

APPENDIX L

Phase I
Environmental Site
Assessment and
Supplemental Data

***Phase I
Environmental
Site Assessment***

PHASE I ENVIRONMENTAL SITE ASSESSMENT

Former Punalene Piggery Site
South Fire Break Road
Punalene, Maui, Hawaii 96784
TMK (2) 3-8-008: Parcel 019

Prepared For:
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ETC Project No. 11-1001
March 2011

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1.0 EXECUTIVE SUMMARY

This report presents the results of a Phase I Environmental Site Assessment (ESA) performed by EnviroServices & Training Center, LLC (ETC) in conformance with the scope and limitations of the American Society for Testing and Materials (ASTM) Practice E-1527-05. This Phase I ESA was completed for A&B Properties, Inc. (A&B) for the Subject Property located at South Fire Break Road, Punene, Maui, Hawaii and identified as Tax Map Key (TMK) identification number (2) 3-8-008; Parcel 019. Review of tax records revealed that the Subject Property is currently owned by A&B - Hawaii, Inc.

The Subject Property consists of an approximate 86-acre portion of land identified as land parcel 19. The Subject Property was most recently used as a piggery and an unpermitted solid waste management facility. In October 1998, the Subject Property was inspected by the Hawaii Department of Health (DOH) Solid Waste Section (SWS). As a result, on November 27, 1998, the DOH SWS issued Mr. Larry Poffenroth, operator of the Subject Property, a letter indicating several violations at the Subject Property. In addition, the letter ordered Mr. Poffenroth to cease and desist all salvaging operations, and stated that a formal Notice of Violation (NOV) would be issued if he did not respond within 15-days. The DOH SWS reportedly issued a second letter, dated December 23, 1998 regarding the closure of the illegal solid waste management operations at the Subject Property. Since no response was received for the November and December 1998 letters, the DOH SWS issued a "warning letter" on May 5, 1999 indicating that if closure of the facility is not completed as requested, the DOH may institute an administrative or civil action for the current and prior solid waste violations. No apparent further action was taken or pursued by the DOH SWS from May 1999 to June 2005, when an anonymous complaint was reported to the DOH SWS that Mr. Poffenroth was accepting white goods and baling white goods and cars at the piggery.

As a result of the anonymous complaint, the DOH SWS conducted a site inspection of the Subject Property in September 2005. The inspection report indicated that an accumulation of solid waste (i.e. scrap metal, green waste, construction and demolition waste, etc.) was observed on the Subject Property. Subsequently, the DOH SWS issued Mr. Poffenroth a "Letter of Interest," dated September 19, 2005, requesting that removal and proper disposal of the solid waste on the Subject Property be completed within one year. A&B subsequently initiated and completed cleanup activities, which were completed in February 2011. Clearance from the DOH SWS is currently pending. As part of the planned cleanup activities, A&B also agreed to conduct a "comprehensive site assessment" of the Subject Property. Specifically, A&B contracted ETC to prepare a site investigation work plan to investigate whether the surface soils at the Subject Property have been impacted by the former solid waste management activities. Site investigation activities were conducted concurrently with this Phase I ESA and will be reported under separate cover. Based on this information, ETC cannot dismiss the fact that Subject Property soils may have been impacted by the former solid waste management activities.

Historic maps and documents provided by the landowner indicated that the Subject Property was part of the former Puunene Naval Air Station (PNAS). Review indicated that a "machine gun range" was formerly located on or partially on the southernmost portion of the Subject Property. "Earth revetments," presumably at the impact zone of the gun range, were formerly located near the current southern property line, and it is unclear whether these revetments were within or just outside of the Subject Property boundaries. The remaining areas of the former PNAS on the Subject Property appeared to be used primarily for quarters, office space, and barracks. Past environmental investigations and cleanups have been conducted on areas of the base west of the Subject Property. Although no evidence of past investigations of the gunnery range was identified, residual heavy metals are common contaminants associated with former military firing ranges. As such, this finding is considered a historical recognized environmental condition (REC). While the "earth revetments," are no longer present and there is evidence that soil in the presumed gunnery range impact zone has been excavated at some time in the past, based on information provided by the landowner coupled with ETC's telephone correspondence with DOH HEER Office personnel, ETC cannot dismiss the potential presence of residual contamination from this historical REC and as such the former "machine gun range" is considered a current REC for the Subject Property.

ETC performed a site reconnaissance on February 17, 2011 and March 1, 2011 in order to complete a visual survey to identify the use and/or storage of hazardous materials. With the exception of the radio tower and other appurtenant structures, no visible structures were observed on the Subject Property. Note that several apparent building foundations in the form of concrete slabs were observed on the Subject Property. ETC personnel observed a non-potable water well located on the central portion of the Subject Property. The southernmost portion of the Subject Property appeared to be used for current sugarcane cultivation activities. ETC observed limited quantities of cathode ray tubes (CRTs), batteries, and other wastes within a metal storage bin located on the northwest portion of the Subject Property. According to the landowner, these materials are being prepared for shipment and proper disposal. The bin is situated on an apparent concrete slab. No releases were observed in the vicinity of this bin. In addition, limited quantities of apparent metal debris were observed on the Subject Property. ETC understands that all remaining metal debris and wastes contained within the metal bin are planned for removal and disposal.

The Subject Property was not listed in any of the government databases by the contracted database search. The contracted database search identified one (1) Formerly Used Defense Site, and three (3) Orphan sites within the specified radii. Based on these findings, ETC reviewed select facility files and/or correspondence with personnel from the Hawaii Department of Health (DOH) Solid and Hazardous Waste Branch (SHWB) and DOH Hazard Evaluation and Emergency Response (HEER) Office. Findings indicate that a portion of the former *Maui Airport Military Reservation (also known as the PNAS)* was located on the Subject Property. Although not identified by the contracted database, information provided by the landowner coupled with the available online RCRA database information revealed that Subject Property was identified as a RCRA Large Quantity Generator (LQG). Specifically, the "Former Poffenroth Piggery" is listed as a RCRA LQG with no apparent RCRA violations.

In summary, ETC performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E1527-05 on the Subject Property. This assessment has revealed no evidence of RECs in connection with the Subject Property except for the following:

- Potential presence of residual contaminants associated with former solid waste management activities on the Subject Property.
- Potential presence of residual contamination associated with historic usage of the southernmost portion of the Subject Property as a "machine gun range."

2.0 INTRODUCTION

EnviroServices & Training Center, LLC (ETC) was contracted by A&B Properties, Inc. (Client) to complete a Phase I Environmental Site Assessment (ESA) for the Subject Property located at South Fire Break Road, Punahoa, Maui, Hawaii. The Subject Property is identified as Tax Map Key (TMK) identification number (2) 3-8-008 Parcel 019.

This Phase I ESA was performed in accordance with the ASTM International Standard E1527-05 entitled *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (referred to herein as the ASTM Practice). The ASTM Practice is intended for use by parties who wish to assess the environmental condition of commercial real estate with respect to contaminants within the scope of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and petroleum products. As such, the ASTM Practice was designed to satisfy "all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice" as defined in 42 United States Code (U.S.C.) §9601(35)(B).

2.1 Background

Under CERCLA, persons may be held liable for cleaning up hazardous substances at properties that they either currently own or operate, or owned or operated at the time of disposal. Strict liability in the context of CERCLA means that a potentially responsible party may be liable for environmental contamination based solely on property ownership and without regard to fault or negligence.

In 1986, the Superfund Amendments and Reauthorization Act (SARA) amended CERCLA by creating an "innocent landowner" defense to CERCLA liability for those persons who could successfully demonstrate, among other requirements, that they "did not know and had no reason to know" prior to purchasing the property that any hazardous substance that is the subject of a release or threatened release was disposed of on, in, or at the property. Such persons, to demonstrate that they had "no reason to know" must have undertaken, prior to, or on the date of acquisition of the property, "all appropriate inquiries" into the previous ownership and uses of the property consistent with good commercial or customary standards and practices.

The Small Business Liability Relief and Brownfields Revitalization Act (referred to as "the Brownfields Amendments") was enacted in January 2002 to amend CERCLA. These amendments included providing funds to assess and clean up brownfields sites, clarifying CERCLA liability provisions for certain landowners, and providing funding to enhance state and tribal cleanup programs.

Subtitle B of Title II of the Brownfields Amendments revised CERCLA, clarifying the requirements necessary to establish the innocent landowner defense. The Brownfields Amendments also added protections from CERCLA liability for "bona fide prospective purchasers" and "contiguous property owners" who meet certain statutory requirements. Each of the CERCLA liability provisions for innocent landowners, bona fide prospective purchasers, and contiguous property owners (referred to collectively as "landowner liability protections," or LLPs) requires that, among other requirements, persons claiming the liability protections conduct all appropriate inquiries into prior ownership and use of a property prior to or on the date a person acquires a property.

A key provision of the Brownfields Amendments was to finalize regulations setting federal standards for the conduct of all appropriate inquiries. Such federal standards were promulgated in the *Standards and Practices for All Appropriate Inquiries, Final Rule, 40 CFR Part 312*, referred to as the AAI Final Rule.

Section 312.11 of the AAI Final Rule indicates that the ASTM International Standard E1527-05, entitled *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*, may be used to comply with the requirements set forth in Sections 312.23 through 312.31 of the AAI Final Rule. Therefore, this Phase I ESA was performed in conformance with the ASTM International Standard E1527-05.

2.2 Purpose

The purpose and goal of this Phase I ESA is to conduct an inquiry designed to identify recognized environmental conditions in connection with the Subject Property, to the extent feasible pursuant to the process described in the ASTM Practice. The term recognized environmental condition (REC) is defined as:

"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."

2.3 Scope of Services

The scope of work included the following:

- Development of a site description for the Subject Property including site background, physical characteristics and historical site conditions;
- Evaluation of user provided information including but not limited to environmental liens, activity and use limitations, specialized knowledge, valuation reduction of environmental issues, and other information pertaining to the property;
- Evaluation of information in programs such as NPL, CERCLIS, FINDS, ERNS, RCRA notifiers, and other governmental information systems within specific radii of the property to identify sites that would have the potential to impact the property;
- Visual evaluation of current site conditions (as applicable) including compliance with appropriate regulations as they pertain to the presence of facility storage tanks, drums, and containers; and transformers and other electrical equipment potentially containing PCBs;
- Visual evaluation of the adjacent properties to identify high-risk neighbors and the potential for a chemical to migrate onto the property; and
- Interviews with owner(s), site manager(s), occupant(s), local government official(s), and/or other individuals with past and prior use history of the property.
- Evaluation of non-scope consideration pertaining to the solid and hazardous waste compliance status of the former Subject Property operations.

2.4 Significant Assumptions

This Phase I ESA is limited by the availability of information at the time of the assessment. Interviews were conducted and interviewee's responses were assumed to be provided in good faith, to the extent of his/her actual knowledge. In addition, since no hydrogeological data was available for the Subject Property, the groundwater was assumed to flow in the direction of the surface topography of the Subject Property and surrounding areas.

2.5 Conditions and Limitations

ETC has completed this Phase I ESA for the Subject Property in accordance with the scope and limitations of ASTM Practice E1527-05. ETC's findings and conclusions contained herein are professional opinions based solely upon visual observations, interviews, and interpretation of the historical information and documents available to ETC at the time this Phase I ESA was conducted. Opinions stated in this report do not apply to changes that may have occurred after the services were performed.

ETC has performed specified services for this project with the degree of care, skill and diligence ordinarily exercised by professional consultants performing the same or similar services. No other warranty, guarantee, or representation, expressed or implied, is included or intended, unless otherwise specifically agreed to in writing by both ETC and ETC's Client.

2.6 User Reliance

This report is intended for the sole use of ETC's Client, exclusively for the project site indicated. ETC's Client may use and release this report, including making and retaining copies, provided such use is limited to the particular site and project for which this report is provided. However, the services performed may not be appropriate for satisfying the needs of other users. Release of this report to third-parties will be at the sole risk of Client and/or said user, and ETC shall not be liable for any claims or damages resulting from or connected with such release or any third party's use or reuse of this report.

2.7 Environmental Professional Certification

We declare that, to the best of our professional knowledge and belief, we meet the definition of *Environmental Professional* as defined in §312.10 of 40 CFR 312. We have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Subject Property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Prepared by:


Sharla Nakashima
Environmental Professional
EnviroServices & Training Center, LLC

Date: March 16, 2011

3.0 SITE DESCRIPTION

3.1 Location and Description

The Subject Property consists of an 86-acre portion of land parcel 19 located off of South Fire Break Road, Puuene, Maui, Hawaii, and situated on the central portion of the island of Maui. The site is located approximately 0.9 miles east of State Highway 311 (Mokulele Highway).

3.2 Physical Setting

Groundcover at the Subject Property generally consists of bare soil and sparse to dense vegetation with limited areas of concrete (building foundation remnants) and asphalt (interior Subject Property roads).

3.2.1 Site Topography

Topographic map coverage of the Subject Property vicinity is provided by the United States Geological Survey Island of Maui, Hawaii 7.5-minute Pau O Kali Quadrangle, 1983. The elevation of the Subject Property is approximately 110 to 140 feet above mean sea level (msl). Topography at the site is relatively flat with a very slight downward gradient to the west towards Mokulele Highway.

3.2.2 Regional Geology

The island of Maui is the second largest of the Hawaiian Islands. Maui consists of two shield volcanoes with a connecting isthmus. The volcanic rocks of the West Maui Mountains (West Maui Volcano) are divided into three series. The oldest is the Wailuku Volcanic Series, followed by the Honolua and Lahaina Volcanic Series. The Wailuku Series built the major shield volcano comprised of basaltic lava flows and associated pyroclastic deposits. The Lahaina Series then covered the western slopes of the West Maui Volcano.

The Haleakala Volcano last erupted around 1790 and is presently dormant. The shield of the volcano is composed of a and pahoehoe lava flows of the olivine, theoleiitic olivine basalt, and oceanite known as the Honomanu Volcano Series. The Kula Volcanic Series overlies the Honomanu Series and is comprised of hawaiite, alkalic olivine basalt, and ankaramite. Lava flows from the Haleakala volcano formed the Maui Isthmus and are made up of permeable basalt and erosional deposits (Macdonald, et al., 1983).

3.2.3 Site Geology

Soil at the Property is classified by the U.S. Department of Agriculture (USDA) Soil Conservation Service as Waukoku extremely stony silty clay loam, 3 to 25 percent slopes (WID2). As described by the USDA, WID2 soils consist of moderately deep, well drained soils from weathered rock. In a representative profile, the surface layer consists of extremely stony silty clay loam, the subsoil is a stony silty clay loam, and the substratum consists of bedrock. Annual rainfall amounts to 15 inches. WID2 soils are generally used for pasture and irrigated sugarcane (USDA, 1972).

3.2.4 Regional Hydrogeology

The primary drinking water in the Hawaiian Islands is drawn from basal groundwater. Basal groundwater is formed by rainwater percolating down through the residual soils and permeable volcanic rock. The portion of the island situated below sea level, except within rift zones of the volcanoes, is saturated with ocean salt water and thus forms a basal lens called the "Ghyben-Herzberg" lens. A zone of transition between the fresh groundwater and the ocean salt water occurs due to the constant movement of the interface as a result of tidal fluctuations, seasonal fluctuations in recharge and discharge and aquifer development (Macdonald, et al., 1983).

Downward percolation of rainwater may be stopped by impermeable layers such as dense lava flows, alluvial clay layers and volcanic ash. The groundwater then forms a perched or high level aquifer, which is not in contact with salt water. Recharge of the aquifer occurs in areas of high rainfall, which are the interior mountainous areas. The groundwater flows from the recharge areas to the areas of discharge along the shoreline. Frictional resistance to groundwater flow causes it to pile up within the island until it attains sufficient hydraulic head to overcome friction. Thus, basal groundwater tends to slope toward the shoreline.

3.2.5 Site Hydrogeology

The site is underlain by the Paia Aquifer System, which is part of the Central Aquifer Sector on the island of Maui. The aquifer is classified by Mink and Lau, 1990, with the system identification number 60302214 (33221). This system includes an unconfined, high-level aquifer in a perched layer. The aquifer is described as having no potential use and is neither a drinking water resource nor ecologically important. The groundwater is also described as containing groundwater with a low salinity (250 to 1,000 mg/l Cl) and is considered replaceable with a high vulnerability to contamination (Mink and Lau, 1990).

