65 - 115
Heptachlor epoxide	0.0667	0.0558		mg/kg		84	60 - 120
Methoxychlor	0.0667	0.0651		mg/kg		98	55 - 135
alpha-Chlordane	0.0667	0.0579		mg/kg		87	45 - 130
gamma-Chlordane	0.0667	0.0584		mg/kg		88	55 - 120
<b>LCS</b>							
Surrogate	% Recovery	LCS Qualifier	Limits				
Decachlorobiphenyl	87		45 - 120				
Tetrachloro-meta-xylene	81		50 - 120				

**Lab Sample ID: 10L0128-BS2**  
**Matrix: Solid/Soil**  
**Analysis Batch: 10L0128**

**Client Sample ID: 10L0128-BS2**  
**Prep Type: total**  
**Prep Batch: 10L0128\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
4,4'-DDD	0.0667	0.0560	C-06	mg/kg		84	35 - 140
4,4'-DDE	0.0667	0.0498	C-06	mg/kg		75	55 - 125
4,4'-DDT	0.0667	0.0290	C-06	mg/kg		44	55 - 135
Aldrin	0.0667	0.0163	A-01b C-06	mg/kg		24	55 - 120
alpha-BHC	0.0667	0.0441	A-01b C-06	mg/kg		66	55 - 125

TestAmerica Honolulu

# Quality Control Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

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

**Lab Sample ID: 10L0128-BS2**

**Matrix: Solid/Soil**

**Analysis Batch: 10L0128**

**Client Sample ID: 10L0128-BS2**

**Prep Type: total**

**Prep Batch: 10L0128\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec.	
							Limits	
beta-BHC	0.0667	0.0417	C-06	mg/kg		63	55 - 125	
delta-BHC	0.0667	0.0509	C-06	mg/kg		76	50 - 135	
Dieldrin	0.0667	0.0504	C-06	mg/kg		76	60 - 125	
Endosulfan I	0.0667	0.0478	C-06	mg/kg		72	45 - 125	
Endosulfan II	0.0667	0.0502	C-06	mg/kg		75	55 - 120	
Endosulfan sulfate	0.0667	0.0612	C-06	mg/kg		92	50 - 120	
Endrin	0.0667	0.0487	C-06	mg/kg		73	60 - 125	
Endrin aldehyde	0.0667	0.0325	C-06	mg/kg		49	40 - 130	
Endrin ketone	0.0667	0.0518	C-06	mg/kg		78	55 - 125	
gamma-BHC (Lindane)	0.0667	0.0426	C-06	mg/kg		64	55 - 120	
Heptachlor	0.0667	0.0435	C-06	mg/kg		65	65 - 115	
Heptachlor epoxide	0.0667	0.0442	C-06	mg/kg		66	60 - 120	
Methoxychlor	0.0667	0.0362	C-06	mg/kg		54	55 - 135	
alpha-Chlordane	0.0667	0.0435	C-06	mg/kg		65	45 - 130	
gamma-Chlordane	0.0667	0.0435	C-06	mg/kg		65	55 - 120	

Surrogate	LCS LCS		Limits
	% Recovery	Qualifier	
Decachlorobiphenyl	74	C-06	45 - 120
Tetrachloro-meta-xylene	64	C-06	50 - 120

**Lab Sample ID: 10L0128-MS1**

**Matrix: Solid/Soil**

**Analysis Batch: 10L0128**

**Client Sample ID: MDA-10**

**Prep Type: total**

**Prep Batch: 10L0128\_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike		Unit	D	% Rec	% Rec.	
				Result	Qualifier				Limits	
4,4'-DDD	0.00132	H1, C-06 R10, J	0.0660	0.0612	C-06	mg/kg		91	35 - 140	
4,4'-DDE	0.00188	H1, C-06 J	0.0660	0.0514	C-06	mg/kg		75	55 - 125	
4,4'-DDT	ND	H1, C-06 A-01b	0.0660	0.0172	C-06 A-01b	mg/kg		26	55 - 135	
Aldrin	ND	H1, C-06 A-01b	0.0660	0.0287	C-06 A-01b	mg/kg		44	55 - 120	
alpha-BHC	ND	H1, C-06	0.0660	0.0400	C-06	mg/kg		61	55 - 125	
beta-BHC	0.00298	H1, C-06 R10, J	0.0660	0.0343	C-06 M1	mg/kg		47	55 - 125	
delta-BHC	ND	H1, C-06	0.0660	0.0439	C-06	mg/kg		66	50 - 135	
Dieldrin	ND	H1, C-06	0.0660	0.0501	C-06	mg/kg		76	60 - 125	
Endosulfan I	ND	H1, C-06	0.0660	0.0459	C-06	mg/kg		70	45 - 125	
Endosulfan II	ND	H1, C-06	0.0660	0.0572	C-06	mg/kg		87	55 - 120	
Endosulfan sulfate	ND	H1, C-06	0.0660	0.0704	C-06	mg/kg		107	50 - 120	
Endrin	ND	H1, C-06	0.0660	0.0465	C-06	mg/kg		71	60 - 125	
Endrin aldehyde	0.0126	H1, C-06 R1	0.0660	0.0358	C-06 M1	mg/kg		35	40 - 130	
Endrin ketone	ND	H1, C-06	0.0660	0.0506	C-06	mg/kg		77	55 - 125	
gamma-BHC (Lindane)	ND	H1, C-06	0.0660	0.0344	C-06 M1	mg/kg		52	55 - 120	
Heptachlor	ND	H1, C-06	0.0660	0.0311	C-06 M1	mg/kg		47	65 - 115	
Heptachlor epoxide	0.0295	H1, C-06 R1	0.0660	0.0595	C-06 M1	mg/kg		45	60 - 120	
Methoxychlor	ND	H1, C-06 A-01b	0.0660	0.0284	C-06 A-01b, R1	mg/kg		43	55 - 135	

# Quality Control Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

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

**Lab Sample ID: 10L0128-MS1**  
**Matrix: Solid/Soil**  
**Analysis Batch: 10L0128**

**Client Sample ID: MDA-10**  
**Prep Type: total**  
**Prep Batch: 10L0128\_P**

Analyte	Sample	Sample	Spike	Matrix Spike	Matrix Spike	Unit	D	% Rec	% Rec.		
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit
alpha-Chlordane	0.00311	H1, C-06 R10, J	0.0660	0.0440	C-06	mg/kg		62	45 - 130		
gamma-Chlordane	0.00185	H1, C-06 R10, J	0.0660	0.0409	C-06	mg/kg		59	55 - 120		
<b>Surrogate</b>	<b>% Recovery</b>	<b>Qualifier</b>	<b>Limits</b>								
Decachlorobiphenyl	124	C-06 Z1	45 - 120								
Tetrachloro-meta-xylene	55	C-06	50 - 120								

**Lab Sample ID: 10L0128-MSD1**  
**Matrix: Solid/Soil**  
**Analysis Batch: 10L0128**

**Client Sample ID: MDA-10**  
**Prep Type: total**  
**Prep Batch: 10L0128\_P**

Analyte	Sample	Sample	Spike	Matrix Spike Dup	Matrix Spike Dup	Unit	D	% Rec	% Rec.		RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD		
4,4'-DDD	0.00132	H1, C-06 R10, J	0.0641	0.0651	C-06	mg/kg		99	35 - 140		6	30
4,4'-DDE	0.00188	H1, C-06 J	0.0641	0.0515	C-06	mg/kg		77	55 - 125		0.1	30
4,4'-DDT	ND	H1, C-06 A-01b	0.0641	0.0102	C-06 A-01b	mg/kg		16	55 - 135		51	30
Aldrin	ND	H1, C-06 A-01b	0.0641	0.0247	C-06 A-01b, R10	mg/kg		39	55 - 120		15	30
alpha-BHC	ND	H1, C-06	0.0641	0.0438	C-06	mg/kg		68	55 - 125		9	30
beta-BHC	0.00298	H1, C-06 R10, J	0.0641	0.0312	C-06 M1, R10	mg/kg		44	55 - 125		9	30
delta-BHC	ND	H1, C-06	0.0641	0.0443	C-06	mg/kg		69	50 - 135		1	30
Dieldrin	ND	H1, C-06	0.0641	0.0503	C-06	mg/kg		78	60 - 125		0.4	30
Endosulfan I	ND	H1, C-06	0.0641	0.0451	C-06	mg/kg		70	45 - 125		2	30
Endosulfan II	ND	H1, C-06	0.0641	0.0581	C-06	mg/kg		91	55 - 120		2	30
Endosulfan sulfate	ND	H1, C-06	0.0641	0.0733	C-06	mg/kg		114	50 - 120		4	30
Endrin	ND	H1, C-06	0.0641	0.0476	C-06	mg/kg		74	60 - 125		2	30
Endrin aldehyde	0.0126	H1, C-06 R1	0.0641	0.0411	C-06 R1	mg/kg		45	40 - 130		14	30
Endrin ketone	ND	H1, C-06	0.0641	0.0485	C-06	mg/kg		76	55 - 125		4	30
gamma-BHC (Lindane)	ND	H1, C-06	0.0641	0.0339	C-06 M1	mg/kg		53	55 - 120		1	30
Heptachlor	ND	H1, C-06	0.0641	0.0301	C-06 M1	mg/kg		47	65 - 115		3	30
Heptachlor epoxide	0.0295	H1, C-06 R1	0.0641	0.0672	C-06 M1	mg/kg		59	60 - 120		12	30
Methoxychlor	ND	H1, C-06 A-01b	0.0641	0.0218	C-06 A-01b, R1	mg/kg		34	55 - 135		26	30
alpha-Chlordane	0.00311	H1, C-06 R10, J	0.0641	0.0441	C-06	mg/kg		64	45 - 130		0.3	30
gamma-Chlordane	0.00185	H1, C-06 R10, J	0.0641	0.0368	C-06	mg/kg		55	55 - 120		11	30
<b>Surrogate</b>	<b>% Recovery</b>	<b>Qualifier</b>	<b>Limits</b>									
Decachlorobiphenyl	180	C-06 Z1, R1	45 - 120									
Tetrachloro-meta-xylene	58	C-06	50 - 120									