The site is further underlain by a second aquifer of the same system. The aquifer is an unconfined basal aquifer underlain with basalt of the Honomanu volcanic series covered by andesitic rocks of the Kula volcanic series, and is classified with the system identification number 60302111 (11112). The aquifer is described as a currently used, drinking water source, containing groundwater with a fresh salinity (<250 mg/l Cl). It is also described as irreplaceable with a moderate vulnerability to contamination (Mink and Lau, 1990). Groundwater is anticipated at approximately 120- feet bgs.

3.2.6 Nearest Surface Water Bodies

The nearest surface water body is the Haiku Ditch Reservoir located on the northern adjoining property across Crusher Road. A gulch runs along the southern adjoining property flowing west-southwest toward the Kealia Pond National Wildlife Refuge and draining into the Pacific Ocean at Maalea Bay.

3.3 Current Use of the Subject Property

The southernmost portion of the Subject Property is currently used for sugarcane cultivation. There is fenced area consisting of a radio tower and other appurtenant structures (i.e. small building structure and shipping container). With the exception of the metal storage bin, all other areas of the Subject Property are currently vacant with no visible structures. All former structures have been demolished and/or removed; however, several concrete foundations and remnants of former building foundations are present on the Subject Property.

3.4 Current Uses of the Adjoining Properties

ETC visually inspected the neighboring properties and their operations from the Subject Property and publicly accessible areas. The Subject Property is bordered to the north by a roadway, beyond which is a reservoir; to the east by a roadway, beyond which is the Mauu Raceway Park; and to the east and south by sugarcane fields. Other land uses observed in the vicinity consisted of cement quarry and agricultural lands.

4.0 USER PROVIDED INFORMATION AND DOCUMENT REVIEW

4.1 Required Information

This section is intended to provide information obtained from the user of this Phase I ESA that will help identify RECs associated with the Subject Property. The information provided does not require the user to have the technical expertise of an environmental professional and is generally not provided by the environmental professional performing the Phase I ESA.

In order to qualify for one of the LLPs offered by the Brownfields Amendments, the user must provide the following information (if available) to the environmental professional. Failure to provide this information could result in a determination that "all appropriate inquiry" is not complete. Mr. Sean O'Keefe, Director of Environmental Affairs, Alexander & Baldwin, Inc. ("user"), provided ETC with the following information.

4.1.1 Environmental Liens

The user indicated that no environmental liens for the Subject Property, however there were at least four governmental notifications relating to past or recurrent violations of environmental laws with respect to the Subject Property. These letters are discussed further in Section 4.3.

4.1.2 Activity and Use Limitations

The user had no knowledge of any activity and land use limitations filed or recorded in a registry under federal, tribal, state or local law.

4.1.3 Specialized Knowledge

The user indicated that as a representative of the Subject Property owner, the user has specialized knowledge regarding the Subject Property and nearby properties. Specifically, the Subject Property owner either owns, leases, and/or occupies much of the surrounding areas.

4.1.4 Valuation Reduction for Environmental Issues

The user indicated that the purchase price of the Subject Property reflects the fair market value of the Subject Property.

4.1.5 Commonly Known or Reasonably Ascertainable Information

The user provided numerous documents and information pertaining to the past uses, storage practices, spills, and environmental cleanups of the Subject Property. This information is discussed in Section 4.3.

4.1.6 Degree of Obviousness of Potential Contamination

With the exception of *de minimis* petroleum releases and any potential contamination related to the past operation of an unpermitted solid waste management facility, the user had no knowledge of any obvious indicators that point to the presence or likely presence of contamination at the property based on their knowledge and experience related to the Subject Property. An investigation of the potential impacts of the former solid waste management activities is currently on-going.

4.2 Other Information Pertaining to the Subject Property

The user had no additional concerns regarding the Subject Property or any adjoining properties.

4.2.1 Reason for Performing Phase I ESA

The Phase I ESA is being performed as part of the due diligence associated with the potential sale of the Subject Property.

4.2.2 Title Records

The user did not provide any title records for the Subject Property. Note that an environmental lien search was conducted for the Subject Property and is discussed in Section 5.4.

4.2.3 Owner, Property Manager, and Occupant Information

The Subject Property owner is A&B Properties, Inc. and the area is currently managed by Mr. Jason Kojia. Tel: 808-877-1645. The Subject Property is currently unoccupied.

4.3 Document Review

ETC reviewed several due diligence documents, environmental reports, and correspondence for the Subject Property. These documents were either provided by A&B Properties, Inc. (A&B), or reviewed at the Hawaii Department of Health (DOH) Hazard Evaluation and Emergency Response (HEER) Office and/or DOH Solid Waste Section (SWS).

4.3.1 Former Piggery and Solid Waste Management Activities

The Subject Property was most recently used as a piggery and an unpermitted solid waste management facility. The piggery operations span greater than 25 years, while the solid waste management activities were assumed to have started in 1995 when Mr. Larry Poffenroth took over piggery operations as part of an agreement with the former tenant. Mr. Poffenroth reportedly began conducting solid waste management activities without the knowledge or consent of the Subject Property landowner, A&B. From 1996 to 2007, A&B attempted to force Mr. Poffenroth to cease both the solid waste management activities and piggery operations and to vacate the site. Initially, Mr. Poffenroth's solid waste management activities were limited to scrap metal storage and processing; however, he subsequently expanded and began accepting green waste, construction/demolition waste, and other miscellaneous waste streams. In addition, large amounts of food waste were brought to the Subject Property as pig feed, which resulted in discarded empty food packaging materials being spread throughout much of the north portion of the Subject Property.

In October 1998, the Subject Property was inspected by the DOH SWS. As a result, on November 27, 1998, the DOH SWS issued Mr. Larry Poffenroth, operator of the Subject Property, a letter indicating several violations at the Subject Property. In addition, the letter ordered Mr. Poffenroth to cease and desist all salvaging operations, and stated that a formal Notice of Violation (NOV) would be issued if he did not respond within 15-days.

The DOH SWS reportedly issued a second letter, dated December 23, 1998 regarding the closure of the illegal solid waste management operations at the Subject Property. Since no response was received for the November and December 1998 letters, the DOH SWS issued a "warning letter" on May 5, 1999 indicating that if closure of the facility is not completed as requested, the DOH may institute an administrative or civil action for the current and prior solid waste violations. No apparent further action was taken or pursued by the DOH SWS from May 1999 to June 2005, when an anonymous complaint was reported to the DOH SWS that Mr. Poffenroth was accepting white goods and baling white goods and cars at the piggery.

As a result of the anonymous complaint, the DOH SWS conducted a site inspection of the Subject Property in September 2005. The inspection report indicated that an accumulation of solid waste (i.e. scrap metal, green waste, construction and demolition waste, etc.) was observed on the Subject Property. Subsequently, the DOH SWS issued Mr. Poffenroth a "Letter of Interest," dated September 19, 2005, requesting that removal and proper disposal of the solid waste on the Subject Property be completed within one year.

In late 2007, A&B was able to evict Mr. Poffenroth and all the remaining pigs were subsequently removed from the Subject Property in 2008. Immediately following the eviction, A&B began solid waste cleanup activities at the Subject Property; however, these efforts were hindered by Mr. Poffenroth's bankruptcy filing and associated legal issues. Following the bankruptcy court orders allowing cleanup of scrap metal from the Subject Property, A&B requested a solid waste management permit exemption for the cleanup activities. Subsequently, the DOH SWS granted the exemption and cleanup activities commenced. ETC understands that solid waste cleanup activities were completed in February 2011.

As part of the planned cleanup activities, A&B proposed to conduct a "comprehensive site assessment" of the Subject Property. Specifically, A&B contracted ETC to prepare a site investigation work plan to investigate whether the surface soils at the Subject Property have been impacted by the former solid waste management activities. On February 28, 2011, the DOH SWS issued a letter to A&B indicating that sampling activities described in the work plan may proceed. Site investigation activities were conducted concurrently with this Phase I ESA and will be reported under separate cover.

4.3.2 Former Puunene Naval Air Station

The Subject Property was reportedly part of the former Puunene Naval Air Station (also known as the Maui Airport Military Reservation). The Puunene Naval Air Station (PNAS) was built from 1936 to 1939 and was used by the U.S. Navy from 1940 to 1946. The PNAS was used as a naval air station that also supported U.S. Army operations. The PNAS facilities historically included underground fuel storage tanks, a transformer building, and a former landfill, none of which were located on the Subject Property. Review indicated that a "machine gun range" was formerly located on or partially on the southernmost portion of the Subject Property. "Earth revetments," presumably at the impact zone of the gun range, were formerly located near the current southern Subject Property boundary, and it is unclear whether these revetments were within or just outside of the Subject Property boundaries. The remaining areas of the former PNAS on the Subject Property appeared to be used primarily for quarters, office space, and barracks.

Although the Subject Property portion of the former PNAS has not been officially investigated, other areas of the PNAS are currently being investigated or have been investigated and/or remediated. PCB contamination associated with a "transformer building" located west of the Subject Property was investigated and/or remediated. Ms. Maria Reyes and Mr. Steven Mow of the DOH Hazard Evaluation and Emergency response Office indicated that PCB cleanup activities have been completed and the facility is listed as a "no further action" site. Note that PNAS was listed as a Formerly Used Defense Site (FUDS) by the contracted database. Furthermore, investigation and/or remediation of other areas of the PNAS is currently ongoing.

5.0 RECORDS REVIEW

5.1 Standard Environmental Record Sources

To obtain information concerning recognized environmental conditions at or near the Subject Property, ETC contracted Environmental Data Resources, Inc. (EDR) to conduct an environmental database search. EDR is a company that specializes in the review of public regulatory environmental databases. The regulatory agency report provided (Appendix IV) is based on an evaluation of the data collected and compiled by a contracted data research company. The report is a radius search report, which focuses on both the Subject Property and adjacent properties that may impact the Subject Property. Adjacent properties listed in governmental environmental records are identified within a specific search radius (Table 1). The search radius varies depending on the particular record being researched. The search is designed to meet the requirements of the current industry approach as described in ASTM Practice E1527-05. The information provided is assumed to be correct and complete, unless noted otherwise.

Table 1: ASTM Practice Environmental Record Sources and Recommended Search Distances

Environmental Database Sources	ASTM Practice Search Distances (miles)
Federal NPL Site List	1.0
Federal Designated NPL Site List	0.5
Federal CERCLIS List	0.5
Federal CERCLIS NFERAP Site List	0.5
Federal RCRA CORRACTS Facilities List	1.0
Federal RCRA non-CORRACTS TSD Facilities List	0.5
Federal RCRA Generation List	Subject Property and adjoining properties
Federal Institutional Control/Environmental Control Registries	Subject Property only
Federal ERNS List	Subject Property only
State-Equivalent NPL	1.0
State-Equivalent CERCLIS	0.5
State Landfill and/or Solid Waste Disposal Site Lists	0.5
State Leaking UST List	0.5
State Registered UST List	Subject Property and adjoining properties
State Institutional Control Registry	Subject Property only
State Voluntary Cleanup/Response (VCP/NRP) Sites	0.5
State Brownfield Sites	0.5

5.1.1 Federal NPL and Delisted NPL

The National Priorities List (NPL) is the Environmental Protection Agency's (EPA) database of uncontrolled or abandoned hazardous waste properties, which are considered to pose an immediate threat to human health and the environment. These properties are identified for priority remedial response actions under the Superfund Program. The Subject Property was not identified as a NPL site or a delisted NPL site. The database did not identify any delisted NPL sites within a 0.5-mile radius of the Subject Property. In addition, the database did not identify any NPL sites within a 1-mile radius of the Subject Property.

5.1.2 Federal CERCLIS and CERCLIS NFRAP

The Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) database contains information on various aspects of potentially uncontrolled or abandoned hazardous waste properties from initial screening and assessment phases to listing on the NPL. The Subject Property was not identified as an active CERCLIS site or a CERCLIS No Further Remedial Action Planned (NFRAP) site. The database did not identify any active CERCLIS sites or any CERCLIS NFRAP sites within a 0.5-mile radius of the Subject Property.

5.1.3 Federal RCRA CORRACTS

RCRA Corrective Action Sites (CORRACTS) database contains Resource Conservation Recovery Information System (RCRIS) sites with reported corrective action. The Subject Property was not identified as a CORRACTS facility. The database search did not identify any CORRACTS sites within a 1-mile radius of the Subject Property.

5.1.4 Federal RCRA (non-CORRACTS) TSD Facilities

The EPA's RCRA program identifies and tracks hazardous waste from the point of generation to the point of final disposal. The RCRA Treatment, Storage or Disposal (TSD) facility database compiles those reporting facilities that treat, store, or dispose of hazardous waste. The Subject Property was not identified as a RCRA TSD facility. The database search did not identify any RCRA TSD facilities within a 0.5-mile radius of the Subject Property.

5.1.5 Federal RCRA Generator

The RCRA Generator database is a compilation by EPA's RCRIS of regulated facilities that generate hazardous waste. The Subject Property was not identified as a RCRA Small Quantity Generator (SQG) or Large Quantity Generator (LQG). The database search did not identify any RCRA LQG or RCRA SQG sites located on potential adjoining/adjacent properties.

Although not identified by the contracted database, information provided by the landowner coupled with the available online RCRA database information revealed that Subject Property was identified as a RCRA Large Quantity Generator (LQG).

5.1.6 Federal Institutional Control/Engineering Control Registries

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. 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 a site. The EPA Institutional Control and Engineering Control registry maintains a listing of sites with Institutional or Engineering Controls in place. The Subject Property was not identified as having institutional or engineering controls in place.

5.1.7 Federal ERNS

The Emergency Response Notification System (ERNS) tracks the initial notification of reported oil and hazardous material spills. The database contains information regarding the discharge, release date, material, amount released, incident location and release action taken. The Subject Property was not identified as an ERNS facility.

5.1.8 State Equivalent NPL and CERCLIS

The CERCLIS List is a compilation of known or suspected uncontrolled or abandoned hazardous waste sites. These sites either have been investigated or are currently under investigation by the EPA for the release, or threatened release, of hazardous substances. Once a site is placed in CERCLIS, it may be subjected to several levels of review and evaluation and ultimately placed on the National Priorities List. The State of Hawaii does not have a formal "State Superfund" program; therefore, the State Hazardous Waste Sites (SHWS) are the State of Hawaii's equivalent to the federal EPA's CERCLIS database. Additionally, because this information is acquired from the Hawaii Department of Health (DOH) Hazard Evaluation and Emergency Response (HEER) Office, these sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup that use state funds (state equivalent superfund) are identified along with sites where cleanup is paid for by the potentially responsible parties. The Subject Property was not identified on the SHWS database. The database search did not identify any SHWS sites within a 1-mile radius of the Subject Property.

5.1.9 State Landfill and/or Solid Waste Disposal

The State of Hawaii has records of all facilities that have received a solid waste management permit, including solid waste landfills, transfer stations, and incinerators. The Subject Property was not identified as a Solid Waste Facility/Landfill (SWF/LF) facility. The database search did not identify any SWF/LF facilities within a 0.5-mile radius of the Subject Property.

5.1.10 State Leaking Underground Storage Tanks

The DOH Underground Storage Tank (UST) Program maintains a listing of all reported leaks and releases from USTs. The Subject Property was not identified as a leaking underground storage tank (LUST) facility. The database search did not identify any LUST facilities within a 0.5-mile radius of the Subject Property.

5.1.11 State Registered Underground Storage Tanks

The DOH Underground Storage Tank (UST) Program registration system tracks known and registered UST systems. The Subject Property was not identified as a UST facility. The database search did not identify any UST facilities located on potential adjacent/adjoining properties.

5.1.12 State Institutional Control Registry

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 a site. The State Institutional Control listing includes Voluntary Response Program and Brownfields sites with institutional controls in place. The Subject Property was not identified as having institutional controls in place.

5.1.13 State Voluntary Cleanup/Response Sites

The Hawai'i Voluntary Response Program (VRP) was created on July 7, 1997 by amendments made to Hawai'i's Environmental Response Law (ERL). 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. The VRP facilitates the cleanup process and, in certain situations, provides relief from the strict liability provisions of the Federal CERCLA and Hawai'i ERL. The Subject Property was not identified as a VRP site. The database search did not identify any VRP sites located within a 0.5-mile radius of the Subject Property.

5.1.14 State Brownfields

A Brownfields site is land which the expansion, redevelopment, or reuse of may be complicated by the presence or potential presence of a hazardous substance, pollutant or contaminant. The Subject Property was not identified as a Brownfields site. The database search did not identify any Brownfields sites located within a 0.5-mile radius of the Subject Property.