# Quality Control Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

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

**Lab Sample ID: 10L0090-BLK1**  
**Matrix: Solid/Soil**  
**Analysis Batch: 10L0090**

**Client Sample ID: 10L0090-BLK1**  
**Prep Type: total**  
**Prep Batch: 10L0090\_P**

Analyte	Blank	Blank	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	ND		10.0	0.0800	mg/kg		12/14/10 12:01	12/17/10 16:08	1
Barium	ND		20.0	0.0840	mg/kg		12/14/10 12:01	12/17/10 16:08	1
Cadmium	ND		4.00	0.0810	mg/kg		12/14/10 12:01	12/17/10 16:08	1
Chromium	ND		10.0	0.0730	mg/kg		12/14/10 12:01	12/17/10 16:08	1
Lead	ND		20.0	0.0700	mg/kg		12/14/10 12:01	12/17/10 16:08	1
Selenium	0.364	J	20.0	0.0900	mg/kg		12/14/10 12:01	12/17/10 16:08	1
Silver	ND		10.0	0.00700	mg/kg		12/14/10 12:01	12/17/10 16:08	1

**Lab Sample ID: 10L0090-BS1**  
**Matrix: Solid/Soil**  
**Analysis Batch: 10L0090**

**Client Sample ID: 10L0090-BS1**  
**Prep Type: total**  
**Prep Batch: 10L0090\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits	
							Result	Qualifier
Arsenic	100	107		mg/kg		107	80 - 120	
Barium	100	98.4		mg/kg		98	80 - 120	
Cadmium	100	103		mg/kg		103	80 - 120	
Chromium	100	98.3		mg/kg		98	80 - 120	
Lead	100	90.6		mg/kg		91	80 - 120	
Selenium	100	106		mg/kg		106	80 - 120	

**Lab Sample ID: 10L0090-BS1**  
**Matrix: Solid/Soil**  
**Analysis Batch: 10L0090**

**Client Sample ID: 10L0090-BS1**  
**Prep Type: total**  
**Prep Batch: 10L0090\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits	
							Result	Qualifier
Silver	10.0	9.36	J	mg/kg		94	80 - 120	

**Lab Sample ID: 10L0090-MS1**  
**Matrix: Solid/Soil**  
**Analysis Batch: 10L0090**

**Client Sample ID: FHMA-04**  
**Prep Type: total**  
**Prep Batch: 10L0090\_P**

Analyte	Sample	Sample	Spike Added	Matrix Spike	Matrix Spike	Unit	D	% Rec	% Rec. Limits	
	Result	Qualifier		Result	Qualifier					
Arsenic	12.2		98.4	111		mg/kg		100	80 - 120	
Barium	23.9		98.4	121		mg/kg		99	80 - 120	
Cadmium	0.317	J	98.4	97.6		mg/kg		99	80 - 120	
Chromium	78.8		98.4	170		mg/kg		93	80 - 120	
Lead	3.00	J	98.4	112		mg/kg		111	80 - 120	
Selenium	3.25	J	98.4	94.5		mg/kg		93	80 - 120	

**Lab Sample ID: 10L0090-MS1**  
**Matrix: Solid/Soil**  
**Analysis Batch: 10L0090**

**Client Sample ID: FHMA-04**  
**Prep Type: total**  
**Prep Batch: 10L0090\_P**

Analyte	Sample	Sample	Spike Added	Matrix Spike	Matrix Spike	Unit	D	% Rec	% Rec. Limits	
	Result	Qualifier		Result	Qualifier					
Silver	ND		9.84	10.5		mg/kg		107	80 - 120	

# Quality Control Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

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

**Lab Sample ID: 10L0090-MSD1**  
**Matrix: Solid/Soil**  
**Analysis Batch: 10L0090**

**Client Sample ID: FHMA-04**  
**Prep Type: total**  
**Prep Batch: 10L0090\_P**

Analyte	Sample	Sample	Spike	Matrix Spike	Matrix Spike	Unit	D	% Rec	% Rec.		RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD		
Arsenic	12.2		102	117		mg/kg		103	80 - 120	5	20	
Barium	23.9		102	125		mg/kg		99	80 - 120	3	20	
Cadmium	0.317	J	102	100		mg/kg		98	80 - 120	3	20	
Chromium	78.8		102	172		mg/kg		91	80 - 120	1	20	
Lead	3.00	J	102	115		mg/kg		110	80 - 120	3	20	
Selenium	3.25	J	102	100		mg/kg		95	80 - 120	6	20	

**Lab Sample ID: 10L0090-MSD1**  
**Matrix: Solid/Soil**  
**Analysis Batch: 10L0090**

**Client Sample ID: FHMA-04**  
**Prep Type: total**  
**Prep Batch: 10L0090\_P**

Analyte	Sample	Sample	Spike	Matrix Spike	Matrix Spike	Unit	D	% Rec	% Rec.		RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD		
Silver	ND		10.2	10.5		mg/kg		104	80 - 120	0.04	20	

**Lab Sample ID: 10L0170-BLK1**  
**Matrix: Solid/Soil**  
**Analysis Batch: 10L0170**

**Client Sample ID: 10L0170-BLK1**  
**Prep Type: total**  
**Prep Batch: 10L0170\_P**

Analyte	Blank	Blank	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	0.410	J	10.0	0.0800	mg/kg		12/21/10 15:24	12/22/10 12:57	1
Barium	ND		20.0	0.0840	mg/kg		12/21/10 15:24	12/22/10 12:57	1
Cadmium	ND		4.00	0.0810	mg/kg		12/21/10 15:24	12/22/10 12:57	1
Chromium	0.740	J	10.0	0.0730	mg/kg		12/21/10 15:24	12/22/10 12:57	1
Lead	0.202	J	20.0	0.0700	mg/kg		12/21/10 15:24	12/22/10 12:57	1
Selenium	ND		20.0	0.0900	mg/kg		12/21/10 15:24	12/22/10 12:57	1
Silver	0.261	J	10.0	0.00700	mg/kg		12/21/10 15:24	12/22/10 12:57	1

**Lab Sample ID: 10L0170-BS1**  
**Matrix: Solid/Soil**  
**Analysis Batch: 10L0170**

**Client Sample ID: 10L0170-BS1**  
**Prep Type: total**  
**Prep Batch: 10L0170\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec.	
							Limits	RPD
Arsenic	100	106		mg/kg		106	80 - 120	
Barium	100	106		mg/kg		106	80 - 120	
Cadmium	100	105		mg/kg		105	80 - 120	
Chromium	100	100		mg/kg		100	80 - 120	
Lead	100	95.2		mg/kg		95	80 - 120	
Selenium	100	103		mg/kg		103	80 - 120	
Silver	10.0	10.3		mg/kg		103	80 - 120	

**Lab Sample ID: 10L0170-MS1**  
**Matrix: Solid/Soil**  
**Analysis Batch: 10L0170**

**Client Sample ID: MDA-10**  
**Prep Type: total**  
**Prep Batch: 10L0170\_P**

Analyte	Sample	Sample	Spike	Matrix Spike	Matrix Spike	Unit	D	% Rec	% Rec.	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD
Arsenic	22.8		95.6	111		mg/kg		92	80 - 120	
Barium	18.3	J	95.6	116		mg/kg		102	80 - 120	
Cadmium	ND		95.6	88.0		mg/kg		92	80 - 120	
Chromium	146		95.6	245		mg/kg		104	80 - 120	
Lead	25.5		95.6	127		mg/kg		106	80 - 120	

# Quality Control Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

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

**Lab Sample ID: 10L0170-MS1**  
**Matrix: Solid/Soil**  
**Analysis Batch: 10L0170**

**Client Sample ID: MDA-10**  
**Prep Type: total**  
**Prep Batch: 10L0170\_P**

Analyte	Sample	Sample	Spike	Matrix Spike	Matrix Spike	Unit	D	% Rec	% Rec.	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD
Selenium	1.33	J	95.6	82.1		mg/kg		84	80 - 120	
Silver	1.31	J	9.56	11.5		mg/kg		107	80 - 120	

**Lab Sample ID: 10L0170-MSD1**  
**Matrix: Solid/Soil**  
**Analysis Batch: 10L0170**

**Client Sample ID: MDA-10**  
**Prep Type: total**  
**Prep Batch: 10L0170\_P**

Analyte	Sample	Sample	Spike	Matrix Spike Dup	Matrix Spike Dup	Unit	D	% Rec	% Rec.		RPD
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit
Arsenic	22.8		102	118		mg/kg		93	80 - 120	6	20
Barium	18.3	J	102	123		mg/kg		103	80 - 120	6	20
Cadmium	ND		102	93.8		mg/kg		92	80 - 120	6	20
Chromium	146		102	252		mg/kg		104	80 - 120	3	20
Lead	25.5		102	132		mg/kg		104	80 - 120	4	20
Selenium	1.33	J	102	88.7		mg/kg		86	80 - 120	8	20
Silver	1.31	J	10.2	11.9		mg/kg		104	80 - 120	3	20

## Method: EPA 6010B - METALS

**Lab Sample ID: 10L1762-BLK1**  
**Matrix: Water**  
**Analysis Batch: 10L1762**

**Client Sample ID: 10L1762-BLK1**  
**Prep Type: total**  
**Prep Batch: 10L1762\_P**

Analyte	Blank	Blank	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	ND		0.010		mg/l		12/15/10 10:22	12/15/10 18:09	1
Barium	ND		0.010		mg/l		12/15/10 10:22	12/15/10 18:09	1
Cadmium	ND		0.0050		mg/l		12/15/10 10:22	12/15/10 18:09	1
Lead	ND		0.0050		mg/l		12/15/10 10:22	12/15/10 18:09	1
Selenium	ND		0.010		mg/l		12/15/10 10:22	12/15/10 18:09	1
Silver	ND		0.010		mg/l		12/15/10 10:22	12/15/10 18:09	1

**Lab Sample ID: 10L1762-BLK1**  
**Matrix: Water**  
**Analysis Batch: 10L1762**

**Client Sample ID: 10L1762-BLK1**  
**Prep Type: total**  
**Prep Batch: 10L1762\_P**

Analyte	Blank	Blank	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chromium	0.0113	B	0.0050		mg/l		12/15/10 10:22	12/17/10 14:46	1

**Lab Sample ID: 10L1762-BS1**  
**Matrix: Water**  
**Analysis Batch: 10L1762**

**Client Sample ID: 10L1762-BS1**  
**Prep Type: total**  
**Prep Batch: 10L1762\_P**

Analyte	Spike	LCS	LCS	Unit	D	% Rec	% Rec.	
							Added	Result
Arsenic	1.00	0.988		mg/l		99	80 - 120	
Barium	1.00	1.01		mg/l		101	80 - 120	
Cadmium	1.00	0.976		mg/l		98	80 - 120	
Chromium	1.00	1.03		mg/l		103	80 - 120	
Lead	1.00	0.976		mg/l		98	80 - 120	
Selenium	1.00	0.963		mg/l		96	80 - 120	
Silver	0.500	0.481		mg/l		96	80 - 120	

# Quality Control Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

## Method: EPA 6010B - METALS (Continued)

**Lab Sample ID: 10L1762-MS1**

**Matrix: Water**

**Analysis Batch: 10L1762**

**Client Sample ID: ITL1284-01**

**Prep Type: total**

**Prep Batch: 10L1762\_P**

Analyte	Sample	Sample	Spike	Matrix Spike	Matrix Spike	D	% Rec	% Rec.	
	Result	Qualifier	Added	Result	Qualifier			Unit	Limits
Arsenic	ND		1.00	0.943			94	75 - 125	
Barium	5.49		1.00	6.77	MHA		128	75 - 125	
Cadmium	ND		1.00	0.966			97	75 - 125	
Chromium	ND		1.00	0.988			99	75 - 125	
Lead	ND		1.00	0.875			87	75 - 125	
Selenium	ND		1.00	0.833			83	75 - 125	
Silver	ND		0.500	0.501			100	75 - 125	

**Lab Sample ID: 10L1762-MSD1**

**Matrix: Water**

**Analysis Batch: 10L1762**

**Client Sample ID: ITL1284-01**

**Prep Type: total**

**Prep Batch: 10L1762\_P**

Analyte	Sample	Sample	Spike	Matrix Spike Dup	Matrix Spike Dup	D	% Rec	% Rec.		RPD
	Result	Qualifier	Added	Result	Qualifier			Unit	Limits	RPD
Arsenic	ND		1.00	0.928			93	75 - 125	2	20
Barium	5.49		1.00	6.79	MHA		130	75 - 125	0.3	20
Cadmium	ND		1.00	0.958			96	75 - 125	0.9	20
Chromium	ND		1.00	0.974			97	75 - 125	1	20
Lead	ND		1.00	0.934			93	75 - 125	7	20
Selenium	ND		1.00	0.827			83	75 - 125	0.8	20
Silver	ND		0.500	0.498			100	75 - 125	0.6	20

## Method: EPA 7470 - Total Metals by EPA Method 6010/7471

**Lab Sample ID: 10L0066-BLK1**

**Matrix: Water - NonPotable**

**Analysis Batch: 10L0066**

**Client Sample ID: 10L0066-BLK1**

**Prep Type: total**

**Prep Batch: 10L0066\_P**

Analyte	Blank	Blank	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	ND		0.0250	0.0119	ug/L		12/09/10 12:51	12/09/10 16:20	1

**Lab Sample ID: 10L0066-BS1**

**Matrix: Water - NonPotable**

**Analysis Batch: 10L0066**

**Client Sample ID: 10L0066-BS1**

**Prep Type: total**

**Prep Batch: 10L0066\_P**

Analyte	Spike	LCS	LCS	D	% Rec	% Rec.	
						Added	Result
Mercury	2.00	2.19			110	80 - 120	

**Lab Sample ID: 10L0066-MS1**

**Matrix: Water - NonPotable**

**Analysis Batch: 10L0066**

**Client Sample ID: EB-101129**

**Prep Type: total**

**Prep Batch: 10L0066\_P**

Analyte	Sample	Sample	Spike	Matrix Spike	Matrix Spike	D	% Rec	% Rec.	
	Result	Qualifier	Added	Result	Qualifier			Unit	Limits
Mercury	0.0800		2.00	2.15			104	85 - 115	

**Lab Sample ID: 10L0066-MSD1**

**Matrix: Water - NonPotable**

**Analysis Batch: 10L0066**

**Client Sample ID: EB-101129**

**Prep Type: total**

**Prep Batch: 10L0066\_P**

Analyte	Sample	Sample	Spike	Matrix Spike Dup	Matrix Spike Dup	D	% Rec	% Rec.		RPD
	Result	Qualifier	Added	Result	Qualifier			Unit	Limits	RPD
Mercury	0.0800		2.00	2.01			96	85 - 115	7	20

TestAmerica Honolulu

# Quality Control Data

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

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

**Lab Sample ID: 10L0144-BLK1**  
**Matrix: Solid/Soil**  
**Analysis Batch: 10L0144**

**Client Sample ID: 10L0144-BLK1**  
**Prep Type: total**  
**Prep Batch: 10L0144\_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00500	0.000100	mg/kg		12/20/10 09:29	12/20/10 16:32	1

**Lab Sample ID: 10L0144-BS1**  
**Matrix: Solid/Soil**  
**Analysis Batch: 10L0144**

**Client Sample ID: 10L0144-BS1**  
**Prep Type: total**  
**Prep Batch: 10L0144\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	Limits
Mercury	0.524	0.487		mg/kg		93	80 - 120

**Lab Sample ID: 10L0144-MS1**  
**Matrix: Solid/Soil**  
**Analysis Batch: 10L0144**

**Client Sample ID: FHMA-04**  
**Prep Type: total**  
**Prep Batch: 10L0144\_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	Limits
Mercury	0.0182		0.449	0.433		mg/kg		92	75 - 125

**Lab Sample ID: 10L0144-MSD1**  
**Matrix: Solid/Soil**  
**Analysis Batch: 10L0144**

**Client Sample ID: FHMA-04**  
**Prep Type: total**  
**Prep Batch: 10L0144\_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	Limits	RPD	Limit
Mercury	0.0182		0.463	0.451		mg/kg		94	75 - 125	4	20

**Lab Sample ID: 10L0145-BLK1**  
**Matrix: Solid/Soil**  
**Analysis Batch: 10L0145**

**Client Sample ID: 10L0145-BLK1**  
**Prep Type: total**  
**Prep Batch: 10L0145\_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00500	0.000100	mg/kg		12/20/10 09:59	12/20/10 17:38	1

**Lab Sample ID: 10L0145-BS1**  
**Matrix: Solid/Soil**  
**Analysis Batch: 10L0145**

**Client Sample ID: 10L0145-BS1**  
**Prep Type: total**  
**Prep Batch: 10L0145\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	Limits
Mercury	0.524	0.479		mg/kg		92	80 - 120

**Lab Sample ID: 10L0145-MS1**  
**Matrix: Solid/Soil**  
**Analysis Batch: 10L0145**

**Client Sample ID: MDA-10**  
**Prep Type: total**  
**Prep Batch: 10L0145\_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	Limits
Mercury	0.167		0.516	0.694		mg/kg		102	75 - 125

**Lab Sample ID: 10L0145-MSD1**  
**Matrix: Solid/Soil**  
**Analysis Batch: 10L0145**

**Client Sample ID: MDA-10**  
**Prep Type: total**  
**Prep Batch: 10L0145\_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	Limits	RPD	Limit
Mercury	0.167		0.590	0.741		mg/kg		97	75 - 125	7	20

# QC Association Summary

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

## GCMS-Semivolatiles

### Analysis Batch: 10L1268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
10L1268-BLK1	10L1268-BLK1	total	Water	EPA 8270C	10L1268_P
10L1268-BS1	10L1268-BS1	total	Water	EPA 8270C	10L1268_P
10L1268-BSD1	10L1268-BSD1	total	Water	EPA 8270C	10L1268_P
HTL0037-03	EB-101129	total	Water - NonPotable	EPA 8270C	10L1268_P
HTL0037-10	EB-101130	total	Water - NonPotable	EPA 8270C	10L1268_P

### Prep Batch: 10L1268\_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
10L1268-BLK1	10L1268-BLK1	total	Water	EPA 3520C	
10L1268-BS1	10L1268-BS1	total	Water	EPA 3520C	
10L1268-BSD1	10L1268-BSD1	total	Water	EPA 3520C	
HTL0037-03	EB-101129	total	Water - NonPotable	EPA 3520C	
HTL0037-10	EB-101130	total	Water - NonPotable	EPA 3520C	

### Analysis Batch: 10L1385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
10L1385-BLK1	10L1385-BLK1	total	Soil	EPA 8270C	10L1385_P
HTL0037-01	FHMA-01	total	Solid/Soil	EPA 8270C	10L1385_P
HTL0037-02	FHMA-02	total	Solid/Soil	EPA 8270C	10L1385_P
HTL0037-04	FHMA-03	total	Solid/Soil	EPA 8270C	10L1385_P
10L1385-BS1	10L1385-BS1	total	Soil	EPA 8270C	10L1385_P
HTL0037-05	FHMA-04	total	Solid/Soil	EPA 8270C	10L1385_P
HTL0037-06	FHMA-05	total	Solid/Soil	EPA 8270C	10L1385_P
HTL0037-07	FHMA-06	total	Solid/Soil	EPA 8270C	10L1385_P
HTL0037-08	FHMA-11	total	Solid/Soil	EPA 8270C	10L1385_P
HTL0037-09	FHMA-12	total	Solid/Soil	EPA 8270C	10L1385_P