5.1.15 Unmappable/Orphan Sites

Three (3) unmappable sites were identified in the Orphan Summary of the EDR Report. Unmappable sites are not plotted due to poor or inadequate address information. Due to the inaccurate or incomplete information provided by the respective agency, these sites cannot be plotted with confidence. Review of the addresses and site names coupled with ETC site reconnaissance findings indicated that neither the Subject Property nor any adjacent or nearby properties were identified in the Orphan Summary of the database report.

5.2 Additional Environmental Record Sources

The EDR database also included a number of other regulatory databases that are not specified by the ASTM Practice. The EDR database identified one (1) Formerly Used Defense Site (FUDS) located on the Subject Property and adjoining properties.

In addition, the database search did not identify the Subject Property in any of the following databases.

Proposed NPL – Proposed National Priority List Sites

NPL LIENS – Federal Superfund Liens

NPL RECOVERY – Federal Superfund Liens

LIENS 2 – CERCLA Lien Information

DOD – Department of Defense Sites

HMIRS – Hazardous Materials Information Reporting System

US Brownfields – A Listing of Brownfields Sites

CONSENT – Superfund (CERCLA) Consent Decrees

ROD – Records of Decision

UMTRA – Uranium Mill Tailings Sites

ODI – Open Dump Inventory

TRIS – Toxic Chemical Release Inventory System

TSCA – Toxic Substances Control Act

FTTS – FIFRA/TSCA Tracking System

SSTS – Section 7 Tracking Systems

ICIS – Integrated Compliance Information System

LUCIS – Land Use Control Information System

CDL – Clandestine Drug Labs

RADINFO – Radiation Information Database

PADS – PCB Activity Database System

PCB Transformer – PCB Transformer Registration Database
 MLTS – Material Licensing Tracking System
 MINES – Mines Master Index File
 FINDS – Facility Index System / Facility Registry System
 RAATS – RCRA Administrative Action Tracking System
 SPILLS – Release Notifications
 UIC – Underground Injection Well Listing
 DRYCLEANERS – Permitted Drycleaner Facility Listing
 AIRS – List of Permitted Facilities
 Manufactured Gas Plants – EDR Proprietary Manufactured Gas Plants

5.3 Historical Use Information on the Subject and Adjoining Properties

Historical uses of the Subject Property and adjoining properties were investigated through the review of documentation available from public land records and State of Hawaii archived information. In addition, available aerial photographs, plat maps, Sanborn maps, and building permits were reviewed.

5.3.1 Aerial Photograph Review

Aerial photographs from the EDR Aerial Photo Decade Package were reviewed. A total of three aerial photographs were found that included the Subject Property. These photographs were dated 1954, 1976, and 1992.

The Subject Property and adjacent areas were not clearly visible in the 1954 aerial photograph. Review indicated that the Subject Property and adjacent properties appeared to be improved with numerous structures. In addition, an apparent air strip or runway was visible west of the Subject Property. The Subject Property and adjacent properties were not clearly visible in the 1976 aerial photograph. Although site structures were not clearly visible, in general, the 1976 aerial photograph appeared similar to the 1954 aerial photograph with no significant changes. Review of the 1992 aerial photograph indicated that the Subject Property appeared developed with a few structures on the south and northwest portions. In addition, a suspect excavated area was observed along the south border of the Subject Property. This area appears to correspond to the former "machine gun range," which is suspected to have been located along the south border of the Subject Property. The remaining areas of the Subject Property appeared to be covered with vegetation.

5.3.2 Fire Insurance Maps

ETC contracted EDR to conduct a search of Sanborn fire insurance maps for the Subject Property. The search included an extensive review of the Library of Congress and University Publications of America map collections as well as the EDR Private Collection. EDR reported that there is no Sanborn map coverage for the Subject Property address.

5.3.3 Property Tax Files and Land Title Records

ETC conducted a limited title search of the Subject Property online at the County of Maui Property Tax office website. ETC is not a professional title search company and does not warrant the completeness or accuracy of the information provided, but considers the data useful in screening the Subject Property for environmentally suspect owners or lessees. The Subject Property is currently owned by A&B – Hawaii, Inc. Current or former lessees of the Subject Property include Maui Factors Inc., Rey Cel Broadcasting Inc., and LESEA Broadcasting Corporation.

5.3.4 Building Permit Records

ETC reviewed available building permits for the Subject Property recorded by County of Maui. Property records indicated that two "frame utility shed" structures, one "accessory dwelling" structure and three "metal warehouse" structures were built on the Subject Property in the 1960s. In addition, a building permit was issued to Valley Isle Broadcasting, Ltd. for the construction of a transmitter building on an adjacent property.

5.4 Environmental LienSearch

To obtain information concerning environmental liens and other activity use limitations (AULs), ETC contracted EDR to conduct an environmental lien search and AULs search. The EDR Environmental LienSearch Report provided (Appendix III) is based on an evaluation of public records of the Hawaii State Bureau of Conveyances. The search is designed to meet the requirements of the current industry approach as described in ASTM Practice E1527-05. The information provided is assumed to be correct and complete, unless noted otherwise. Review of the EDR Environmental LienSearch Report indicated that the no environmental liens or AULs were found in connection with the Subject Property.

6.0 SITE RECONNAISSANCE

ETC performed a site reconnaissance on February 17, 2011 and March 1, 2011 in order to complete a visual survey to identify the use and/or storage of hazardous materials.

6.1 Methodology and Limiting Conditions

ETC personnel performed the site reconnaissance by systematically inspecting all accessible areas of the Subject Property. With the exception of the interior areas of the radio tower structure and the heavily vegetated areas of the Subject Property, no areas of the Subject Property were restricted from ETC's visual observation.

6.2 General Site Setting

The Subject Property primarily consisted of vacant land. A small shed-like structure and radio tower were observed on the northwest portion of the Subject Property. This structure was inaccessible at the time of ETC's site reconnaissance activities, however, no apparent releases or evidence of past releases were observed in the vicinity of the radio tower area. No other visible structures were observed on the Subject Property; however, several apparent building foundations in the form of concrete slabs were observed on the Subject Property.

ETC personnel also observed a non-potable water well located on the central portion of the Subject Property. A map of the Subject Property and the location of this well is included in Appendix I, Figure 2. Photographic documentation of ETC's site reconnaissance is included in Appendix II.

6.3 Observations

Visual inspection of the exterior areas of the Subject Property indicated the groundcover primarily consisted of bare soil, interior dirt and asphalt paved roads and moderate to heavy vegetation. The southernmost portion of the Subject Property appeared to be used for current sugarcane cultivation activities. ETC observed limited quantities of cathode ray tubes (CRTs), batteries, and other wastes within a metal storage bin located on the northwest portion of the Subject Property. According to the landowner, these materials are being prepared for shipment and proper disposal. The bin is situated on an apparent concrete slab. No releases were observed in the vicinity of this bin. In addition, limited quantities of apparent metal debris were observed on the Subject Property. ETC understands that both the metal debris and metal bin are planned for removal and disposal or recycling.

ETC observed a radio tower and appurtenant structures (i.e. building and shipping container) located on the northwest portion of the Subject Property. Although the interior areas of the radio tower structure and shipping container were inaccessible, no apparent releases or evidence of past releases were observed in the vicinity of this area.

ETC observed several apparent sewer manhole covers indicating that a sewer system infrastructure may still be present on the Subject Property. These manholes are likely remnants associated with the former Puunene Naval Air Station.

No floor drains or sumps were observed on the Subject Property. A visual inspection for the presence of USTs and ASTs was also conducted. No evidence of USTs was observed on the Subject Property.

6.4 Dielectric Fluid Containing Equipment

A visual inspection for hydraulic and electrical equipment or electrical components that use fluid that may contain PCBs was conducted. No suspect PCB-containing equipment was observed on the Subject Property.

7.0 INTERVIEWS

The objective of the interviews is to obtain information from past and present owners, operators, and occupants of the Subject Property to identify potential RECs in connection with the Subject Property.

7.1 Interview with Owner

Mr. Sean O'Keefe, A&B Properties, Inc.

Mr. O'Keefe provided ETC with the following information:

- The Subject Property was initially used as part of the Puunene Naval Air Station and later used as a plantation camp and for commercial sugarcane cultivation. The Subject Property was later used as a pig farm the 1960s. In addition to the pig farm activities beginning in the 1960's, a portion of the Subject Property was used for unpermitted solid waste management activities since approximately 1995.
- Aerial photographs indicate that the southern portion of the Subject Property appears to have been excavated. This excavated area corresponds to the approximate location of the former "machine gun range" associated with the PNAS. In addition, in or around 2004, Hawaiian Commercial & Sugar (HC&S) reportedly imported material onto this portion of the Subject Property to fill this "low spot" prior to resuming farming activities.
- Potable water on the Subject Property is provided by County of Maui. In addition, there is a non-potable water well located on the Subject Property.
- The recent structures were served by cesspools, which have been filled. In addition, during the military usage of the Subject Property there was a sewer system present, which apparently discharged into large septic tanks. Note that the sewer system piping and/or remnants are likely still in-place on the Subject Property.
- There are no floor drains or sumps on the Subject Property.
- There are no transformers located on the Subject Property. In addition, all electrical services provided by Maui Electric Company have been terminated.
- There are no current or historic USTs on the Subject Property. There were several ASTs and mobile tank trailers on the Subject Property, some of which were used to store petroleum products by Mr. Poffenroth. These items were subsequently properly emptied/cleaned and disposed.
- Various pesticides are/were used as part of the sugarcane cultivation activities and other agricultural operations. In addition, fertilizers are/were used as part of the sugarcane cultivation activities and other agricultural operations.
- Fluorescent light bulbs and ballasts were removed from the former structures and disposed.

- Asbestos was present in the former Subject Property buildings. Asbestos is also present in the water system piping which formerly serviced the former military structures. This water piping is currently present on the Subject Property.
- Paints and waste oil were generated and/or stored on the Subject Property by the former tenant. In addition, scrap metal, green waste, food waste, construction and demolition waste, used light bulbs, used CRTs, miscellaneous hazardous wastes, etc. were generated or stored by the former tenant or were generated as part of the site cleanup.
- Rubbish associated with the feeding of the pigs was indiscriminately disposed on the surface around the Subject Property and in some cases was partially buried under rock piles. All areas of suspect buried waste were excavated and the waste properly removed and disposed.
- Dead pigs are known to have been burned and buried on the Subject Property.
- There are no current or past gas stations on the Subject Property; however, such facilities may have existed on the adjacent military base.
- The former tenant operated a maintenance shop on the Subject Property. Activities included repairs and maintenance of vehicles and heavy equipment.
- The Subject Property and adjoining properties are not currently used as motor repair facilities, printing facilities, dry cleaners, photo developing, laboratories, junkyard, landfill activity, waste TSDF, or recycling facilities.
- A written release report was filed for minor petroleum releases that had not been addressed by the former tenant and after the former tenant was evicted from the Subject Property. The Subject Property was not listed on the DOH HEER Office's currently available release and site lists. All visible petroleum releases have been addressed.
- During the recent cleanup activities of the Subject Property, various waste streams (i.e. waste batteries, paints, etc.) were removed and disposed. There are currently one drum of broken automotive batteries, one drum of paint waste, and numerous used CRTs in storage pending disposal.
- Waste lagoons were operated as part of the former piggery operations. These ponds received animal waste.
- The Subject Property does not discharge wastewater on or adjacent to the site other than stormwater.
- There are no known environmental liens or governmental notifications relating to past or recurrent violations of environmental laws with respect to the Subject Property.

8.0 FINDINGS AND OPINIONS

8.1 Site Description

No significant findings to indicate suspect RECs, historical RECs, or *de minimis* conditions were identified.

8.2 User Provided Information and Document Review

Review of user and landowner provided information and other publicly accessible documents indicated that the Subject Property formerly operated as an unpermitted solid waste management facility. Subsequent cleanup activities were completed and are pending clearance from the DOH SWS. In addition, an investigation to assess whether the former solid waste management activities have impacted the surface soil at the Subject Property is currently ongoing and will be reported under separate cover. Based on this information, ETC cannot dismiss the fact that Subject Property soils may have been impacted by the former solid waste management activities. As such this finding is considered a REC.

The landowner also indicated that the Subject Property was formerly used for the commercial cultivation of sugarcane. In addition, site reconnaissance activities indicated that a portion of the Subject Property is still used for sugarcane cultivation. Activities commonly associated with commercial sugar cultivation include the use and application of fertilizers, pesticides, and/or herbicides. As such, this finding is considered a historical REC. Based on discussions with DOH HEER Office personnel, studies of former agricultural lands in Hawaii indicate that high levels of agricultural contaminants are not typically found in former field areas. Note that no known pesticide spills have been reported on the Subject Property. In addition, A&B confirmed that there have been no pesticide spills on the Subject Property and that pesticides are applied in accordance with the specific pesticide label and applicable regulations. In addition, all pesticides were mixed at a centralized pesticide mixing site located off-site. Based on ETC's findings this historical REC does not appear to pose an immediate threat to human health or the environment and would not likely be the subject of an enforcement action, therefore, ETC believes that this historical REC is considered a *de minimis* condition.

Historic maps and documents provided by the landowner indicated that the Subject Property was part of the former Puunene Naval Air Station (PNAS). Review indicated that a "machine gun range" was formerly located on or partially on the southernmost portion of the Subject Property. "Earth revetments," presumably at the impact zone of the gun range, were formerly located near the current southern property line, and it is unclear whether these revetments were within or just outside of the Subject Property boundaries. The remaining areas of the former PNAS on the Subject Property appeared to be used primarily for quarters, office space, and barracks. Past environmental investigations and cleanups have been conducted on areas of the base west of the Subject Property. Although no evidence of past investigations of the gunnery range was identified, residual heavy metals are common contaminants associated with former military firing ranges. In addition, DOH HEER Office personnel indicated that lead contamination is commonly found within the "earthen berms" (i.e. revetments) associated with gun ranges, and contaminants are not typically found in other areas of gun ranges.

Aerial photograph review also indicated that a suspect excavated area was observed along the south border of the Subject Property, which corresponds to the approximate location of the former "machine gun range." The suspect excavation also corresponds to information provided by the landowner indicating that material was imported onto the southern portion of the Subject Property in or around 2004 as fill prior to resuming farming of this area.

Based on ETC's review, this finding is considered a historical recognized environmental condition (REC). While the "earth revetments," are no longer present and there is evidence that soil in the presumed gunnery range impact zone has been excavated at some time in the past, based on information provided by the landowner coupled with ETC's telephone correspondence with DOH HEER Office personnel, ETC cannot dismiss the potential presence of residual contamination from this historical REC and as such the former "machine gun range" is considered a current REC for the Subject Property.

No other significant findings to indicate suspect RECs, historical RECs, or *de minimis* conditions were identified.

8.3 Records Review

8.3.1 Standard Environmental Record Sources

Federal NPL and Delisted NPL

No significant findings to indicate suspect RECs, historical RECs, or *de minimis* conditions were identified.

Federal CERCLIS and CERCLIS NFRAP

No significant findings to indicate suspect RECs, historical RECs, or *de minimis* conditions were identified.

Federal RCRA CORRACTS

No significant findings to indicate suspect RECs, historical RECs, or *de minimis* conditions were identified.

Federal RCRA (non-CORRACTS) TSD Facilities

No significant findings to indicate suspect RECs, historical RECs, or *de minimis* conditions were identified.

Federal RCRA Generator

Although not identified by the contracted database, information provided by the landowner coupled with the available online RCRA database information revealed that Subject Property was identified as a RCRA Large Quantity Generator (LQG). Specifically, the "Former Poffenroth Piggery" is listed as a RCRA LQG with the RCRA Facility ID: HIR000138545. No apparent RCRA violations were noted. In addition, with the exception of the 'hazmat' bin pending disposal, site reconnaissance findings indicated no other apparent hazardous waste storage and/or generation on the Subject Property. As such, so significant findings to indicate suspect RECs, historical RECs, or *de minimis* conditions were identified.

Federal Institutional Control/Engineering Control Registries

No significant findings to indicate suspect RECs, historical RECs, or *de minimis* conditions were identified.

Federal ERNS

No significant findings to indicate suspect RECs, historical RECs, or *de minimis* conditions were identified.

State Equivalent NPL and CERCLIS

No significant findings to indicate suspect RECs, historical RECs, or *de minimis* conditions were identified.

State Landfill and/or Solid Waste Disposal

No significant findings to indicate suspect RECs, historical RECs, or *de minimis* conditions were identified.

State Leaking Underground Storage Tanks

No significant findings to indicate suspect RECs, historical RECs, or *de minimis* conditions were identified.

State Registered Underground Storage Tanks

No significant findings to indicate suspect RECs, historical RECs, or *de minimis* conditions were identified.

State Institutional Control Registry

No significant findings to indicate suspect RECs, historical RECs, or *de minimis* conditions were identified.

State Voluntary Cleanup/Response Sites

No significant findings to indicate suspect RECs, historical RECs, or *de minimis* conditions were identified.

State Brownfields

No significant findings to indicate suspect RECs, historical RECs, or *de minimis* conditions were identified.

Unmappable/Orphan Sites

No significant findings to indicate suspect RECs, historical RECs, or *de minimis* conditions were identified.

8.3.2 Additional Environmental Record Sources

Database review confirmed that Subject Property was formerly part of the PNAS, which was identified as a FUDS by the contracted database. The PNAS was discussed as part of Section 4.3.2 and 8.2 and therefore will not be repeated here. No other significant findings to indicate suspect RECs, historical RECs, or *de minimis* conditions were identified.

8.3.3 Historical Use Information on the Subject and Adjoining Properties

Aerial Photograph Review

Aerial photograph review indicated that the Subject Property was fully developed and may have been used as an air strip prior to 1954. The PNAS was discussed as part of Sections 4.3.2 and 8.2 and therefore will not be repeated here. No other significant findings to indicate suspect RECs, historical RECs, or *de minimis* conditions were identified.

Fire Insurance Maps

No significant findings to indicate suspect RECs, historical RECs, or *de minimis* conditions were identified.

Property Tax Files and Land Title Records

No significant findings to indicate suspect RECs, historical RECs, or *de minimis* conditions were identified.

Building Permits

No significant findings to indicate suspect RECs, historical RECs, or *de minimis* conditions were identified.

8.4 Site Reconnaissance

Site reconnaissance activities confirmed that solid waste cleanup activities have been completed with the exception of a limited quantity of waste. ETC understands that the remaining waste (i.e. batteries, paint, CRTs, etc.) is scheduled for removal and disposal. The former solid waste activities associated with the Subject Property was discussed as part of Section 4.3.1 and 8.2 and therefore will not be repeated here. The former usage of the Subject Property for sugarcane cultivation was discussed as part of Section 8.2 and therefore will not be repeated here. No other significant findings to indicate suspect RECs, historical RECs, or *de minimis* conditions were identified.

8.5 Interviews

Interview findings indicate that a written release report was filed for the Subject Property for minor petroleum releases that had not been addressed by the former tenant. These releases were discovered after the former tenant was evicted from the Subject Property. The Subject Property was not listed on the DOH HEER Office's currently available release and site lists. Although not listed, the landowner confirmed that all visible petroleum releases have been addressed. In addition, no evidence of gross petroleum impacts were observed by ETC personnel during site reconnaissance activities. Based on this information, these minor petroleum releases are not considered an REC for the Subject Property.

The former uses of the Subject Property for sugar cultivation and an unpermitted solid waste management facility were discussed as part of Section 8.2 and therefore will not be repeated here. The presence of former PNAS facility on the Subject Property was discussed as part of Sections 4.3.2 and 8.2 and therefore will not be repeated here. No other significant findings to indicate suspect RECs, historical RECs, or *de minimis* conditions were identified.

9.0 DATA GAPS

Data gaps, which are defined as the lack of or inability to obtain information required for this Phase I ESA despite good faith efforts by the environmental professional to gather such information were identified during this Phase I ESA. ETC identified the following data gaps:

- Historical records sources within five year intervals were not available for review. However, since all available historical records were reviewed (i.e. aerial photos, Sanborn Maps, etc.), ETC concludes that this "data failure" does not represent a significant data gap.
- ETC did not inspect all accessible areas of the Subject Property. Due to safety concerns, ETC's site reconnaissance activities excluded the densely vegetated areas of the Subject Property. In addition, structures associated with the radio tower area were also inaccessible at the time of ETC's site reconnaissance activities. These inaccessible areas were not expected to significantly impact the Subject Property. As such, this data gap is not considered significant.

10.0 CONCLUSIONS

We have performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E1527-05 of (2) 3-8-008: Parcel 19 (portion) located off of South Fire Break Road, Kihei, Maui, Hawaii (the Subject Property). Any exceptions to, or deletions from, the ASTM Practice E1527-05 are described in Section 11.0 of this report. This assessment has revealed no evidence of recognized environmental conditions in connection with the Subject Property except for the following:

- Potential presence of residual contaminants associated with former solid waste management activities on the Subject Property.
- Potential presence of residual contamination associated with historic usage of the southernmost portion of the Subject Property as a "machine gun firing" range

11.0 DEVIATIONS AND ADDITIONAL SERVICES

11.1 Deviations

No client imposed constraints or deletions were requested. As such, there were no deviations and/or deletions from the ASTM Practice E1527-05 upon completion of this Phase I ESA.

11.2 Additional Services

11.2.1 Limited Surface Soil Investigation

At the request of the A&B, ETC concurrently conducted a "Limited Surface Soil Investigation" on the Subject Property. The results of these investigative activities were conducted concurrently and will be reported under separate cover.

11.2.2 Solid Waste Clearance and Environmental Compliance

Solid waste activities and regulatory compliance issues pertaining to solid waste and hazardous substances are considered non-scope considerations for the Phase I ESA. As such, ETC was contracted by the landowner to complete a visual inspection of the Subject Property to determine whether such violations associated with hazardous substances and the former unpermitted solid waste management activities previously discussed in Section 4.3 have been adequately addressed.

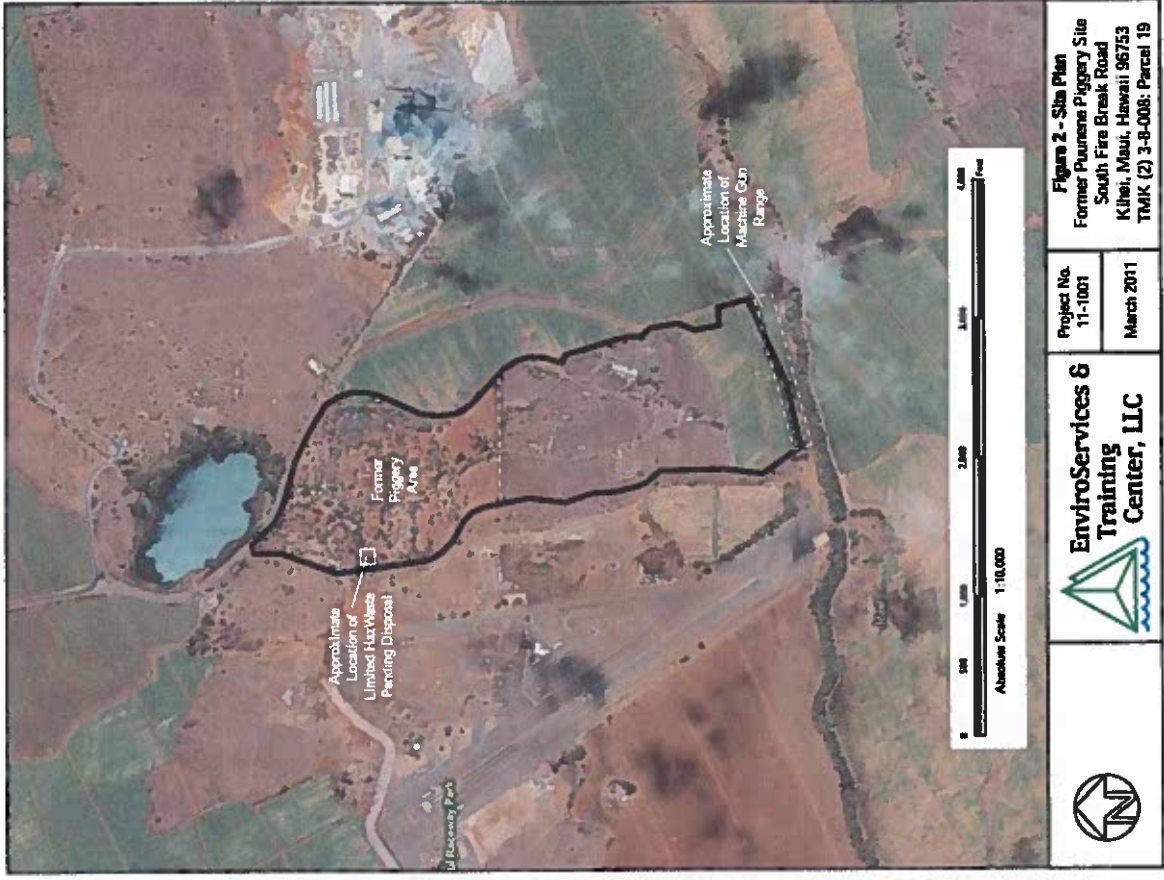
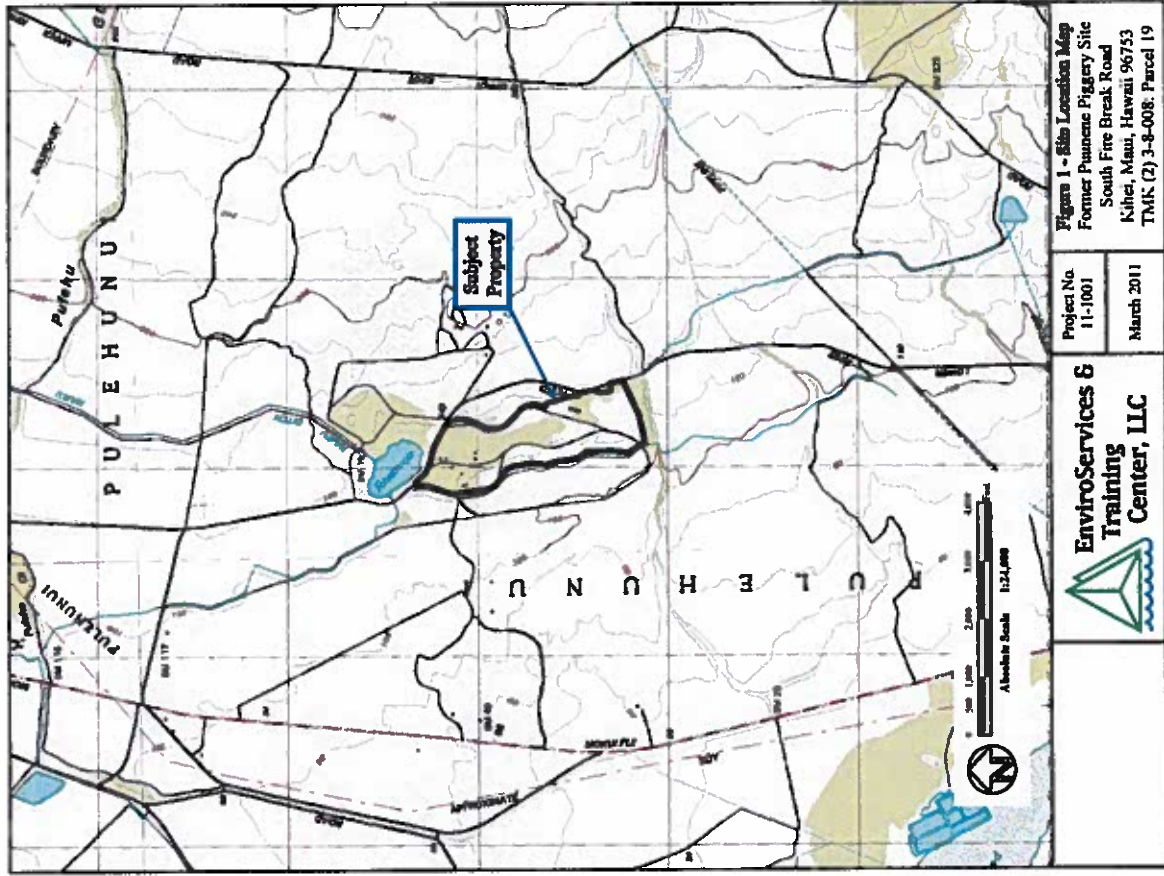
Pursuant to the landowner's request, the following opinions are based on ETC's visual inspection of the Subject Property conducted on February 18, 2011. Correspondence with Mr. Todd Nichols of the DOH SWS indicated that site clearance would be issued provided that the remaining solid waste and "plastic flagging material" had been removed from the Subject Property. During the visual inspection, no residual "plastic flagging" or substantial quantities of solid waste were observed on the Subject Property. In addition, with the exception of elevated total petroleum hydrocarbons as oil (TPH-O) and total lead concentrations identified in the surface soils at the Subject Property, no known violations or issues pertaining to hazardous substances were observed on the Subject Property.

Note that concrete foundations, slabs, and miscellaneous fencing, animal troughs, etc. were observed throughout the Subject Property. However, these items are not in a condition to be considered solid waste. In addition, apparent exploratory solid waste excavations were noted on the north portion of the Subject Property. Based on ETC's inspection of these excavations, no residual buried solid waste appears to be present in these excavated areas. Based on these visual findings, no additional solid waste cleanup appears necessary at this time. In addition, all formerly documented solid waste appears to have been adequately removed from the Subject Property. Furthermore, although the DOH has not issued a formal site clearance for the Subject Property, solid waste cleanup activities appear to have been completed and the Subject Property does not appear to be in violation of any applicable solid waste regulations. Except as noted above, following inspection of the Subject Property, the Subject Property, to the knowledge of ETC, was not then in violation of applicable law pertaining to hazardous substances.

12.0 REFERENCES

- ASTM International. Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, Designation E1527-05.
- Environmental Data Resources, Inc., January 24, 2011. *The EDR Radius Map with GeoCheck*. Report Inquiry No. 2972944.2s.
- Environmental Data Resources, Inc., January 24, 2011. *Certified Sunborn@Map Report*. Order No. 2972944.3.
- Environmental Data Resources, Inc., January 24, 2011. *EDR Historical Topographic Map Report*. Order No. 2972944.4.
- Environmental Data Resources, Inc., January 25, 2011. *The EDR Aerial Photo Decade Package*. Order No. 2972944.5.
- Environmental Data Resources, Inc., January 25, 2011. *The EDR Environmental LienSearch Report*. Order No. 2972944.7.
- Macdonald, G.A., A.T. Abbot, and F.L. Peterson. 1983. *Volcanoes in the Sea*. University of Hawaii Press.
- Maui County Property Tax Office. Ownership and Building Permit records.
- Mink, John F. and Stephen L. Lau. March 1990. *Aquifer Identification and Classification for Maui: Groundwater Protection Strategy for Hawaii*.
- State of Hawaii Department of Health. Solid and Hazardous Waste Branch records.
- State of Hawaii Taxation Map Bureau. Tax Map Key (2) 3-8-008: Parcel 019.
- U.S. Department of Agriculture Soil Conservation Service. 1972. *Soil Survey of the Islands of Kauai, Oahu, Maui, Molokai, and Lanai, State of Hawaii*.
- U.S. Department of Interior Geological Survey. 1992. Puu O Kali, Hawaii Quadrangle, 7.5 Minute Series (Topographic Map).

APPENDIX I FIGURES



APPENDIX II
PHOTOGRAPHIC DOCUMENTATION



Photograph 1: View of 'hazmat' bin containing limited quantities of waste (i.e. CRTs, batteries, etc.) located on the northwest portion of the Subject Property.

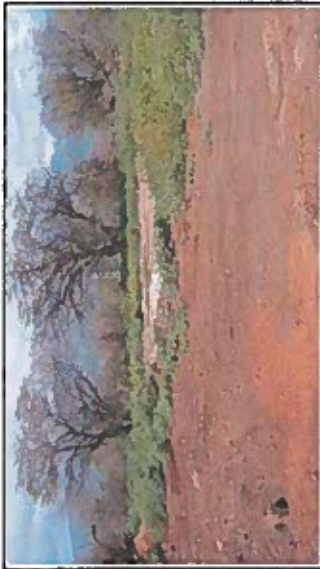


Photograph 2: View of the northwest portion of the Subject Property.



Photograph 3: View of concrete pad near the north entrance of the Subject Property.