### Prep Batch: 10L1385\_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
10L1385-BLK1	10L1385-BLK1	total	Soil	EPA 3546	
HTL0037-01	FHMA-01	total	Solid/Soil	EPA 3546	
HTL0037-02	FHMA-02	total	Solid/Soil	EPA 3546	
HTL0037-04	FHMA-03	total	Solid/Soil	EPA 3546	
10L1385-BS1	10L1385-BS1	total	Soil	EPA 3546	
HTL0037-05	FHMA-04	total	Solid/Soil	EPA 3546	
HTL0037-06	FHMA-05	total	Solid/Soil	EPA 3546	
HTL0037-07	FHMA-06	total	Solid/Soil	EPA 3546	
HTL0037-08	FHMA-11	total	Solid/Soil	EPA 3546	
HTL0037-09	FHMA-12	total	Solid/Soil	EPA 3546	

## GC Semivolatiles

### Analysis Batch: 10L0058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HTL0037-09	FHMA-12	total	Solid/Soil	EPA 8081	10L0058_P
10L0058-BLK1	10L0058-BLK1	total	Solid/Soil	EPA 8081	10L0058_P
10L0058-BS1	10L0058-BS1	total	Solid/Soil	EPA 8081	10L0058_P
10L0058-MS1	FHMA-04	total	Solid/Soil	EPA 8081	10L0058_P
10L0058-MSD1	FHMA-04	total	Solid/Soil	EPA 8081	10L0058_P
HTL0037-01	FHMA-01	total	Solid/Soil	EPA 8081	10L0058_P



# QC Association Summary

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

## GC Semivolatiles (Continued)

### Analysis Batch: 10L0058 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HTL0037-02	FHMA-02	total	Solid/Soil	EPA 8081	10L0058_P
HTL0037-04	FHMA-03	total	Solid/Soil	EPA 8081	10L0058_P
HTL0037-05	FHMA-04	total	Solid/Soil	EPA 8081	10L0058_P
HTL0037-06	FHMA-05	total	Solid/Soil	EPA 8081	10L0058_P
HTL0037-07	FHMA-06	total	Solid/Soil	EPA 8081	10L0058_P
HTL0037-08	FHMA-11	total	Solid/Soil	EPA 8081	10L0058_P

### Prep Batch: 10L0058\_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HTL0037-09	FHMA-12	total	Solid/Soil	EPA 3550 GC	
10L0058-BLK1	10L0058-BLK1	total	Solid/Soil	EPA 3550 GC	
10L0058-BS1	10L0058-BS1	total	Solid/Soil	EPA 3550 GC	
10L0058-MS1	FHMA-04	total	Solid/Soil	EPA 3550 GC	
10L0058-MSD1	FHMA-04	total	Solid/Soil	EPA 3550 GC	
HTL0037-01	FHMA-01	total	Solid/Soil	EPA 3550 GC	
HTL0037-02	FHMA-02	total	Solid/Soil	EPA 3550 GC	
HTL0037-04	FHMA-03	total	Solid/Soil	EPA 3550 GC	
HTL0037-05	FHMA-04	total	Solid/Soil	EPA 3550 GC	
HTL0037-06	FHMA-05	total	Solid/Soil	EPA 3550 GC	
HTL0037-07	FHMA-06	total	Solid/Soil	EPA 3550 GC	
HTL0037-08	FHMA-11	total	Solid/Soil	EPA 3550 GC	

### Analysis Batch: 10L0064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
10L0064-BLK1	10L0064-BLK1	total	Water - NonPotable	EPA 8081	10L0064_P
10L0064-BS1	10L0064-BS1	total	Water - NonPotable	EPA 8081	10L0064_P
10L0064-BSD1	10L0064-BSD1	total	Water - NonPotable	EPA 8081	10L0064_P
HTL0037-03	EB-101129	total	Water - NonPotable	EPA 8081	10L0064_P
HTL0037-10	EB-101130	total	Water - NonPotable	EPA 8081	10L0064_P

### Prep Batch: 10L0064\_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
10L0064-BLK1	10L0064-BLK1	total	Water - NonPotable	EPA 3510 GC	
10L0064-BS1	10L0064-BS1	total	Water - NonPotable	EPA 3510 GC	
10L0064-BSD1	10L0064-BSD1	total	Water - NonPotable	EPA 3510 GC	
HTL0037-03	EB-101129	total	Water - NonPotable	EPA 3510 GC	
HTL0037-10	EB-101130	total	Water - NonPotable	EPA 3510 GC	

### Analysis Batch: 10L0128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
10L0128-BS1	10L0128-BS1	total	Solid/Soil	EPA 8081	10L0128_P
10L0128-BLK1	10L0128-BLK1	total	Solid/Soil	EPA 8081	10L0128_P
10L0128-BS2	10L0128-BS2	total	Solid/Soil	EPA 8081	10L0128_P
10L0128-MS1	MDA-10	total	Solid/Soil	EPA 8081	10L0128_P
10L0128-MSD1	MDA-10	total	Solid/Soil	EPA 8081	10L0128_P
HTL0037-11	MDA-10	total	Solid/Soil	EPA 8081	10L0128_P
HTL0037-12	MDA-09	total	Solid/Soil	EPA 8081	10L0128_P



# QC Association Summary

Client: Weston Solutions, Inc.  
 Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
 SDG: HTL0037

## GC Semivolatiles (Continued)

### Analysis Batch: 10L0128 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HTL0037-13	MDA-08	total	Solid/Soil	EPA 8081	10L0128_P
HTL0037-14	MDA-07	total	Solid/Soil	EPA 8081	10L0128_P
HTL0037-15	MDA-13	total	Solid/Soil	EPA 8081	10L0128_P
HTL0037-16	MDA-14	total	Solid/Soil	EPA 8081	10L0128_P

### Prep Batch: 10L0128\_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
10L0128-BS1	10L0128-BS1	total	Solid/Soil	EPA 3550 GC	
10L0128-BLK1	10L0128-BLK1	total	Solid/Soil	EPA 3550 GC	
10L0128-BS2	10L0128-BS2	total	Solid/Soil	EPA 3550 GC	
10L0128-MS1	MDA-10	total	Solid/Soil	EPA 3550 GC	
10L0128-MSD1	MDA-10	total	Solid/Soil	EPA 3550 GC	
HTL0037-11	MDA-10	total	Solid/Soil	EPA 3550 GC	
HTL0037-12	MDA-09	total	Solid/Soil	EPA 3550 GC	
HTL0037-13	MDA-08	total	Solid/Soil	EPA 3550 GC	
HTL0037-14	MDA-07	total	Solid/Soil	EPA 3550 GC	
HTL0037-15	MDA-13	total	Solid/Soil	EPA 3550 GC	
HTL0037-16	MDA-14	total	Solid/Soil	EPA 3550 GC	

## Metals

### Analysis Batch: 10L0066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
10L0066-BLK1	10L0066-BLK1	total	Water - NonPotable	EPA 7470	10L0066_P
10L0066-BS1	10L0066-BS1	total	Water - NonPotable	EPA 7470	10L0066_P
HTL0037-03	EB-101129	total	Water - NonPotable	EPA 7470	10L0066_P
10L0066-MS1	EB-101129	total	Water - NonPotable	EPA 7470	10L0066_P
10L0066-MSD1	EB-101129	total	Water - NonPotable	EPA 7470	10L0066_P
HTL0037-10	EB-101130	total	Water - NonPotable	EPA 7470	10L0066_P

### Prep Batch: 10L0066\_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
10L0066-BLK1	10L0066-BLK1	total	Water - NonPotable	EPA 7470	
10L0066-BS1	10L0066-BS1	total	Water - NonPotable	EPA 7470	
HTL0037-03	EB-101129	total	Water - NonPotable	EPA 7470	
10L0066-MS1	EB-101129	total	Water - NonPotable	EPA 7470	
10L0066-MSD1	EB-101129	total	Water - NonPotable	EPA 7470	
HTL0037-10	EB-101130	total	Water - NonPotable	EPA 7470	

### Analysis Batch: 10L0090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
10L0090-BLK1	10L0090-BLK1	total	Solid/Soil	EPA 6010	10L0090_P
10L0090-BS1	10L0090-BS1	total	Solid/Soil	EPA 6010	10L0090_P
10L0090-MS1	FHMA-04	total	Solid/Soil	EPA 6010	10L0090_P
10L0090-MSD1	FHMA-04	total	Solid/Soil	EPA 6010	10L0090_P
HTL0037-01	FHMA-01	total	Solid/Soil	EPA 6010	10L0090_P



# QC Association Summary

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

## Metals (Continued)

### Analysis Batch: 10L0090 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HTL0037-02	FHMA-02	total	Solid/Soil	EPA 6010	10L0090_P
HTL0037-04	FHMA-03	total	Solid/Soil	EPA 6010	10L0090_P
HTL0037-05	FHMA-04	total	Solid/Soil	EPA 6010	10L0090_P
HTL0037-06	FHMA-05	total	Solid/Soil	EPA 6010	10L0090_P
HTL0037-07	FHMA-06	total	Solid/Soil	EPA 6010	10L0090_P
HTL0037-08	FHMA-11	total	Solid/Soil	EPA 6010	10L0090_P
HTL0037-09	FHMA-12	total	Solid/Soil	EPA 6010	10L0090_P
10L0090-BS1	10L0090-BS1	total	Solid/Soil	EPA 6010	10L0090_P
10L0090-MS1	FHMA-04	total	Solid/Soil	EPA 6010	10L0090_P
10L0090-MSD1	FHMA-04	total	Solid/Soil	EPA 6010	10L0090_P
HTL0037-02	FHMA-02	total	Solid/Soil	EPA 6010	10L0090_P
HTL0037-06	FHMA-05	total	Solid/Soil	EPA 6010	10L0090_P
HTL0037-08	FHMA-11	total	Solid/Soil	EPA 6010	10L0090_P
HTL0037-09	FHMA-12	total	Solid/Soil	EPA 6010	10L0090_P