 EnviroServices & Training Center, LLC	Project No. 11-1021	Photographs Documentation Former Puunene Piggery Site South Fire Break Road Kihui, Maui, Hawaii 96753 TMK (2) 3-4-000: Parcel 19
	March 2011	



Photograph 4: View of the concrete pad located near the north entrance of the Subject Property.



Photograph 5: View of the north portion of the Subject Property near the north front entrances.



Photograph 6: View of the northwest portion of the Subject Property.



Photograph 7: View of the northeast portion of the Subject Property.



Photograph 8: View of the northeast portion of the Subject Property.



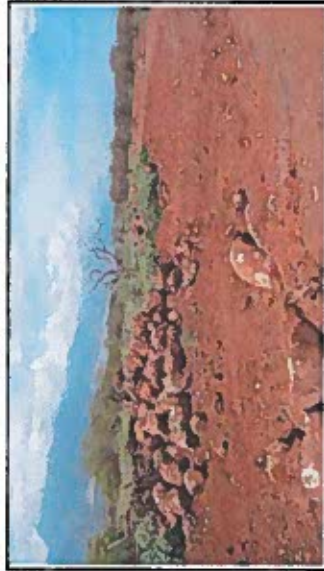
Photograph 9: View of remnant fencing and pig troughs located on the northeast portion of the Subject Property.

 EnviroServices & Training Center, LLC	Project No. 11-1001	Photographic Documentation Former Purnell Piggy Site South Pine Break Road Kilauea, Hawaii 96753 TMK (2) 3-B-008: Parcel 19
	March 2011	

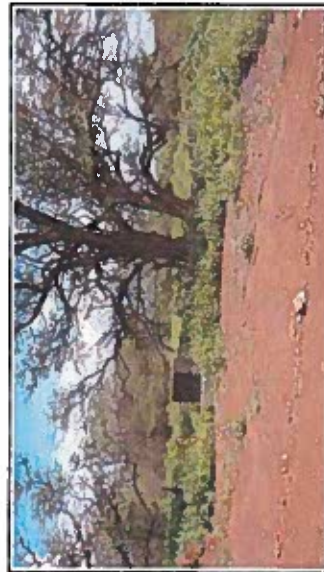
 EnviroServices & Training Center, LLC	Project No. 11-1001	Photographic Documentation Former Purnell Piggy Site South Pine Break Road Kilauea, Hawaii 96753 TMK (2) 3-B-008: Parcel 19
	March 2011	



Photograph 10: View of the central portion of the Subject Property.



Photograph 11: View of the central portion of the Subject Property.



Photograph 12: View of the non-potable groundwater well located on the central portion of the Subject Property.



Photograph 13: View of the central portion of the Subject Property.



Photograph 14: View of the central portion of the Subject Property.



Photograph 15: View of the central portion of the Subject Property.



EnviroServices &
Training
Center, LLC

Project No. 11-1001

March 2011

Photographic Documentation
Former Puuene Piggery Site
South Fire Break Road
Kihel, Maui, Hawaii 96753
TMK (2) 3-3-000: Parcel 19

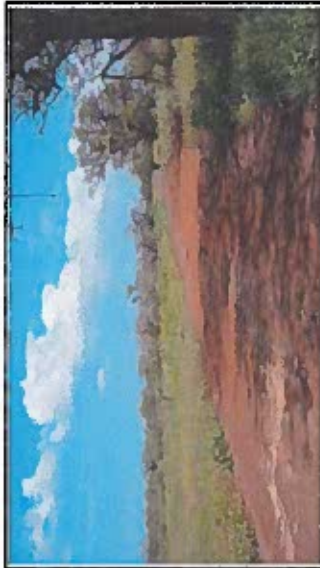
Project No. 11-1001

March 2011

Photographic Documentation
Former Puuene Piggery Site
South Fire Break Road
Kihel, Maui, Hawaii 96753
TMK (2) 3-3-000: Parcel 19



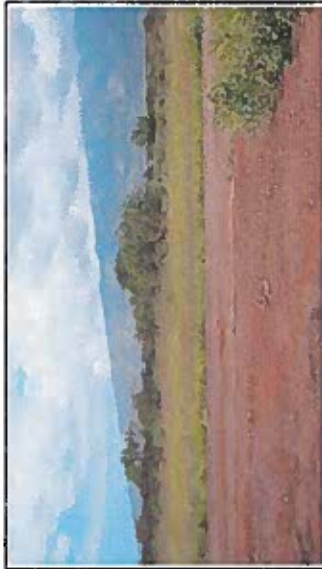
Photograph 16: View of road located on the central portion of the Subject Property.



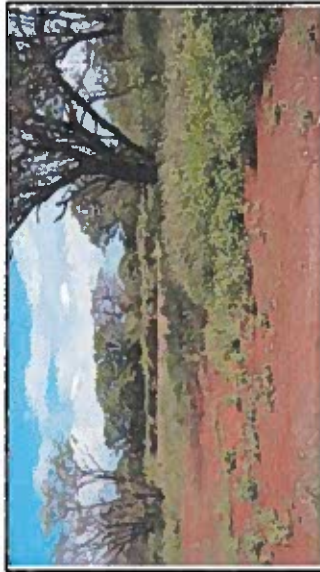
Photograph 17: View of the south portion of the Subject Property.



Photograph 18: View of the south portion of the Subject Property.



Photograph 19: View of the south portion of the Subject Property.

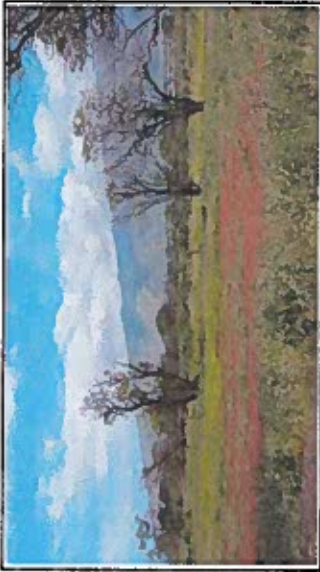


Photograph 20: View of concrete slab located on the southeast portion of the Subject Property.



Photograph 21: View of the south portion of the Subject Property.

	EnviroServices & Training Center, LLC	Project No. 11-1001	Photographic Documentation Former Puuwa Piggery Site South Fire Break Road Kihui, Maui, Hawaii 96753 TMK (2) 3-B-008: Parcel 19
		March 2011	



Photograph 22: View of the southwest portion of the Subject Property.



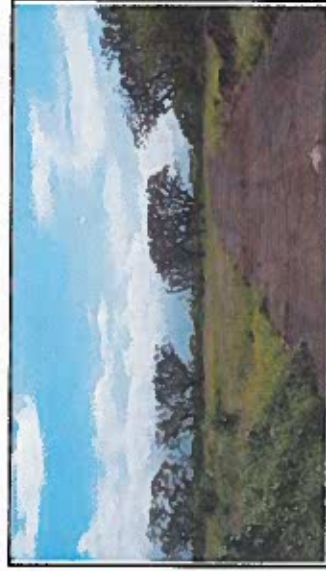
Photograph 23: View of the southwest portion of the Subject Property.



Photograph 24: View of the southwest portion of the Subject Property.



Photograph 25: View of the south portion of the Subject Property.



Photograph 26: View of the south portion of the Subject Property.



Photograph 27: View of the southernmost portion of the Subject Property.



EnviroServices &
Training
Center, LLC

Project No. 11-1001

March 2011

Photographic Documentation
Former Puunene Piggy Site
South Fire Break Road
Kihel, Maui, Hawaii 96753
TMK (2) 3-4-006: Parcel 19



EnviroServices &
Training
Center, LLC

Project No. 11-1001

March 2011

Photographic Documentation
Former Puunene Piggy Site
South Fire Break Road
Kihel, Maui, Hawaii 96753
TMK (2) 3-4-006: Parcel 19

Former Puunene Piggery Site
South Fire Break Road
Kihei, HI 96753

Inquiry Number: 2972944.3
January 24, 2011

APPENDIX III
HISTORICAL RESEARCH DOCUMENTATION

Certified Sanborn® Map Report

440 Wheelers Farm Road
Middletown, CT 06451
800.352.0050
www.edrnet.com



1/24/91



Inquiry Number: 2972944.4
January 24, 2011

Cambridge Library Search results
 Cambridge 0 5430-4084-9ETB7

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

The Standard Library Since 1854

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

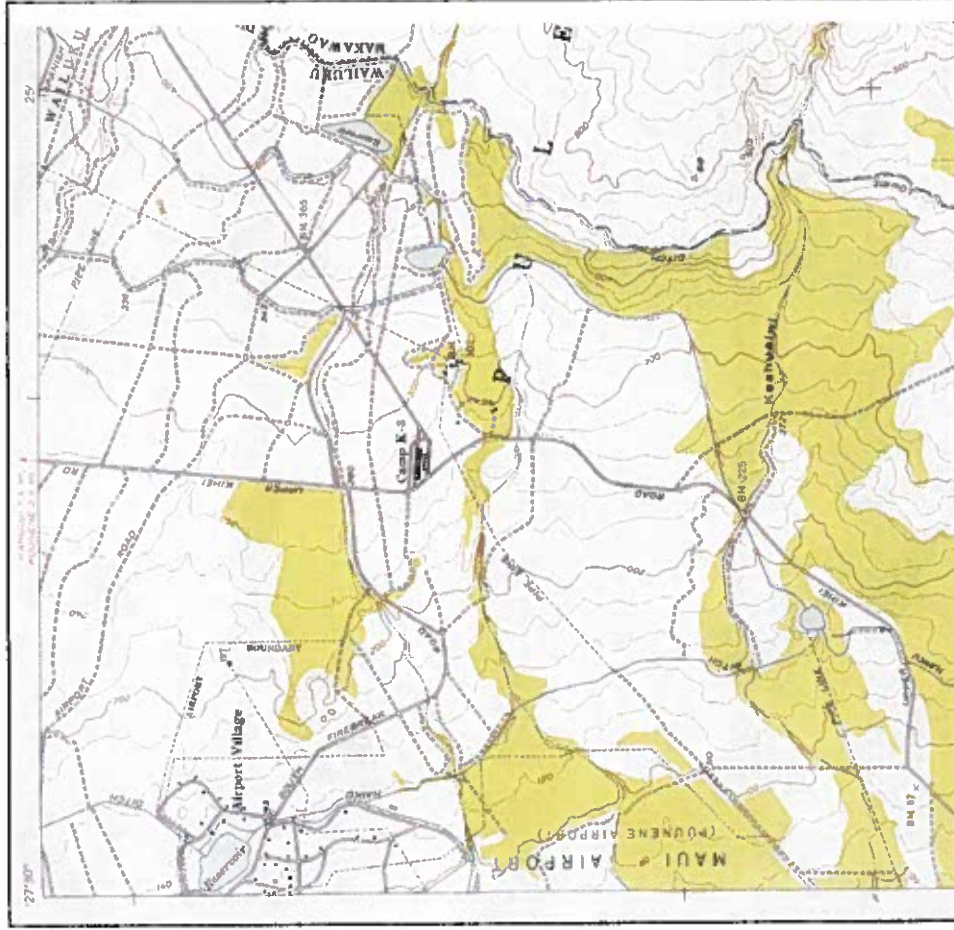
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Historical Topographic Map



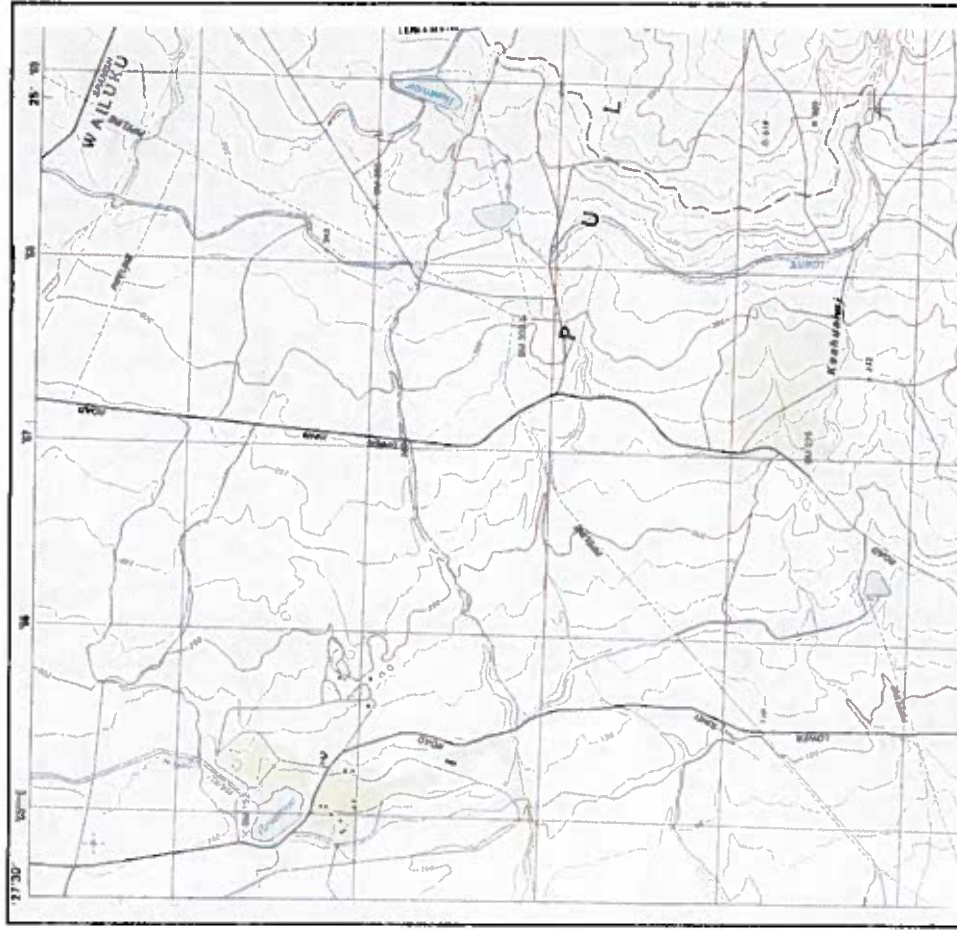
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Historical Topographic Map



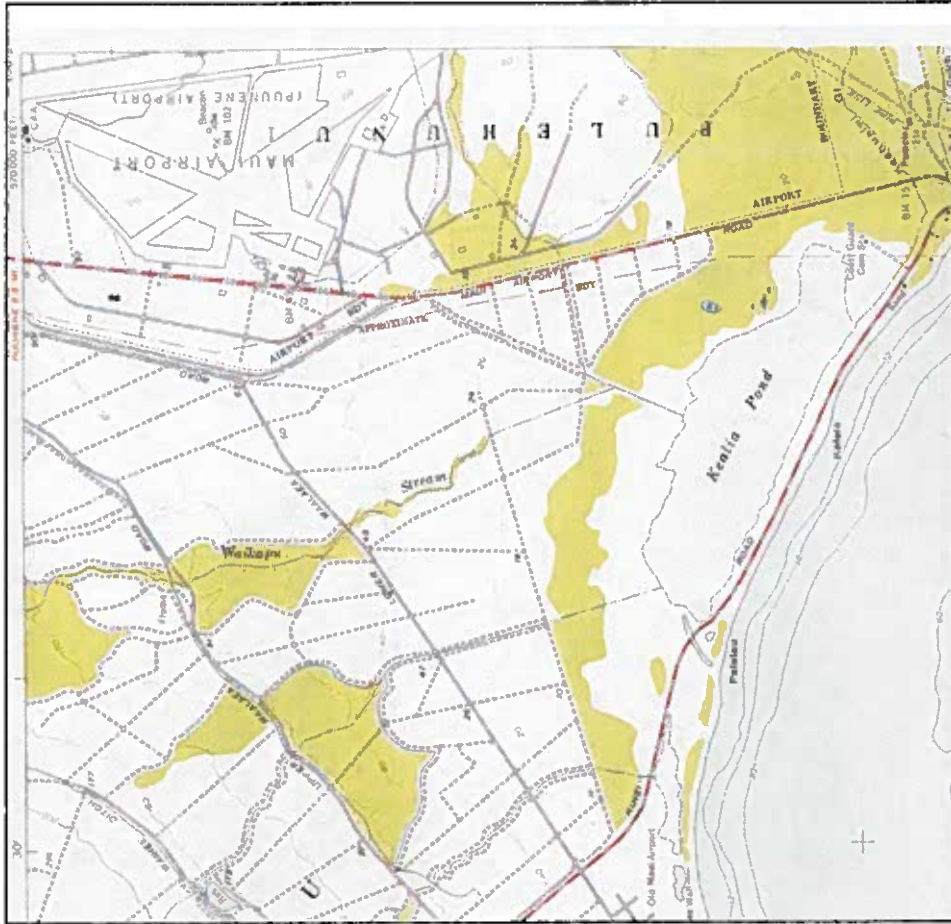
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Historical Topographic Map