### Prep Batch: 10L0090\_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
10L0090-BLK1	10L0090-BLK1	total	Solid/Soil	EPA 3050	
10L0090-BS1	10L0090-BS1	total	Solid/Soil	EPA 3050	
10L0090-MS1	FHMA-04	total	Solid/Soil	EPA 3050	
10L0090-MSD1	FHMA-04	total	Solid/Soil	EPA 3050	
HTL0037-01	FHMA-01	total	Solid/Soil	EPA 3050	
HTL0037-02	FHMA-02	total	Solid/Soil	EPA 3050	
HTL0037-04	FHMA-03	total	Solid/Soil	EPA 3050	
HTL0037-05	FHMA-04	total	Solid/Soil	EPA 3050	
HTL0037-06	FHMA-05	total	Solid/Soil	EPA 3050	
HTL0037-07	FHMA-06	total	Solid/Soil	EPA 3050	
HTL0037-08	FHMA-11	total	Solid/Soil	EPA 3050	
HTL0037-09	FHMA-12	total	Solid/Soil	EPA 3050	
10L0090-BS1	10L0090-BS1	total	Solid/Soil	EPA 3050	
10L0090-MS1	FHMA-04	total	Solid/Soil	EPA 3050	
10L0090-MSD1	FHMA-04	total	Solid/Soil	EPA 3050	
HTL0037-02	FHMA-02	total	Solid/Soil	EPA 3050	
HTL0037-06	FHMA-05	total	Solid/Soil	EPA 3050	
HTL0037-08	FHMA-11	total	Solid/Soil	EPA 3050	
HTL0037-09	FHMA-12	total	Solid/Soil	EPA 3050	

### Analysis Batch: 10L0144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
10L0144-BLK1	10L0144-BLK1	total	Solid/Soil	EPA 7471	10L0144_P
10L0144-BS1	10L0144-BS1	total	Solid/Soil	EPA 7471	10L0144_P
HTL0037-05	FHMA-04	total	Solid/Soil	EPA 7471	10L0144_P
10L0144-MS1	FHMA-04	total	Solid/Soil	EPA 7471	10L0144_P
10L0144-MSD1	FHMA-04	total	Solid/Soil	EPA 7471	10L0144_P
HTL0037-01	FHMA-01	total	Solid/Soil	EPA 7471	10L0144_P
HTL0037-02	FHMA-02	total	Solid/Soil	EPA 7471	10L0144_P
HTL0037-04	FHMA-03	total	Solid/Soil	EPA 7471	10L0144_P
HTL0037-06	FHMA-05	total	Solid/Soil	EPA 7471	10L0144_P
HTL0037-07	FHMA-06	total	Solid/Soil	EPA 7471	10L0144_P
HTL0037-08	FHMA-11	total	Solid/Soil	EPA 7471	10L0144_P
HTL0037-09	FHMA-12	total	Solid/Soil	EPA 7471	10L0144_P

# QC Association Summary

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

## Metals (Continued)

### Prep Batch: 10L0144\_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
10L0144-BLK1	10L0144-BLK1	total	Solid/Soil	EPA 7471	
10L0144-BS1	10L0144-BS1	total	Solid/Soil	EPA 7471	
HTL0037-05	FHMA-04	total	Solid/Soil	EPA 7471	
10L0144-MS1	FHMA-04	total	Solid/Soil	EPA 7471	
10L0144-MSD1	FHMA-04	total	Solid/Soil	EPA 7471	
HTL0037-01	FHMA-01	total	Solid/Soil	EPA 7471	
HTL0037-02	FHMA-02	total	Solid/Soil	EPA 7471	
HTL0037-04	FHMA-03	total	Solid/Soil	EPA 7471	
HTL0037-06	FHMA-05	total	Solid/Soil	EPA 7471	
HTL0037-07	FHMA-06	total	Solid/Soil	EPA 7471	
HTL0037-08	FHMA-11	total	Solid/Soil	EPA 7471	
HTL0037-09	FHMA-12	total	Solid/Soil	EPA 7471	

### Analysis Batch: 10L0145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
10L0145-BLK1	10L0145-BLK1	total	Solid/Soil	EPA 7471	10L0145_P
10L0145-BS1	10L0145-BS1	total	Solid/Soil	EPA 7471	10L0145_P
HTL0037-11	MDA-10	total	Solid/Soil	EPA 7471	10L0145_P
10L0145-MS1	MDA-10	total	Solid/Soil	EPA 7471	10L0145_P
10L0145-MSD1	MDA-10	total	Solid/Soil	EPA 7471	10L0145_P
HTL0037-12	MDA-09	total	Solid/Soil	EPA 7471	10L0145_P
HTL0037-14	MDA-07	total	Solid/Soil	EPA 7471	10L0145_P
HTL0037-13	MDA-08	total	Solid/Soil	EPA 7471	10L0145_P
HTL0037-15	MDA-13	total	Solid/Soil	EPA 7471	10L0145_P
HTL0037-16	MDA-14	total	Solid/Soil	EPA 7471	10L0145_P

### Prep Batch: 10L0145\_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
10L0145-BLK1	10L0145-BLK1	total	Solid/Soil	EPA 7471	
10L0145-BS1	10L0145-BS1	total	Solid/Soil	EPA 7471	
HTL0037-11	MDA-10	total	Solid/Soil	EPA 7471	
10L0145-MS1	MDA-10	total	Solid/Soil	EPA 7471	
10L0145-MSD1	MDA-10	total	Solid/Soil	EPA 7471	
HTL0037-12	MDA-09	total	Solid/Soil	EPA 7471	
HTL0037-14	MDA-07	total	Solid/Soil	EPA 7471	
HTL0037-13	MDA-08	total	Solid/Soil	EPA 7471	
HTL0037-15	MDA-13	total	Solid/Soil	EPA 7471	
HTL0037-16	MDA-14	total	Solid/Soil	EPA 7471	

### Analysis Batch: 10L0170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
10L0170-BLK1	10L0170-BLK1	total	Solid/Soil	EPA 6010	10L0170_P
10L0170-BS1	10L0170-BS1	total	Solid/Soil	EPA 6010	10L0170_P
10L0170-MS1	MDA-10	total	Solid/Soil	EPA 6010	10L0170_P
10L0170-MSD1	MDA-10	total	Solid/Soil	EPA 6010	10L0170_P
HTL0037-11	MDA-10	total	Solid/Soil	EPA 6010	10L0170_P
HTL0037-12	MDA-09	total	Solid/Soil	EPA 6010	10L0170_P
HTL0037-13	MDA-08	total	Solid/Soil	EPA 6010	10L0170_P
HTL0037-14	MDA-07	total	Solid/Soil	EPA 6010	10L0170_P
HTL0037-15	MDA-13	total	Solid/Soil	EPA 6010	10L0170_P
HTL0037-16	MDA-14	total	Solid/Soil	EPA 6010	10L0170_P

# QC Association Summary

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

## Metals (Continued)

### Prep Batch: 10L0170\_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
10L0170-BLK1	10L0170-BLK1	total	Solid/Soil	EPA 3050	
10L0170-BS1	10L0170-BS1	total	Solid/Soil	EPA 3050	
10L0170-MS1	MDA-10	total	Solid/Soil	EPA 3050	
10L0170-MSD1	MDA-10	total	Solid/Soil	EPA 3050	
HTL0037-11	MDA-10	total	Solid/Soil	EPA 3050	
HTL0037-12	MDA-09	total	Solid/Soil	EPA 3050	
HTL0037-13	MDA-08	total	Solid/Soil	EPA 3050	
HTL0037-14	MDA-07	total	Solid/Soil	EPA 3050	
HTL0037-15	MDA-13	total	Solid/Soil	EPA 3050	
HTL0037-16	MDA-14	total	Solid/Soil	EPA 3050	

### Analysis Batch: 10L1762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
10L1762-BS1	10L1762-BS1	total	Water	EPA 6010B	10L1762_P
10L1762-MS1	ITL1284-01	total	Water	EPA 6010B	10L1762_P
10L1762-MSD1	ITL1284-01	total	Water	EPA 6010B	10L1762_P
10L1762-BLK1	10L1762-BLK1	total	Water	EPA 6010B	10L1762_P
HTL0037-03	EB-101129	total	Water - NonPotable	EPA 6010B	10L1762_P
HTL0037-10	EB-101130	total	Water - NonPotable	EPA 6010B	10L1762_P
10L1762-BLK1	10L1762-BLK1	total	Water	EPA 6010B	10L1762_P
HTL0037-03	EB-101129	total	Water - NonPotable	EPA 6010B	10L1762_P
HTL0037-10	EB-101130	total	Water - NonPotable	EPA 6010B	10L1762_P

### Prep Batch: 10L1762\_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
10L1762-BS1	10L1762-BS1	total	Water	EPA 3005A ICP	
10L1762-MS1	ITL1284-01	total	Water	EPA 3005A ICP	
10L1762-MSD1	ITL1284-01	total	Water	EPA 3005A ICP	
10L1762-BLK1	10L1762-BLK1	total	Water	EPA 3005A ICP	
HTL0037-03	EB-101129	total	Water - NonPotable	EPA 3005A ICP	
HTL0037-10	EB-101130	total	Water - NonPotable	EPA 3005A ICP	
10L1762-BLK1	10L1762-BLK1	total	Water	EPA 3005A ICP	
HTL0037-03	EB-101129	total	Water - NonPotable	EPA 3005A ICP	
HTL0037-10	EB-101130	total	Water - NonPotable	EPA 3005A ICP	

## WetChem

### Analysis Batch: 10L0104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HTL0037-11	MDA-10	total	Solid/Soil	SM 2540G	10L0104_P
HTL0037-12	MDA-09	total	Solid/Soil	SM 2540G	10L0104_P
HTL0037-13	MDA-08	total	Solid/Soil	SM 2540G	10L0104_P
HTL0037-14	MDA-07	total	Solid/Soil	SM 2540G	10L0104_P
HTL0037-15	MDA-13	total	Solid/Soil	SM 2540G	10L0104_P
HTL0037-16	MDA-14	total	Solid/Soil	SM 2540G	10L0104_P

# QC Association Summary

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

## WetChem (Continued)

### Prep Batch: 10L0104\_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HTL0037-11	MDA-10	total	Solid/Soil	Default Prep GenChem	
HTL0037-12	MDA-09	total	Solid/Soil	Default Prep GenChem	
HTL0037-13	MDA-08	total	Solid/Soil	Default Prep GenChem	
HTL0037-14	MDA-07	total	Solid/Soil	Default Prep GenChem	
HTL0037-15	MDA-13	total	Solid/Soil	Default Prep GenChem	
HTL0037-16	MDA-14	total	Solid/Soil	Default Prep GenChem	

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

# Lab Chronicle

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

## Client Sample ID: FHMA-01

Date Collected: 11/29/10 12:15

Date Received: 12/03/10 13:05

## Lab Sample ID: HTL0037-01

Matrix: Solid/Soil

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	EPA 3546		0.963	10L1385_P	12/12/10 11:14	AG	TestAmerica Irvine
total	Analysis	EPA 8270C		1	10L1385	12/13/10 18:31	DF/	TestAmerica Irvine
total	Prep	EPA 3550 GC		0.935	10L0058_P	12/09/10 09:26	KB	TestAmerica Honolulu
total	Analysis	EPA 8081		1	10L0058	12/10/10 20:42	MFP	TestAmerica Honolulu
total	Prep	EPA 3050		0.949	10L0090_P	12/14/10 12:01	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		1	10L0090	12/17/10 16:38	RRG	TestAmerica Honolulu
total	Prep	EPA 7471		0.942	10L0144_P	12/20/10 09:29	JLM	TestAmerica Honolulu
total	Analysis	EPA 7471		1	10L0144	12/20/10 16:42	JLM	TestAmerica Honolulu

## Client Sample ID: FHMA-02

Date Collected: 11/29/10 16:30

Date Received: 12/03/10 13:05

## Lab Sample ID: HTL0037-02

Matrix: Solid/Soil

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	EPA 3546		0.878	10L1385_P	12/12/10 11:14	AG	TestAmerica Irvine
total	Analysis	EPA 8270C		2	10L1385	12/13/10 18:52	DF/	TestAmerica Irvine
total	Prep	EPA 3550 GC		0.955	10L0058_P	12/09/10 09:26	KB	TestAmerica Honolulu
total	Analysis	EPA 8081		1	10L0058	12/10/10 21:01	MFP	TestAmerica Honolulu
total	Prep	EPA 3050		0.958	10L0090_P	12/14/10 12:01	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		1	10L0090	12/17/10 16:49	RRG	TestAmerica Honolulu
total	Prep	EPA 7471		1.00	10L0144_P	12/20/10 09:29	JLM	TestAmerica Honolulu
total	Analysis	EPA 7471		1	10L0144	12/20/10 16:43	JLM	TestAmerica Honolulu
total	Analysis	EPA 6010		1	10L0090	12/21/10 14:09	RRG	TestAmerica Honolulu

## Client Sample ID: EB-101129

Date Collected: 11/29/10 16:45

Date Received: 12/03/10 13:05

## Lab Sample ID: HTL0037-03

Matrix: Water - NonPotable

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	EPA 3520C		1.04	10L1268_P	12/10/10 11:58	JMH	TestAmerica Irvine
total	Analysis	EPA 8270C		1	10L1268	12/13/10 17:07	DF/	TestAmerica Irvine
total	Prep	EPA 3510 GC		1.06	10L0064_P	12/09/10 13:48	KB	TestAmerica Honolulu
total	Analysis	EPA 8081		1	10L0064	12/10/10 18:45	MFP	TestAmerica Honolulu
total	Prep	EPA 7470		1.00	10L0066_P	12/09/10 12:51	CWP	TestAmerica Honolulu
total	Analysis	EPA 7470		1	10L0066	12/09/10 16:24	CWP	TestAmerica Honolulu
total	Prep	EPA 3005A ICP		1.00	10L1762_P	12/15/10 10:22	EN	TestAmerica Irvine
total	Analysis	EPA 6010B		1	10L1762	12/15/10 18:37	DP	TestAmerica Irvine
total	Analysis	EPA 6010B		1	10L1762	12/17/10 14:49	DP	TestAmerica Irvine

## Client Sample ID: FHMA-03

Date Collected: 11/30/10 08:55

Date Received: 12/03/10 13:05

## Lab Sample ID: HTL0037-04

Matrix: Solid/Soil

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	EPA 3546		0.948	10L1385_P	12/12/10 11:14	AG	TestAmerica Irvine

# Lab Chronicle

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

## Client Sample ID: FHMA-03

Date Collected: 11/30/10 08:55

Date Received: 12/03/10 13:05

## Lab Sample ID: HTL0037-04

Matrix: Solid/Soil

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Analysis	EPA 8270C		5	10L1385	12/13/10 19:13	DF/	TestAmerica Irvine
total	Prep	EPA 3550 GC		0.980	10L0058_P	12/09/10 09:26	KB	TestAmerica Honolulu
total	Analysis	EPA 8081		1	10L0058	12/10/10 21:21	MFP	TestAmerica Honolulu
total	Prep	EPA 3050		1.01	10L0090_P	12/14/10 12:01	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		1	10L0090	12/17/10 16:54	RRG	TestAmerica Honolulu
total	Prep	EPA 7471		0.935	10L0144_P	12/20/10 09:29	JLM	TestAmerica Honolulu
total	Analysis	EPA 7471		1	10L0144	12/20/10 16:45	JLM	TestAmerica Honolulu

## Client Sample ID: FHMA-04

Date Collected: 11/30/10 10:30

Date Received: 12/03/10 13:05

## Lab Sample ID: HTL0037-05

Matrix: Solid/Soil

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	EPA 3546		0.942	10L1385_P	12/12/10 11:14	AG	TestAmerica Irvine
total	Analysis	EPA 8270C		5	10L1385	12/13/10 19:34	DF/	TestAmerica Irvine
total	Prep	EPA 3550 GC		0.987	10L0058_P	12/09/10 09:26	KB	TestAmerica Honolulu
total	Analysis	EPA 8081		1	10L0058	12/10/10 21:40	MFP	TestAmerica Honolulu
total	Prep	EPA 3050		0.963	10L0090_P	12/14/10 12:01	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		1	10L0090	12/17/10 16:59	RRG	TestAmerica Honolulu
total	Prep	EPA 7471		0.992	10L0144_P	12/20/10 09:29	JLM	TestAmerica Honolulu
total	Analysis	EPA 7471		1	10L0144	12/20/10 16:36	JLM	TestAmerica Honolulu

## Client Sample ID: FHMA-05

Date Collected: 11/30/10 11:55

Date Received: 12/03/10 13:05

## Lab Sample ID: HTL0037-06

Matrix: Solid/Soil

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	EPA 3546		0.986	10L1385_P	12/12/10 11:14	AG	TestAmerica Irvine
total	Analysis	EPA 8270C		2	10L1385	12/13/10 19:55	DF/	TestAmerica Irvine
total	Prep	EPA 3550 GC		0.965	10L0058_P	12/09/10 09:26	KB	TestAmerica Honolulu
total	Analysis	EPA 8081		1	10L0058	12/10/10 22:00	MFP	TestAmerica Honolulu
total	Prep	EPA 3050		0.929	10L0090_P	12/14/10 12:01	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		1	10L0090	12/17/10 17:04	RRG	TestAmerica Honolulu
total	Prep	EPA 7471		0.924	10L0144_P	12/20/10 09:29	JLM	TestAmerica Honolulu
total	Analysis	EPA 7471		1	10L0144	12/20/10 16:46	JLM	TestAmerica Honolulu
total	Analysis	EPA 6010		1	10L0090	12/21/10 14:15	RRG	TestAmerica Honolulu

## Client Sample ID: FHMA-06

Date Collected: 11/30/10 15:10

Date Received: 12/03/10 13:05

## Lab Sample ID: HTL0037-07

Matrix: Solid/Soil

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	EPA 3546		2.32	10L1385_P	12/12/10 11:14	AG	TestAmerica Irvine
total	Analysis	EPA 8270C		5	10L1385	12/13/10 20:16	DF/	TestAmerica Irvine
total	Prep	EPA 3550 GC		0.987	10L0058_P	12/09/10 09:26	KB	TestAmerica Honolulu

# Lab Chronicle

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

## Client Sample ID: FHMA-06

Date Collected: 11/30/10 15:10

Date Received: 12/03/10 13:05

## Lab Sample ID: HTL0037-07

Matrix: Solid/Soil

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Analysis	EPA 8081		1	10L0058	12/10/10 22:19	MFP	TestAmerica Honolulu
total	Prep	EPA 3050		0.920	10L0090_P	12/14/10 12:01	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		1	10L0090	12/17/10 17:09	RRG	TestAmerica Honolulu
total	Prep	EPA 7471		0.850	10L0144_P	12/20/10 09:29	JLM	TestAmerica Honolulu
total	Analysis	EPA 7471		1	10L0144	12/20/10 16:59	JLM	TestAmerica Honolulu

## Client Sample ID: FHMA-11

Date Collected: 11/30/10 16:40

Date Received: 12/03/10 13:05

## Lab Sample ID: HTL0037-08

Matrix: Solid/Soil

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	EPA 3546		2.30	10L1385_P	12/12/10 11:14	AG	TestAmerica Irvine
total	Analysis	EPA 8270C		5	10L1385	12/13/10 20:37	DF/	TestAmerica Irvine
total	Prep	EPA 3550 GC		1.04	10L0058_P	12/09/10 09:26	KB	TestAmerica Honolulu
total	Analysis	EPA 8081		1	10L0058	12/10/10 22:39	MFP	TestAmerica Honolulu
total	Prep	EPA 3050		0.818	10L0090_P	12/14/10 12:01	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		1	10L0090	12/17/10 17:15	RRG	TestAmerica Honolulu
total	Prep	EPA 7471		1.01	10L0144_P	12/20/10 09:29	JLM	TestAmerica Honolulu
total	Analysis	EPA 7471		1	10L0144	12/20/10 17:01	JLM	TestAmerica Honolulu
total	Analysis	EPA 6010		1	10L0090	12/21/10 14:20	RRG	TestAmerica Honolulu