N	
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CLIENT: Enviro Svcs. and Tmg. Center CONTACT: Shanta Nakashima INQUIRY#: 2072944.4 RESEARCH DATE: 01/24/2011	CLIENT: Enviro Svcs. and Tmg. Center CONTACT: Shanta Nakashima INQUIRY#: 2072944.4 RESEARCH DATE: 01/24/2011

Historical Topographic Map



N ↑	ADJOINING QUAD NAME: Maui, HI MAP YEAR: 1954 SERIES: 7.5 SCALE: 1:24,000	SITE NAME: Former Puunene Piggery Site ADDRESS: South Fire Break Road Kihai, HI 96753 LAT/LONG: 20.8154 / -156.4528	CLIENT: Enviro Svcs. and Trng. Center CONTACT: Sharda Nakashima INQUIRY#: 2972944.4 RESEARCH DATE: 01/24/2011
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Historical Topographic Map



N ↑	ADJOINING QUAD NAME: Maui, HI MAP YEAR: 1953 SERIES: 7.5 SCALE: 1:24,000	SITE NAME: Former Puunene Piggery Site ADDRESS: South Fire Break Road Kihai, HI 96753 LAT/LONG: 20.8154 / -156.4528	CLIENT: Enviro Svcs. and Trng. Center CONTACT: Sharda Nakashima INQUIRY#: 2972944.4 RESEARCH DATE: 01/24/2011
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Former Puunene Piggy Site
South Fire Break Road
Kihei, HI 96753

Inquiry Number: 2972944.5
January 25, 2011

The EDR Aerial Photo Decade Package



Environmental Data Resources Inc

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800.352.0050
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EDR Aerial Photo Decade Package

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Date EDR Searched Historical Sources:

Aerial Photography January 25, 2011

Target Property:

South Fire Break Road
Kihei, HI 96753

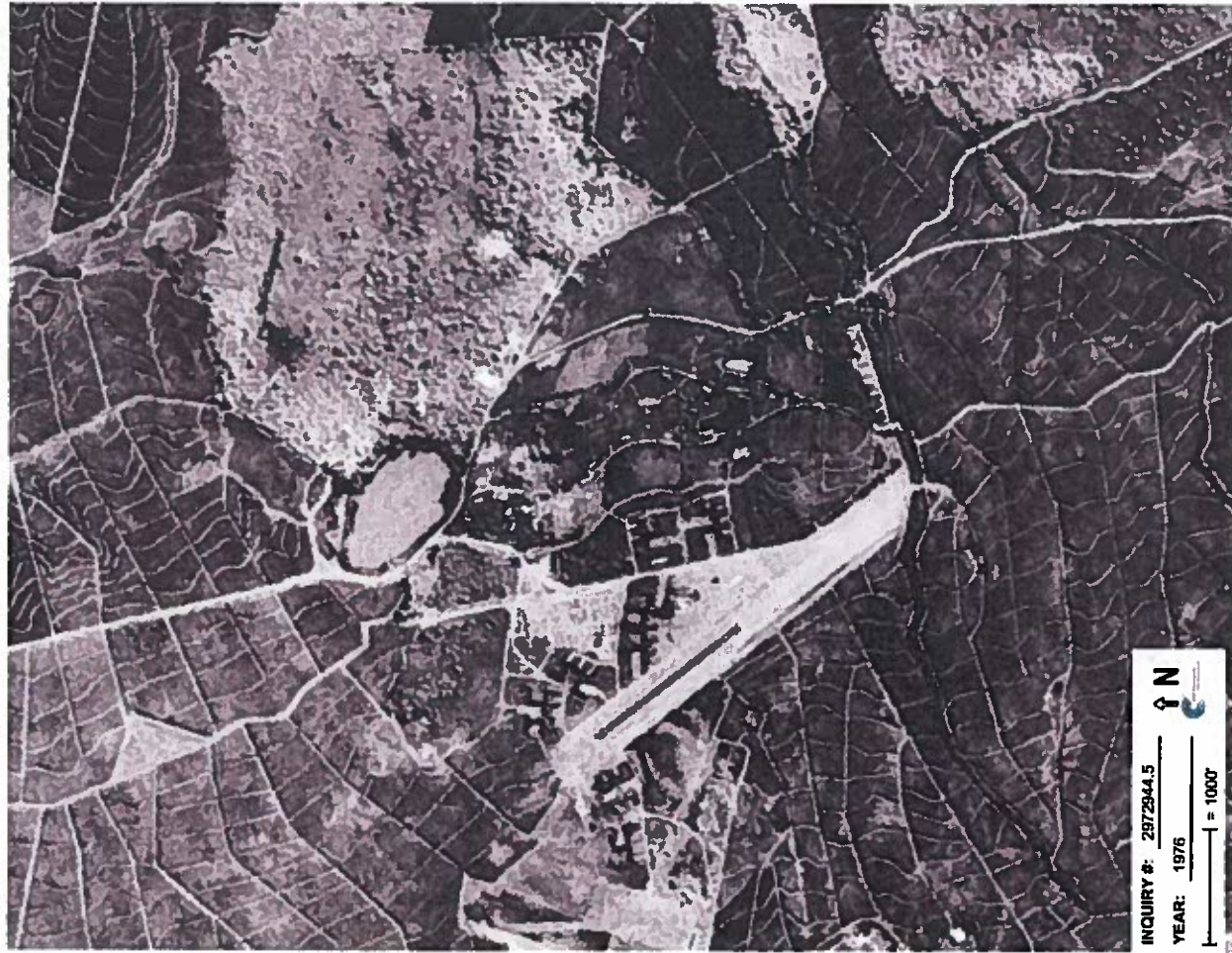
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1976	Aerial Photograph Scale: 1"=1000'	Panel # 20156-G4, WAILUKU, HI Flight Date: December 20, 1976	EDR
1992	Aerial Photograph Scale: 1"=1000'	Panel # 20156-G4, WAILUKU, HI Flight Date: September 23, 1992	EDR



INQUIRY #: 2972944.5
YEAR: 1954
1" = 750'

2972944.5

2



Former Puumene Piggery Site
South Fire Break Road
Kithui, HI 96752

Inquiry Number: 2972944.7
January 25, 2011

The EDR Environmental LienSearch™ Report



Environmental Data Resources Inc.

EDR Environmental LienSearch™ Report

The EDR Environmental Lien Search 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 title documents reviewed.

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EDR Environmental LienSearch™ Report

TARGET PROPERTY INFORMATION

ADDRESS

FORMER PUUNENE PIGGERY SITE
SOUTH FIRE BREAK ROAD
Kilauea, HI 96753

RESEARCH SOURCE

Source 1: HI State Bureau of Conveyances
Source 2: N/A
Examiner's Note: Public records of HI State Bureau of Conveyances were searched from January 1, 1980 to January 17, 2011, and no other deeds vesting title in the subject property were found of record during the period searched

PROPERTY DESCRIPTION

Current Owner: A&B Hawaii Inc
Legal Description: See deed attached
Property Identifiers: APN: 3-5-008-019-0000
General Comments: N/A

PROPERTY INFORMATION

Deed 1:
Type of Deed: Sub-Sublease
Title is vested in: Lessee Broadcasting Corp and Ray Cal Broadcasting Inc
Title received from: A&B Hawaii Inc
Date Executed: August 4, 1994
Date Recorded: October 12, 1994
Book:
Page:
Volume:
Instrument #: 94-171517
Docket:

Land Record Comments: According to the cover, this property has been owned by A&B Hawaii Inc prior to our search period. This lease is the last recorded document of record.

ENVIRONMENTAL LIEN

Environmental Lien: Found
If found: Not Found X

EDR Environmental LienSearch™ Report

1st Party:
2nd Party:
Dated:
Recorded:
Book:
Page:
Docket:
Volume:
Instrument:
Comments:
Miscellaneous:

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AUL's: Found Not Found X
If found:

1st Party:
2nd Party:
Dated:
Recorded:
Book:
Page:
Docket:
Volume:
Instrument:
Comments:

DEED EXHIBIT

STATE OF MAINE
 DEPARTMENT OF CONSUMERS
 RECORDS

OCT 14, 1982 01:40 PM
 Fee: \$4.00 (15.1)

ALL 3. FUNDING
 REGISTERS OF CONFINEMENTS
 (CONFINEMENTS TAX: \$100.00)

RECORDS SECTION

LAND COURT SYSTEM
 Record by Bill C. 1. Record 1 3 1

CAROLINE ANN STONE
 1001 Willow Street
 Portland, Maine 04101
 Attention: Mr. James E. J.

DEED FROM SUB-LEASE

This Short Form Sub-Lease ("Short Form Lease") made this 14th day of October, 1982, between CAROLINE ANN STONE, a single woman, of the County of Cumberland, State of Maine, and the MAINE DEPARTMENT OF CONSUMERS, a corporation, of the County of Cumberland, State of Maine, for the purpose of leasing to the State of Maine, Maine Department of Consumers, a corporation, of the County of Cumberland, State of Maine, the principal place of business and post office address of CAROLINE ANN STONE, 1001 Willow Street, Portland, Maine 04101, and the MAINE DEPARTMENT OF CONSUMERS, a corporation, of the County of Cumberland, State of Maine, the principal place of business and post office address is 230 Main Highway, Bangor, Maine 04401 ("My-Can").

WITNESSETH

That CAROLINE ANN STONE entered into this certain Sub-Lease with the MAINE DEPARTMENT OF CONSUMERS, a corporation, of the County of Cumberland, State of Maine, dated July 14, 1982 (the "Sub-Lease"), whereby CAROLINE ANN STONE has granted and conveyed unto the MAINE DEPARTMENT OF CONSUMERS, a corporation, of the County of Cumberland, State of Maine, the principal place of business and post office address is 230 Main Highway, Bangor, Maine 04401, the certain parcel of real property described as follows:

4.5.

01245773

STATE OF INDIANA
COUNTY OF ST. JOHNS

ss.

On this 21st day of July, 1914, before me personally appeared John A. Kunkin, known to me, and acknowledged to me that he executed the foregoing instrument in the capacity above stated, and that he executed the same voluntarily and without duress, fraud, or undue influence, and that he was duly qualified to execute such instrument in such capacity.

John A. Kunkin
Notary Public, State of Indiana
My commission expires: 12-15-15

APPENDIX IV
REGULATORY RECORDS DOCUMENTATION (EDR Radius Map Report)

Former Puunene Piggy Site
South Fire Break Road
Kihei, HI 96753

Inquiry Number: 2972944.2s
January 24, 2011

The EDR Radius Map™ Report with GeoCheck®



440 Wheelers Farms Road
Middletown, CT 06451
Toll Free 800 352 0050
www.edr.net

FORM EDR-1000

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GEOCHECK ADDENDUM

Physical Setting Source Addendum.....	A-1
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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. Environmental Data Resources, Inc. does not warrant the accuracy, completeness, or timeliness of the information contained in this Report. Environmental Data Resources, Inc. specifically disclaims the making of any warranties, including but not limited to, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A RETURN OF THE AMOUNT PAID FOR THIS REPORT. Environmental Data Resources, Inc. is not responsible for any environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing, any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

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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 Investigations (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-03) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

SOUTH FIRE BREAK ROAD
KAPAHULU, HI 96753

COORDINATES

Latitude (North): 20.815400 - 20° 48' 55.4"
Longitude (West): 156.452500 - 156° 27' 10.1"
Universal Transverse Mercator: Zone 4
UTM X (Meters): 785121.4
UTM Y (Meters): 2003676.8
Elevation: 124 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 20156-G4 WALLUKU, 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 Deleted NPL site list

Deleted NPL..... National Priority List Deletions

EXECUTIVE SUMMARY

Federal CERCLIS list

CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System
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-LOG..... RCRA - Large Quantity Generators
RCRA-SQG..... RCRA - Small 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 - equivalent CERCLIS

SHWS..... Sites List

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

SWFLF..... Permitted Landfills in the State of Hawaii

State and tribal leaking storage tank lists

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

State and tribal registered storage tank lists

UST..... Underground Storage Tank Database
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

EXECUTIVE SUMMARY

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

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

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

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

ODL..... Open Dump Inventory

INDIAN ODL..... Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL..... Clandestine Drug Labs

CDL..... Clandestine Drug Lab Listing

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

CONSENT..... Superfund (CERCLA) Consent Decrees

ROD..... Records of Decision

UMTRA..... Uranium Mill Tailings Sites

MINES..... Mine Waste Inactive File

TRIS..... Toxic Chemical Release Inventory System

TSCA..... Toxic Substances Control Act

FTTS..... FIFRA/TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)

HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing

SSTS..... Section 7 Tracking Systems

EXECUTIVE SUMMARY

ICIS..... Integrated Compliance Information System

PAQS..... PCB Activity Database System

MACTs..... Material Licensing Tracking System

RADINFO..... Radiation Information Database

FINDS..... Facility Index System/Facility Registry System

RCRA..... RCRA Administrative Action Tracking System

UIC..... Underground Injection Wells Listing

DRYCLEANERS..... Permitted Drycleaner Facility Listing

AKRS..... List of Permitted Facilities

INDIAN RESERV..... Indian Reservations

SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing

COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List

COAL ASH DOE..... Steam-Electric Plant 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. Relating 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.

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

FUDS: 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.

A review of the FUDS list, as provided by EDR, and dated 12/31/2009 has revealed that there is 1 FUDS site within approximately 1 mile of the target property.

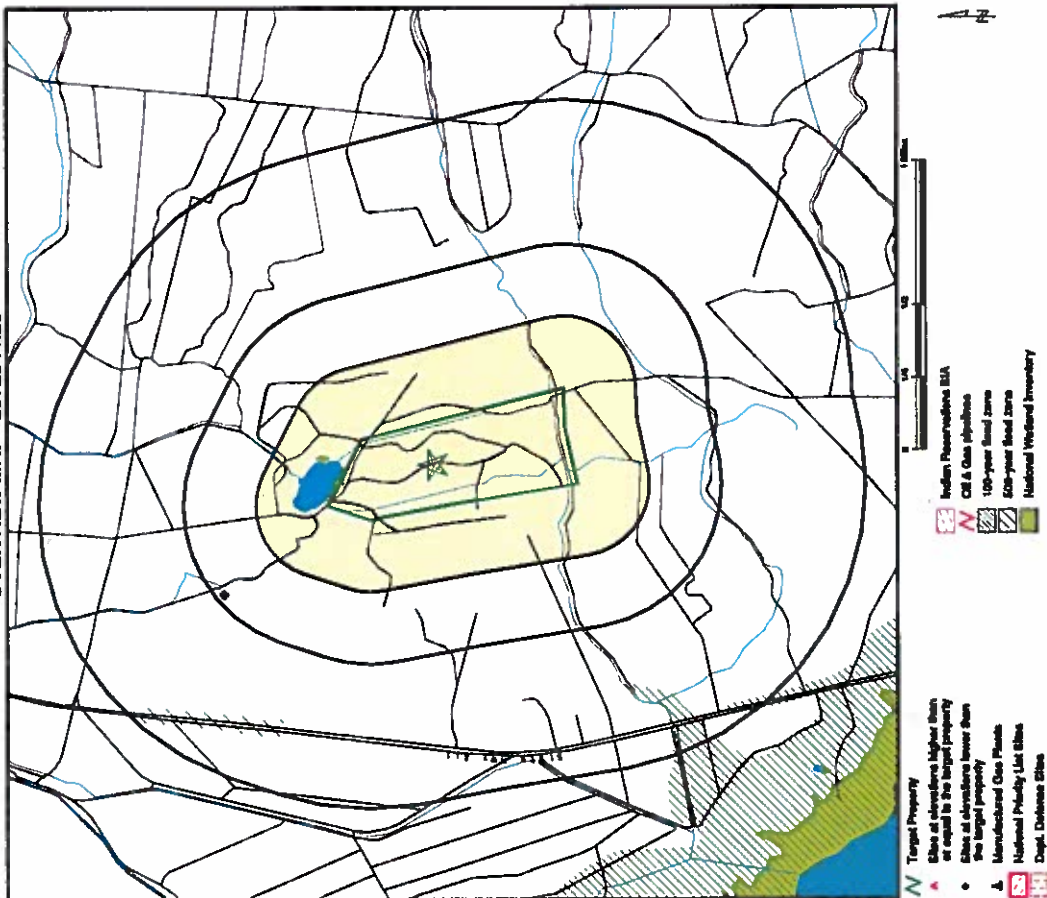
Lower Elevation	Address	Direction / Distance	Map ID	Page
MAUI AIRPORT MILITARY RES		NW 1/4 - 17 (0.472 mi.)	1	7

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 3 records.