## Client Sample ID: FHMA-12

Date Collected: 11/30/10 18:15

Date Received: 12/03/10 13:05

## Lab Sample ID: HTL0037-09

Matrix: Solid/Soil

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	EPA 3546		2.46	10L1385_P	12/12/10 11:14	AG	TestAmerica Irvine
total	Analysis	EPA 8270C		5	10L1385	12/13/10 20:57	DF/	TestAmerica Irvine
total	Prep	EPA 3550 GC		0.932	10L0058_P	12/09/10 09:26	KB	TestAmerica Honolulu
total	Analysis	EPA 8081		1	10L0058	01/04/11 21:00	MFP	TestAmerica Honolulu
total	Prep	EPA 3050		0.961	10L0090_P	12/14/10 12:01	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		1	10L0090	12/17/10 17:20	RRG	TestAmerica Honolulu
total	Prep	EPA 7471		0.973	10L0144_P	12/20/10 09:29	JLM	TestAmerica Honolulu
total	Analysis	EPA 7471		1	10L0144	12/20/10 17:02	JLM	TestAmerica Honolulu
total	Analysis	EPA 6010		1	10L0090	12/21/10 14:25	RRG	TestAmerica Honolulu

## Client Sample ID: EB-101130

Date Collected: 11/30/10 16:20

Date Received: 12/03/10 13:05

## Lab Sample ID: HTL0037-10

Matrix: Water - NonPotable

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	EPA 3520C		1.04	10L1268_P	12/10/10 11:58	JMH	TestAmerica Irvine
total	Analysis	EPA 8270C		1	10L1268	12/13/10 17:28	DF/	TestAmerica Irvine
total	Prep	EPA 3510 GC		1.04	10L0064_P	12/09/10 13:48	KB	TestAmerica Honolulu
total	Analysis	EPA 8081		1	10L0064	12/10/10 19:04	MFP	TestAmerica Honolulu

# Lab Chronicle

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

## Client Sample ID: EB-101130

Date Collected: 11/30/10 16:20

Date Received: 12/03/10 13:05

## Lab Sample ID: HTL0037-10

Matrix: Water - NonPotable

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	EPA 7470		1.00	10L0066_P	12/09/10 12:51	CWP	TestAmerica Honolulu
total	Analysis	EPA 7470		1	10L0066	12/09/10 16:30	CWP	TestAmerica Honolulu
total	Prep	EPA 3005A ICP		1.00	10L1762_P	12/15/10 10:22	EN	TestAmerica Irvine
total	Analysis	EPA 6010B		1	10L1762	12/15/10 18:40	DP	TestAmerica Irvine
total	Analysis	EPA 6010B		1	10L1762	12/17/10 14:52	DP	TestAmerica Irvine

## Client Sample ID: MDA-10

Date Collected: 12/01/10 11:30

Date Received: 12/03/10 13:05

## Lab Sample ID: HTL0037-11

Matrix: Solid/Soil

Percent Solids: 54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	EPA 3550 GC		0.923	10L0128_P	12/17/10 08:54	MFP	TestAmerica Honolulu
total	Analysis	EPA 8081		1	10L0128	01/05/11 20:43	MFP	TestAmerica Honolulu
total	Prep	EPA 3050		0.961	10L0170_P	12/21/10 15:24	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		1	10L0170	12/22/10 13:27	RRG	TestAmerica Honolulu
total	Prep	EPA 7471		1.20	10L0145_P	12/20/10 09:59	JLM	TestAmerica Honolulu
total	Analysis	EPA 7471		1	10L0145	12/20/10 17:42	JLM	TestAmerica Honolulu
total	Prep	Default Prep GenChem		1.00	10L0104_P	12/15/10 17:00	JLM	TestAmerica Honolulu
total	Analysis	SM 2540G		1	10L0104	12/16/10 09:00	JLM	TestAmerica Honolulu

## Client Sample ID: MDA-09

Date Collected: 12/01/10 15:25

Date Received: 12/03/10 13:05

## Lab Sample ID: HTL0037-12

Matrix: Solid/Soil

Percent Solids: 51.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	EPA 3550 GC		0.987	10L0128_P	12/17/10 08:54	MFP	TestAmerica Honolulu
total	Analysis	EPA 8081		1	10L0128	01/05/11 21:02	MFP	TestAmerica Honolulu
total	Prep	EPA 3050		0.969	10L0170_P	12/21/10 15:24	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		1	10L0170	12/22/10 13:37	RRG	TestAmerica Honolulu
total	Prep	EPA 7471		0.901	10L0145_P	12/20/10 09:59	JLM	TestAmerica Honolulu
total	Analysis	EPA 7471		5	10L0145	12/20/10 18:16	JLM	TestAmerica Honolulu
total	Prep	Default Prep GenChem		1.00	10L0104_P	12/15/10 17:00	JLM	TestAmerica Honolulu
total	Analysis	SM 2540G		1	10L0104	12/16/10 09:00	JLM	TestAmerica Honolulu

## Client Sample ID: MDA-08

Date Collected: 12/02/10 09:40

Date Received: 12/03/10 13:05

## Lab Sample ID: HTL0037-13

Matrix: Solid/Soil

Percent Solids: 57.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	EPA 3550 GC		0.980	10L0128_P	12/17/10 08:54	MFP	TestAmerica Honolulu
total	Analysis	EPA 8081		1	10L0128	01/05/11 21:22	MFP	TestAmerica Honolulu
total	Prep	EPA 3050		0.953	10L0170_P	12/21/10 15:24	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		1	10L0170	12/22/10 13:42	RRG	TestAmerica Honolulu
total	Prep	EPA 7471		1.04	10L0145_P	12/20/10 09:59	JLM	TestAmerica Honolulu

# Lab Chronicle

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

**Client Sample ID: MDA-08**  
**Date Collected: 12/02/10 09:40**  
**Date Received: 12/03/10 13:05**

**Lab Sample ID: HTL0037-13**  
**Matrix: Solid/Soil**  
**Percent Solids: 57.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Analysis	EPA 7471		1	10L0145	12/20/10 18:29	JLM	TestAmerica Honolulu
total	Prep	Default Prep GenChem		1.00	10L0104_P	12/15/10 17:00	JLM	TestAmerica Honolulu
total	Analysis	SM 2540G		1	10L0104	12/16/10 09:00	JLM	TestAmerica Honolulu

**Client Sample ID: MDA-07**  
**Date Collected: 12/02/10 12:35**  
**Date Received: 12/03/10 13:05**

**Lab Sample ID: HTL0037-14**  
**Matrix: Solid/Soil**  
**Percent Solids: 51**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	EPA 3550 GC		0.980	10L0128_P	12/17/10 08:54	MFP	TestAmerica Honolulu
total	Analysis	EPA 8081		1	10L0128	01/05/11 21:42	MFP	TestAmerica Honolulu
total	Prep	EPA 3050		0.957	10L0170_P	12/21/10 15:24	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		1	10L0170	12/22/10 13:47	RRG	TestAmerica Honolulu
total	Prep	EPA 7471		1.01	10L0145_P	12/20/10 09:59	JLM	TestAmerica Honolulu
total	Analysis	EPA 7471		5	10L0145	12/20/10 18:19	JLM	TestAmerica Honolulu
total	Prep	Default Prep GenChem		1.00	10L0104_P	12/15/10 17:00	JLM	TestAmerica Honolulu
total	Analysis	SM 2540G		1	10L0104	12/16/10 09:00	JLM	TestAmerica Honolulu

**Client Sample ID: MDA-13**  
**Date Collected: 12/02/10 14:40**  
**Date Received: 12/03/10 13:05**

**Lab Sample ID: HTL0037-15**  
**Matrix: Solid/Soil**  
**Percent Solids: 51.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	EPA 3550 GC		0.938	10L0128_P	12/17/10 08:54	MFP	TestAmerica Honolulu
total	Analysis	EPA 8081		1	10L0128	01/05/11 22:01	MFP	TestAmerica Honolulu
total	Prep	EPA 3050		0.912	10L0170_P	12/21/10 15:24	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		1	10L0170	12/22/10 13:52	RRG	TestAmerica Honolulu
total	Prep	EPA 7471		1.18	10L0145_P	12/20/10 09:59	JLM	TestAmerica Honolulu
total	Analysis	EPA 7471		1	10L0145	12/20/10 18:30	JLM	TestAmerica Honolulu
total	Prep	Default Prep GenChem		1.00	10L0104_P	12/15/10 17:00	JLM	TestAmerica Honolulu
total	Analysis	SM 2540G		1	10L0104	12/16/10 09:00	JLM	TestAmerica Honolulu

**Client Sample ID: MDA-14**  
**Date Collected: 12/02/10 16:55**  
**Date Received: 12/03/10 13:05**

**Lab Sample ID: HTL0037-16**  
**Matrix: Solid/Soil**  
**Percent Solids: 56**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	EPA 3550 GC		0.980	10L0128_P	12/17/10 08:54	MFP	TestAmerica Honolulu
total	Analysis	EPA 8081		1	10L0128	01/05/11 22:21	MFP	TestAmerica Honolulu
total	Prep	EPA 3050		1.00	10L0170_P	12/21/10 15:24	RRG	TestAmerica Honolulu
total	Analysis	EPA 6010		1	10L0170	12/22/10 13:57	RRG	TestAmerica Honolulu
total	Prep	EPA 7471		1.07	10L0145_P	12/20/10 09:59	JLM	TestAmerica Honolulu
total	Analysis	EPA 7471		1	10L0145	12/20/10 18:32	JLM	TestAmerica Honolulu

# Lab Chronicle

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

**Client Sample ID: MDA-14**  
**Date Collected: 12/02/10 16:55**  
**Date Received: 12/03/10 13:05**

**Lab Sample ID: HTL0037-16**  
**Matrix: Solid/Soil**  
**Percent Solids: 56**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	Default Prep GenChem		1.00	10L0104_P	12/15/10 17:00	JLM	TestAmerica Honolulu
total	Analysis	SM 2540G		1	10L0104	12/16/10 09:00	JLM	TestAmerica Honolulu

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- 12
- 13
- 14

# Certification Summary

Client: Weston Solutions, Inc.  
 Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
 SDG: HTL0037

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 Irvine		USDA		P330-09-00080	04/29/12
TestAmerica Irvine	Arizona	State Program	9	AZ0671	10/13/11
TestAmerica Irvine	California	NELAC Primary AB	9	1108CA	01/31/11
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.