Site Name	Database(s)
MECO GENERATING STATION MAALAE	SHWS, SPILLS
KIHEI WWTP	LUST, LUST
MONSANTO COMPANY	RCRA-SQG

OVERVIEW MAP - 2872944.2s

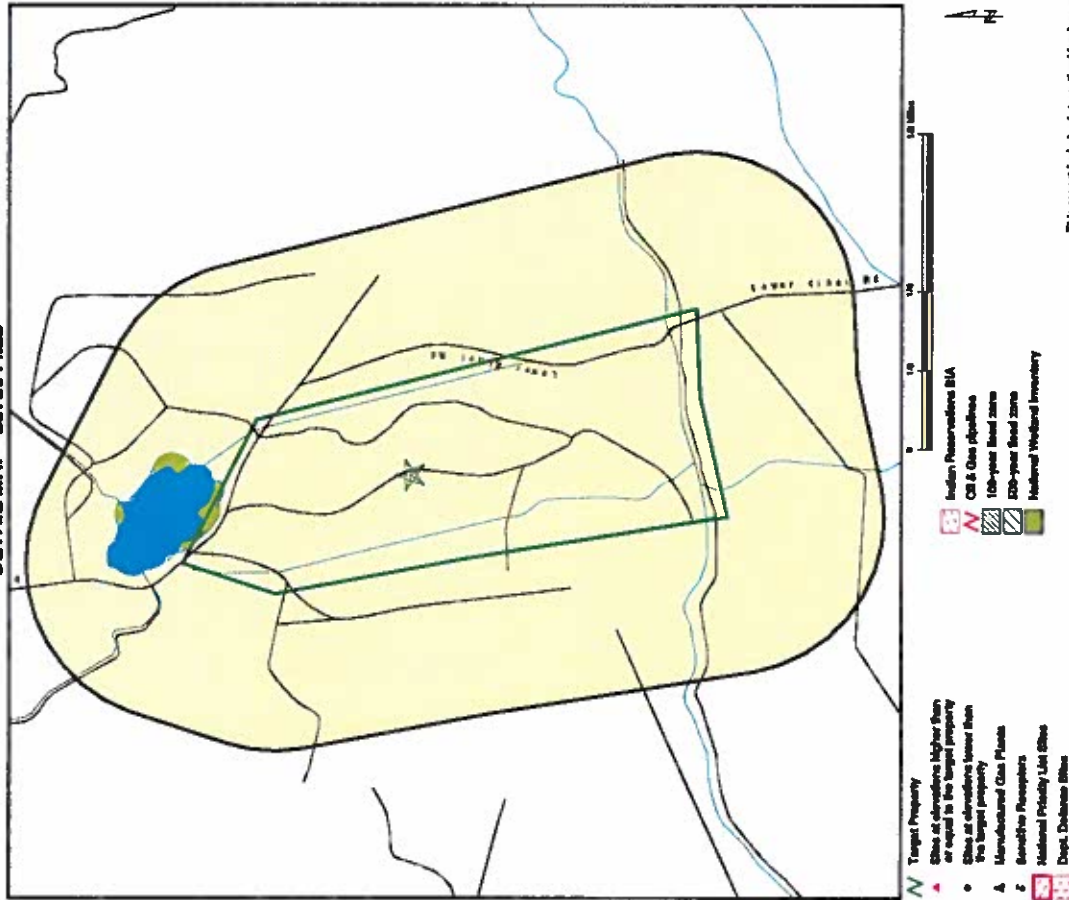


This report includes Interactive Map Layers to display active data map information. The legend includes only those icons for the default map view.

SITE NAME: Former Puunene Piggy Site	CLIENT: Erwin Svcs. and Trng. Center
ADDRESS: South Fire Break Road	CONTACT: Sheri Nakashima
LAT/LONG: 20.8154 / 156.4528	INQUIRY #: 2872944.2s
	DATE: January 24, 2011 12:28 pm

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DETAIL MAP - 2872844.2s



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

SITE NAME: Former Puamoa Piggy Bank ADDRESS: South Fire Break Road Kilauea HI 96753 LAT/LONG: 20.8154 / 155.4528	CLIENT: Ennio Svcs. and Tmp. Center CONTACT: Sheria Nakashima INQUIRY #: 2872844.2s DATE: January 24, 2011 12:28 pm Copyright 2011 GSA, Inc. 2011 GSA, Inc. 10/10/2011
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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
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1,000	0	0	0	0	0	NR	0
Proposed NPL	1,000	0	0	0	0	0	NR	0
NPL LIENS	TP	NR	NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1,000	0	0	0	0	0	NR	0
Federal CERCLIS list								
CERCLIS	0.500	0	0	0	0	NR	NR	0
FEDERAL FACILITY	1,000	0	0	0	0	0	NR	0
Federal CERCLIS NFRAP site List								
CERC-NFRAP	0.500	0	0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1,000	0	0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500	0	0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LOG	0.250	0	0	0	NR	NR	NR	0
RCRA-SQG	0.250	0	0	0	NR	NR	NR	0
RCRA-CESQG	0.250	0	0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
US ENG CONTROLS	0.500	0	0	0	0	NR	NR	0
US INST CONTROL	0.500	0	0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP	NR	NR	NR	NR	NR	NR	0
State- and tribal - equivalent CERCLIS								
SHWS	1,000	0	0	0	0	0	NR	0
State and tribal landfill and/or solid waste disposal site lists								
SWFLF	0.500	0	0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500	0	0	0	0	NR	NR	0
INDIAN LUST	0.500	0	0	0	0	NR	NR	0
State and tribal registered storage tank lists								
UST	0.250	0	0	0	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
INDIAN UST		0.250	0	0	NR	NR	NR	0
FEMA UST		0.250	0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
ENG CONTROLS		0.500	0	0	NR	NR	NR	0
INST CONTROL		0.500	0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP		0.500	0	0	NR	NR	NR	0
VCP		0.500	0	0	NR	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS		0.500	0	0	NR	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local / Brownfield lists								
US BROWNFIELDS		0.500	0	0	NR	NR	NR	0
Local Lists of Landfills / Solid Waste Disposal Sites								
DEBRIS REGION 9		0.500	0	0	NR	NR	NR	0
ODI		0.500	0	0	NR	NR	NR	0
INDIAN ODI		0.500	0	0	NR	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL		TP	NR	NR	NR	NR	NR	0
CDL		TP	NR	NR	NR	NR	NR	0
US HIST CDL		TP	NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2		TP	NR	NR	NR	NR	NR	0
LUCIS		0.500	0	0	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS		TP	NR	NR	NR	NR	NR	0
SPILLS		TP	NR	NR	NR	NR	NR	0
Other Ascertainable Records								
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	1	0	NR	1
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
UMTRA		0.500	0	0	NR	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
TRIS		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
TSCA		TP	NR	NR	NR	NR	NR	0
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
MALTS		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
SCRID 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 ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
1	NW	14-1/2	0.472 mi.	MAUI AIRPORT MILITARY RES	FUDS	1007212729	N/A
Relative:							
Lower							
Actual:							
120 ft.							



MAUI AIRPORT MILITARY RES
 PUJUNENE, HI
 2493 ft.

FUDS: H0795F3960
 FUDS #: H09H0225
 INST ID: 54516
 Facility Name: MAUI AIRPORT MILITARY RES
 City: PUJUNENE
 State: HI
 EPA Region: 9
 County: MAUI
 Congressional District: 02
 US Army District: Honolulu District (POH)
 Fiscal Year: 2009
 Telephone: 808-438-8317
 NPL Status: Not Listed
 RAB: Not reported
 CTC: 13855.7189197592
 Current Owner: STATE

FUDS Description Details:
 The former Maui Airport Military Reservation consists of 1,875 acres and is located midway to Kihel on Molokai Highway. The airport was known as Puunene Naval Air Station and was built from 1935-1939. The airport was used by the Navy from 1940 to 19 945 and was later returned for civilian use. After the military left the site, the area was used for agriculture, ranging from sugar cultivation to animal husbandry. The current owner is the State of Hawaii.

FUDS History Details:
 The site was used as a naval air station that also supported Army operations. Radio-controlled drones were used to aid in the development of accuracy among anti-aircraft gunners. The site consisted of nine underground fuel storage tanks, a transformer building with a PCB transformer, and a former landfill that may need to be removed or remediated. Current use of the site includes a heliport, crop dusting airplane runway, and a drag strip. The County of Maui is proposing the area to be a county f background.

FUDS Current Program Details:

FUDS Future Program Details:

City	EDR ID	Site Name	Site Address	Zip	Database(s)
KIHEI	U001226805	KIHEI WWTP	480TH WELERAKAHO RD & PILILANI	96753	LUST, LST
KIHEI	9106819074	MECO GENERATING STATION MAALAE	N KIHIE RD	96753	SHWS, SPILLS
KIHEI	10100154886	MONSANTO COMPANY	2111 PILILANI HWY	96753	RCRA, SOG

ORPHAN SUMMARY

Count: 3 records

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 governmental agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List
The National Priority 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: 07/02/2010
Date Data Arrived at EDR: 07/14/2010
Date Made Active in Reports: 10/04/2010
Number of Days to Update: 82
Source: EPA
Telephone: N/A
Last EDR Contact: 01/13/2011
Next Scheduled EDR Contact: 04/25/2011
Data Release Frequency: Quarterly

NPL Site Boundaries

Source: EPA's Environmental Photographic Interpretation Center (EPIC)

Telephone: 202-564-7333

EPA Region 1
Telephone: 617-918-1143
EPA Region 2
Telephone: 214-655-6659
EPA Region 3
Telephone: 215-814-5418
EPA Region 4
Telephone: 404-562-8033
EPA Region 5
Telephone: 312-895-6968
EPA Region 6
Telephone: 312-312-6774
EPA Region 7
Telephone: 915-551-7247
EPA Region 8
Telephone: 303-312-6774
EPA Region 9
Telephone: 415-947-4248
EPA Region 10
Telephone: 202-563-8695

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: 07/02/2010
Date Data Arrived at EDR: 07/14/2010
Date Made Active in Reports: 10/04/2010
Number of Days to Update: 82
Source: EPA
Telephone: N/A
Last EDR Contact: 01/13/2011
Next Scheduled EDR Contact: 04/25/2011
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 completes a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 02/02/1994
Number of Days to Update: 35
Source: EPA
Telephone: 202-564-4327
Last EDR Contact: 11/22/2010
Next Scheduled EDR Contact: 02/26/2011
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Dedicated NPL site list

DELISTED NPL: National Priority List Delineations
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: 07/02/2010
Date Data Arrived at EDR: 07/14/2010
Date Made Active in Reports: 10/04/2010
Number of Days to Update: 82
Source: EPA
Telephone: N/A
Last EDR Contact: 01/13/2011
Next Scheduled EDR Contact: 04/25/2011
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: 01/09/2010
Date Data Arrived at EDR: 02/09/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 62
Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 12/02/2010
Next Scheduled EDR Contact: 04/11/2011
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 77s Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 06/23/2009
Date Data Arrived at EDR: 01/15/2010
Date Made Active in Reports: 02/10/2010
Number of Days to Update: 26
Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 01/11/2011
Next Scheduled EDR Contact: 04/25/2011
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 on available information, the location is not judged to be a potential NPL site.

Date of Government Version: 06/23/2009
Date Data Arrived at EDR: 05/02/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 19
Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 12/01/2010
Next Scheduled EDR Contact: 03/14/2011
Data Release Frequency: Quarterly

Federal RCRA CORRECTS facilities list

CORRECTS: Corrective Action Report

CORRECTS identifies hazardous waste handlers with RCRA corrective action activity.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/25/2010
 Date Data Arrived at EDR: 06/02/2010
 Date Made Active in Reports: 10/04/2010
 Number of Days to Update: 124
 Data Release Frequency: Quarterly

Federal RCRA non-CORRACTs TSD facilities list

RCRA-TSD: 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. TSDs 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
 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
 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
 Data Release Frequency: Quarterly

RCRA-CESSQG: 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 (CESSQGs) 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
 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 affect human health.

Date of Government Version: 12/20/2009
 Date Data Arrived at EDR: 01/20/2010
 Date Made Active in Reports: 04/12/2010
 Number of Days to Update: 82
 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
 Date Data Arrived at EDR: 01/20/2010
 Date Made Active in Reports: 04/12/2010
 Number of Days to Update: 82
 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: 07/09/2010
 Date Data Arrived at EDR: 07/09/2010
 Date Made Active in Reports: 06/17/2010
 Number of Days to Update: 39
 Data Release Frequency: Annually

State- and tribal- and/or solid waste disposal site lists

SWMS: 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 12B (includes CERCLIS sites).

Date of Government Version: 12/01/2009
 Date Data Arrived at EDR: 12/07/2009
 Date Made Active in Reports: 01/08/2010
 Number of Days to Update: 32
 Data Release Frequency: Semi-Annually

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

SWFLF: Permitted Landfills in the State of Hawaii

Solid Waste Facilities Landfill Sites. SWFLF 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
 Date Data Arrived at EDR: 04/08/2010
 Date Made Active in Reports: 05/19/2010
 Number of Days to Update: 41
 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: 12/19/2010

Date Data Arrived at EDR: 12/17/2010

Date Made Active in Reports: 01/24/2011

Number of Days to Update: 38

Source: Department of Health

Telephone: 808-598-4728

Last EDR Contact: 12/09/2010

Next Scheduled EDR Contact: 03/21/2011

Data Release Frequency: Semi-Annually

INDIAN LUST RB: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma

Date of Government Version: 08/05/2010

Date Data Arrived at EDR: 08/06/2010

Date Made Active in Reports: 10/04/2010

Number of Days to Update: 59

Source: EPA Region 8

Telephone: 214-655-6597

Last EDR Contact: 11/01/2010

Next Scheduled EDR Contact: 02/14/2011

Data Release Frequency: Varies

INDIAN LUST RS: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 08/30/2010

Date Data Arrived at EDR: 08/30/2010

Date Made Active in Reports: 10/04/2010

Number of Days to Update: 35

Source: Environmental Protection Agency

Telephone: 415-972-3372

Last EDR Contact: 11/01/2010

Next Scheduled EDR Contact: 02/14/2011

Data Release Frequency: Quarterly

INDIAN LUST RB: 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

Date Data Arrived at EDR: 05/27/2010

Date Made Active in Reports: 06/09/2010

Number of Days to Update: 74

Source: EPA Region 8

Telephone: 303-312-6271

Last EDR Contact: 11/01/2010

Next Scheduled EDR Contact: 02/14/2011

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

Date Data Arrived at EDR: 06/04/2010

Date Made Active in Reports: 07/07/2010

Number of Days to Update: 84

Source: EPA Region 7

Telephone: 913-551-7003

Last EDR Contact: 12/03/2010

Next Scheduled EDR Contact: 02/14/2011

Data Release Frequency: Varies

INDIAN LUST RB: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina

Date of Government Version: 08/27/2010

Date Data Arrived at EDR: 08/30/2010

Date Made Active in Reports: 10/04/2010

Number of Days to Update: 35

Source: EPA Region 4

Telephone: 404-502-8677

Last EDR Contact: 11/01/2010

Next Scheduled EDR Contact: 02/14/2011

Data Release Frequency: Semi-Annually

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: 02/18/2009

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: 817-918-1313

Last EDR Contact: 11/02/2010

Next Scheduled EDR Contact: 02/14/2011

Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

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

Date of Government Version: 08/05/2010

Date Data Arrived at EDR: 08/06/2010

Date Made Active in Reports: 10/04/2010

Number of Days to Update: 59

Source: EPA Region 10

Telephone: 208-553-2857

Last EDR Contact: 11/01/2010

Next Scheduled EDR Contact: 02/14/2011

Data Release Frequency: Quarterly

State and Tribal registered storage tank lists

LUST: Underground Storage Tank Database

Registered Underground Storage Tanks. USTs 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: 09/20/2010