# Method Summary

Client: Weston Solutions, Inc.  
Project/Site: 12767.063.593.1121

TestAmerica Job ID: HTL0037  
SDG: HTL0037

Method	Method Description	Protocol	Laboratory
EPA 8270C	SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3546/8270C)		TAL IRV
EPA 8270C	SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3520C/8270C)		TAL IRV
EPA 8081	Organochlorine Pesticides by EPA Method 8081		TAL HON
EPA 6010	Total Metals by EPA Method 6010/7471		TAL HON
EPA 6010B	METALS		TAL IRV
EPA 7470	Total Metals by EPA Method 6010/7471		TAL HON
EPA 7471	Total Metals by EPA Method 6010/7471		TAL HON
SM 2540G	General Chemistry Parameters		TAL HON

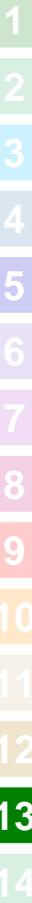
**Protocol References:**

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**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



LABORATORY USE ONLY  
LAB JOB NO. HTL2037  
LOCATION \_\_\_\_\_  
CONTAINERS \_\_\_\_\_

**Chain of Custody / Analysis Request Form**

Report to: Samantha Leskie  
Company name: Weston Solutions  
Address: 428 13th Street, 1st Floor #B  
City: Oakland State: CA ZIP: 94612  
Phone: 510.593.8629 Fax: \_\_\_\_\_  
Sampler: ACR, SDF # samples in shipment: 16  
Project identification: \_\_\_\_\_  
Job name: Kekaha Sugar Mill TBA  
Job number: 12767.003.593.1121  
P.O. number: \_\_\_\_\_  
Contact email address: Samantha.Leskie@westonsolutions.com  
Date results needed: \_\_\_\_\_

Item no.	Client sample ID	COMP	GRAB	Matrix										Date	Time	No. of containers	Indicate analyses requested	Laboratory ID no.	
				Water	Soil	Wastewater	Drinking water	Sludge	Liquid	Solid	Oil	Other	Preservation						
1	FHMA-01		X												11/29/10	1215	1	X X X X X X X X X X X X	HTC0057 01
2	FHMA-02		X												11/29/10	1630	1	X X X X X X X X X X X X	
3	EB-101129		X												11/29/10	1645	4	X X X X X X X X X X X X	
4	FHMA-03		X												11/30/10	0855	1	X X X X X X X X X X X X	
5	FHMA-04		X												11/30/10	1030	1	X X X X X X X X X X X X	MS/MSD
6	FHMA-05		X												11/30/10	1155	1	X X X X X X X X X X X X	
7	FHMA-06		X												11/30/10	1510	1	X X X X X X X X X X X X	
8	FHMA-11		X												11/30/10	1640	1	X X X X X X X X X X X X	
9	FHMA-12		X												11/30/10	1815	1	X X X X X X X X X X X X	
10	EB-101130		X												11/30/10	1620	4	X X X X X X X X X X X X	

Released by (print / sign): Anthony Rodriguez Date / time released: 12/10/10 1305  
 Delivery method: hand  
 Received by (print / sign): Jefferson Elstner Date / time received: 12/10/10 1305  
 Company / Agency affiliation: hahm Condition noted: O'Connell / not

Comments: Please Contact PM when preliminary results available. Bioaccessible  
Arsenic samples will be analyzed.  
 Please check one:  
 Dispose by lab  
 Return to client  
 Archive  
 Distribution: \_\_\_\_\_ White - TestAmerica Yellow - TestAmerica Pink - Client  
 Page 1 of 2

LABORATORY USE ONLY  
 LAB JOB NO. MTL0037  
 LOCATION \_\_\_\_\_  
 CONTAINERS \_\_\_\_\_

## Chain of Custody / Analysis Request Form

Report to: Samantha Leskie  
 Company name: Weston Solutions  
 Address: 428 13th St, 6th Floor # B  
 City: Oakland State: CA ZIP: 94612  
 Phone: 512.593.8629 Fax: \_\_\_\_\_  
 Contact email address: Samantha.leskie@westonsolutions.com  
 Date results needed: \_\_\_\_\_  
 Job name: Kekaha Sugar Mill, TBA  
 Job number: 12767.063.593.1121  
 P.O. number: \_\_\_\_\_  
 Matrix: \_\_\_\_\_  
 Preservation method: \_\_\_\_\_  
 Other: \_\_\_\_\_  
 Matrix: \_\_\_\_\_  
 Drinking water: \_\_\_\_\_  
 Wastewater: \_\_\_\_\_  
 Soil: \_\_\_\_\_  
 Water: \_\_\_\_\_  
 GRAB: \_\_\_\_\_  
 COMP: \_\_\_\_\_  
 # samples in shipment: 16

Item no.	Client sample ID	COMP	GRAB	Matrix	Preservation method	Sampling		No. of containers	Indicate analyses requested	Company / Agency affiliation	Date / time received	Condition noted
						Date	Time					
1	MDA-10	X	X		ISE	12/1/10	1130	2	X	X		
2	MDA-09	X	X		ICE	12/1/10	1525	1	X	X		
3	MDA-08	X	X		ISE	12/2/10	0940	1	X	X		
4	MDA-07	X	X		ICE	12/2/10	1235	1	X	X		
5	MDA-13	X	X		ICE	12/1/10	1440	1	X	X		
6	MDA-14	X	X		ICE	12/2/10	1655	1	X	X		
7												
8												
9												
10												
	Anthony Leskie, Jr		hand							tabul	12/10/1300	0'C intact/wet

Released by (print / sign): \_\_\_\_\_ Date / time released: \_\_\_\_\_  
 Received by (print / sign): Jefferson Eladed Date / time received: \_\_\_\_\_  
 Delivery method: hand  
 Company / Agency affiliation: tabul  
 Condition noted: 0'C intact/wet

Comments: \_\_\_\_\_

Please check one:  
 Dispose by lab  
 Return to client  
 Archive

### Sample Receipt Checklist

Client Name: Wiston Date/ Time Received: 12/2/10 1205

Received By: ea

Matrices: soil / Ag Carrier: direct Airbill#: \_\_\_\_\_

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Chain of Custody present?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>
Chain of Custody Signed when relinquished and received?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
Chain of Custody agrees with sample labels?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
Sample containers on ice?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Type: _____
Sufficient sample volume for indicated test?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Water - VOA Vials have Zero Headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials present: <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Checked: <input checked="" type="checkbox"/>
pH Adjusted?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Final pH: _____
Encores / MI-VOC / 5035 Vials Present?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Location: _____
Sample Filtration Needed?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Filtered in Field: <input type="checkbox"/>
Dry Weight Corrected Results?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Take Action: <input type="checkbox"/>
DODQSM / QAPP Project?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Type: _____
Temperature Blank Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Sample Container Temperature:	<u>0</u> °C		

### Comments/ Sampling Handling Notes:

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# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

## INVOICE

<b>Invoice To:</b> Weston Solutions, Inc. Samantha Leskie Davies Pacific Center - 841 Bishop Street, Suite 2301 Honolulu, HI 96813 1352875		<b>Invoice Number:</b> 37002251				
<b>Remit Payment To:</b> TestAmerica Laboratories, Inc. Dept 2314 P.O. Box 122314 Dallas, TX 75312-2314 TestAmerica EIN: 23-2919996 For Billing Inquiries please contact: 808-486-5227						
<b>Invoice Date:</b> 01/31/11	<b>Client:</b> Weston Solutions, Inc. <b>Client Contact:</b> Samantha Leskie	<b>Terms:</b> See Below				
<b>Lab Contact:</b> Marvin D. Heskett III marvin.heskett@testamericainc.com	<b>Project:</b> Kekaha Sugar Mill / 12767.063.593.1121 <b>PO Number:</b> NA <b>Samples Received:</b> 01/21/11	<b>Samples Reported:</b> 01/31/11				
<b>Workorder:</b> HUA0106						
Qty	Analysis/Description	Matrix	Rush TAT	Rush Charge	Unit Cost	Extended Cost
8	Arsenic PBET SW 6010	Solid/Soil	NA	None	\$350.00	\$2,800.00
<b>Additional Items</b>						
1	Sales Tax - Hawaii (4.712%)				4.71%	\$131.88
<b>Invoice Total:</b>						<b>\$2,931.88</b>

Any applicable rush charges are based on the actual turn-around-time met.

\$350 total for As PBET (including MI prep/extraction). EMF reduced.



**Heskett, Marvin**

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**From:** Leskie, Samantha [Samantha.Leskie@WestonSolutions.com]  
**Sent:** Friday, January 21, 2011 11:31 AM  
**To:** Heskett, Marvin  
**Subject:** Additional request for Bio accessible Arsenic testing for Kekaha samples.  
**Follow Up Flag:** Follow up  
**Flag Status:** Red

Aloha Marvin,

I need to request Bio Accessible Arsenic testing on the following Kekaha Samples:

FHMA-02  
FHMA-05  
FHMA-06  
FHMA-11 (replicate sample of FHMA-06)  
FHMA-12 (replicate sample of FHMA-06)

MDA-08  
MDA-09  
MDA-10

What is the TAT?

Also, do you have any brief write-up on the methods used for bio accessible Arsenic testing?

Thank you very much!!!

*Samantha Leskie*

Principal Project Scientist/GIS Specialist  
Weston Solutions, Inc.  
**Cell. 510-593-8629**  
Main. 510-788-3810  
428 13th Street  
6th Floor, Suite B  
Oakland, California 94612-2618

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Rush TAT Confirmation (Initial/Date) \_\_\_\_\_

**Sample Receipt Checklist**

Client Name: Wiston Date/Time Received: 12/2/10 12:05

Received By: ea

Matrices: soil/Aq

Carrier: dist

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: \_\_\_\_\_
- 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: 0 °C

**Comments/ Sampling Handling Notes:**

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