Date Data Arrived at EDR: 09/20/2010

Date Made Active in Reports: 10/07/2010

Number of Days to Update: 17

Source: Department of Health

Telephone: 808-598-4728

Last EDR Contact: 12/09/2010

Next Scheduled EDR Contact: 03/21/2011

Data Release Frequency: Semi-Annually

INDIAN LUST RB: 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 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 08/30/2010

Date Data Arrived at EDR: 08/30/2010

Date Made Active in Reports: 10/04/2010

Number of Days to Update: 35

Source: EPA Region 9

Telephone: 415-972-3368

Last EDR Contact: 11/01/2010

Next Scheduled EDR Contact: 02/14/2011

Data Release Frequency: Quarterly

INDIAN LUST RB: 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

Date Data Arrived at EDR: 05/27/2010

Date Made Active in Reports: 06/09/2010

Number of Days to Update: 74

Source: EPA Region 8

Telephone: 303-312-6137

Last EDR Contact: 11/01/2010

Next Scheduled EDR Contact: 02/14/2011

Data Release Frequency: Quarterly

INDIAN LUST 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: 817-918-1313

Last EDR Contact: 11/02/2010

Next Scheduled EDR Contact: 02/14/2011

Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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)

Source: EPA Region 7
Telephone: 913-551-7003
Date Data Arrived at EDR: 12/09/2009
Last EDR Contact: 11/09/2010
Next Scheduled EDR Contact: 02/14/2011
Data Release Frequency: Varies
Number of Days to Update: 76

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 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 85 Tribes)

Source: EPA Region 8
Telephone: 214-885-7591
Date Data Arrived at EDR: 08/04/2010
Last EDR Contact: 11/01/2010
Next Scheduled EDR Contact: 02/14/2011
Data Release Frequency: Semi-Annually
Number of Days to Update: 61

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)

Source: EPA Region 5
Telephone: 312-886-6138
Date Data Arrived at EDR: 02/11/2010
Last EDR Contact: 11/01/2010
Next Scheduled EDR Contact: 02/14/2011
Data Release Frequency: Varies
Number of Days to Update: 60

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)

Source: EPA Region 10
Telephone: 208-553-2857
Date Data Arrived at EDR: 08/05/2010
Last EDR Contact: 11/01/2010
Next Scheduled EDR Contact: 02/14/2011
Data Release Frequency: Quarterly
Number of Days to Update: 59

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)

Source: EPA Region 4
Telephone: 404-582-9424
Date Data Arrived at EDR: 08/07/2010
Last EDR Contact: 11/01/2010
Next Scheduled EDR Contact: 02/14/2011
Data Release Frequency: Semi-Annually
Number of Days to Update: 35

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Source: FEMA
Telephone: 202-848-5737
Date Data Arrived at EDR: 02/16/2010
Last EDR Contact: 01/17/2011
Next Scheduled EDR Contact: 05/02/2011
Data Release Frequency: Varies
Number of Days to Update: 55

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.

Source: Department of Health
Telephone: 404-588-4249
Date Data Arrived at EDR: 12/07/2009
Last EDR Contact: 12/08/2010
Next Scheduled EDR Contact: 03/14/2011
Data Release Frequency: Varies
Number of Days to Update: 32

INST CONTROL: Sites with Institutional Controls
Voluntary Remediation Program and Brownfields sites with institutional controls in place.

Source: Department of Health
Telephone: 404-588-4249
Date Data Arrived at EDR: 12/07/2009
Last EDR Contact: 12/08/2010
Next Scheduled EDR Contact: 03/14/2011
Data Release Frequency: Varies
Number of Days to Update: 32

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Source: EPA Region 1
Telephone: 817-918-1102
Date Data Arrived at EDR: 04/02/2008
Last EDR Contact: 01/05/2010
Next Scheduled EDR Contact: 04/19/2011
Data Release Frequency: Varies
Number of Days to Update: 27

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 very fast yet encourage prospective developers, lenders, and purchasers to voluntarily cleanup properties.

Source: Department of Health
Telephone: 404-588-4249
Date Data Arrived at EDR: 12/07/2009
Last EDR Contact: 12/08/2010
Next Scheduled EDR Contact: 03/14/2011
Data Release Frequency: Varies
Number of Days to Update: 32

INDIAN VCP R7: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Source: EPA Region 7
Telephone: 913-551-7385
Date Data Arrived at EDR: 03/20/2008
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies
Number of Days to Update: 27

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Sites
With certain legal encumbrances 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.

Source: Department of Health
Telephone: 404-588-4249
Date Data Arrived at EDR: 12/07/2009
Last EDR Contact: 12/08/2010
Next Scheduled EDR Contact: 03/14/2011
Data Release Frequency: Varies
Number of Days to Update: 32

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfields Sites

US BROWNFIELDS: A listing of Brownfields Sites included in the listing are brownfields properties addressed 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 Plans-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: 06/24/2010
 Date Data Arrived at EDR: 06/25/2010
 Date Made Active in Reports: 06/17/2010
 Number of Days to Update: 53
 Source: Environmental Protection Agency
 Telephone: 202-565-2777
 Last EDR Contact: 12/30/2010
 Next Scheduled EDR Contact: 04/11/2011
 Data Release Frequency: Semi-Annually

Local Lists of Landfills / Solid Waste Disposal Sites

OK: 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: 06/20/1995
 Date Data Arrived at EDR: 06/09/2004
 Date Made Active in Reports: 06/17/2004
 Number of Days to Update: 39
 Source: Environmental Protection Agency
 Telephone: 800-424-6348
 Last EDR Contact: 06/09/2004
 Next Scheduled EDR Contact: N/A
 Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torrey Martinez Reservation Liquid Dump Site Locations
 A listing of liquid dump sites located on the Torrey Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
 Date Data Arrived at EDR: 05/07/2009
 Date Made Active in Reports: 06/12/2009
 Number of Days to Update: 137
 Source: EPA, Region 9
 Telephone: 415-947-4219
 Last EDR Contact: 12/22/2010
 Next Scheduled EDR Contact: 04/11/2011
 Data Release Frequency: No Update Planned

INDIAN ODE: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.
 Date of Government Version: 12/01/1998
 Date Data Arrived at EDR: 12/02/2007
 Date Made Active in Reports: 01/24/2008
 Number of Days to Update: 52
 Source: Environmental Protection Agency
 Telephone: 703-308-6245
 Last EDR Contact: 11/09/2010
 Next Scheduled EDR Contact: 02/21/2011
 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 department.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/07/2010
 Date Data Arrived at EDR: 06/18/2010
 Date Made Active in Reports: 06/17/2010
 Number of Days to Update: 80
 Source: Drug Enforcement Administration
 Telephone: 202-307-1000
 Last EDR Contact: 12/09/2010
 Next Scheduled EDR Contact: 03/21/2011
 Data Release Frequency: Quarterly

CDL: Clandestine Drug Lab Listing

A listing of clandestine drug lab site locations.

Date of Government Version: 08/04/2010
 Date Data Arrived at EDR: 09/10/2010
 Date Made Active in Reports: 10/22/2010
 Number of Days to Update: 42
 Source: Department of Health
 Telephone: 800-398-4249
 Last EDR Contact: 01/04/2011
 Next Scheduled EDR Contact: 03/21/2011
 Data Release Frequency: Varies

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 department.

Date of Government Version: 08/01/2007
 Date Data Arrived at EDR: 11/18/2008
 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

UEHS 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. CERCLUS provides information as to the identity of these sites and properties.

Date of Government Version: 05/06/2010
 Date Data Arrived at EDR: 06/11/2010
 Date Made Active in Reports: 06/09/2010
 Number of Days to Update: 90
 Source: Environmental Protection Agency
 Telephone: 202-594-6023
 Last EDR Contact: 11/01/2010
 Next Scheduled EDR Contact: 02/14/2011
 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: 12/08/2005
 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: 843-520-7236
 Last EDR Contact: 11/22/2010
 Next Scheduled EDR Contact: 03/07/2011
 Data Release Frequency: Varies

Records of Emergency Release Reports

HMRS: Hazardous Materials Incident Reporting System

Hazardous Materials Incident Report System. HMRS 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: 202-368-4555
 Last EDR Contact: 01/05/2011
 Next Scheduled EDR Contact: 04/18/2011
 Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 26
Data Release Frequency: Varies

Source: Department of Health
Telephone: 808-589-4249
Last EDR Contact: 12/09/2010
Next Scheduled EDR Contact: 03/14/2011

Other Assessable Records

RCRA-NonGen: RCRA - Non Generations
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-Generations do not presently generate hazardous 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
Data Release Frequency: Varies

Source: Environmental Protection Agency
Telephone: (415) 495-8885
Last EDR Contact: 01/06/2011
Next Scheduled EDR Contact: 04/18/2011

DOT OPS: Incident and Accident Data
Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/12/2010
Date Data Arrived at EDR: 02/09/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 62
Data Release Frequency: Varies

Source: Department of Transportation, Office of Pipeline Safety
Telephone: 202-368-4595
Last EDR Contact: 11/03/2010
Next Scheduled EDR Contact: 02/21/2011

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
Date Data Arrived at EDR: 11/10/2008
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 82
Data Release Frequency: Semi-Annually

Source: USGS
Telephone: 703-692-6801
Last EDR Contact: 01/21/2011
Next Scheduled EDR Contact: 05/02/2011

FLDS: 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: 12/31/2009
Date Data Arrived at EDR: 06/12/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 112
Data Release Frequency: Varies

Source: U.S. Army Corps of Engineers
Telephone: 202-529-4285
Last EDR Contact: 12/13/2010
Next Scheduled EDR Contact: 03/28/2011

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 matter.

Date of Government Version: 07/01/2010
Date Data Arrived at EDR: 08/11/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 113
Data Release Frequency: Varies

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 01/03/2011
Next Scheduled EDR Contact: 04/18/2011

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 08/01/2010
Date Data Arrived at EDR: 08/16/2010
Date Made Active in Reports: 08/17/2010
Number of Days to Update: 62
Data Release Frequency: Annually

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 12/10/2010
Next Scheduled EDR Contact: 03/28/2011

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: 12/14/2009
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 10/04/2010
Number of Days to Update: 5
Data Release Frequency: Varies

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 11/29/2010
Next Scheduled EDR Contact: 03/14/2011

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: 08/04/2010
Date Data Arrived at EDR: 09/09/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 84
Data Release Frequency: Semi-Annually

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 09/09/2010
Next Scheduled EDR Contact: 03/21/2011

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
Date Data Arrived at EDR: 01/13/2010
Date Made Active in Reports: 02/16/2010
Number of Days to Update: 38
Data Release Frequency: Annually

Source: EPA
Telephone: 202-586-0250
Last EDR Contact: 12/17/2010
Next Scheduled EDR Contact: 03/14/2011

TSCA: 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: 12/31/2008
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 84
Data Release Frequency: Every 4 Years

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 12/29/2010
Next Scheduled EDR Contact: 04/11/2011

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
Date Data Arrived at EDR: 04/18/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Data Release Frequency: Quarterly

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1687
Last EDR Contact: 11/29/2010
Next Scheduled EDR Contact: 03/14/2011

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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 enforcement.

Date of Government Version: 04/09/2008
Date Data Arrived at EDR: 04/10/2008
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1887
Last EDR Contact: 11/23/2010
Next Scheduled EDR Contact: 03/14/2011
Data Release Frequency: Quarterly

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: 10/19/2008
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-594-2501
Last EDR Contact: 12/17/2007
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: 10/19/2008
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-594-2501
Last EDR Contact: 12/17/2008
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. 629) 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
Date Data Arrived at EDR: 01/08/2010
Date Made Active in Reports: 02/10/2010
Number of Days to Update: 35
Source: EPA
Telephone: 202-594-4203
Last EDR Contact: 11/01/2010
Next Scheduled EDR Contact: 02/14/2011
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
Date Data Arrived at EDR: 04/29/2010
Date Made Active in Reports: 05/17/2010
Number of Days to Update: 18
Source: Environmental Protection Agency
Telephone: 202-594-5088
Last EDR Contact: 12/23/2010
Next Scheduled EDR Contact: 04/11/2011
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PAOS: PCB Activity Database System
PCB Activity Database. PAOS 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
Date Data Arrived at EDR: 04/22/2010
Date Made Active in Reports: 06/09/2010
Number of Days to Update: 109
Source: EPA
Telephone: 202-596-6500
Last EDR Contact: 01/12/2011
Next Scheduled EDR Contact: 05/02/2011
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 6,100 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
Date Data Arrived at EDR: 04/08/2010
Date Made Active in Reports: 05/27/2010
Number of Days to Update: 51
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 12/13/2010
Next Scheduled EDR Contact: 03/28/2011
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
Date Data Arrived at EDR: 07/14/2010
Date Made Active in Reports: 08/09/2010
Number of Days to Update: 28
Source: Environmental Protection Agency
Telephone: 202-343-8776
Last EDR Contact: 01/13/2011
Next Scheduled EDR Contact: 04/25/2011
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 (Aerosol Information Retrieval System), DOCKET (Enforcement Docket used to merge 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), FRS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PAOS (PCB Activity Data System)

Date of Government Version: 04/14/2010
Date Data Arrived at EDR: 04/16/2010
Date Made Active in Reports: 05/27/2010
Number of Days to Update: 41
Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 12/10/2010
Next Scheduled EDR Contact: 03/28/2011
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administrative Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violations and includes administrative and civil actions brought by the EPA. For administrative 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
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35
Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 08/02/2008
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 (LOG) and Treatment, Storage, and Disposal Facilities

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 02/25/2010
Date Made Active in Reports: 05/12/2010
Number of Days to Update: 76

Source: EPA/NTIS
Telephone: 800-424-9348
Last EDR Contact: 11/30/2010
Next Scheduled EDR Contact: 03/07/2011
Data Release Frequency: Biennially

UIC: Underground Injection Wells Listing

A listing of underground injection well locations.

Date of Government Version: 09/21/2010
Date Data Arrived at EDR: 10/01/2010
Date Made Active in Reports: 10/22/2010
Number of Days to Update: 21

Source: Department of Health
Telephone: 800-588-4268
Last EDR Contact: 12/08/2010
Next Scheduled EDR Contact: 03/21/2011
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
Date Data Arrived at EDR: 07/13/2010
Date Made Active in Reports: 08/04/2010
Number of Days to Update: 22

Source: Department of Health
Telephone: 800-588-4200
Last EDR Contact: 01/10/2011
Next Scheduled EDR Contact: 04/25/2011
Data Release Frequency: Varies

AHS: List of Permitted Facilities

A listing of permitted facilities in the state

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 01/14/2011
Date Made Active in Reports: 01/24/2011
Number of Days to Update: 10

Source: Department of Health
Telephone: 800-588-4200
Last EDR Contact: 01/10/2011
Next Scheduled EDR Contact: 04/25/2011
Data Release Frequency: Varies

INDIAN RESERVE: 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
Date Data Arrived at EDR: 12/08/2008
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 01/21/2011
Next Scheduled EDR Contact: 05/02/2011
Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1988, 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: 08/31/2010
Date Data Arrived at EDR: 09/01/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 92

Source: Environmental Protection Agency
Telephone: 815-532-8589
Last EDR Contact: 12/13/2010
Next Scheduled EDR Contact: 02/07/2011
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
Date Data Arrived at EDR: 02/18/2009
Date Made Active in Reports: 05/29/2009
Number of Days to Update: 100

Source: Environmental Protection Agency
Telephone: 202-568-0517
Last EDR Contact: 11/10/2010
Next Scheduled EDR Contact: 02/14/2011
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH DOE: Steam-Electric Plant Operation Data

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

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 06/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8718
Last EDR Contact: 01/18/2011
Next Scheduled EDR Contact: 05/02/2011
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: 12/21/2010
Next Scheduled EDR Contact: 03/28/2011
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administered lands of the United States. Lands included are administered 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: 02/06/2008
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: 01/21/2011
Next Scheduled EDR Contact: 05/02/2011
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 waste oil, trash, 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 (oil 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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ORCAas Pipeline: 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: Redat Strategies Corp.

Telephone: (201) 785-7247

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

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: 312-290-5991

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: 301-594-4248

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 selected 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.

NWFI: National Wetlands Inventory: This data, available in selected 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 Geological 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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STREET AND ADDRESS INFORMATION

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GEOCHECK® - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

FORMER PUUNENE PIGGERY SITE
SOUTH FIRE BREAK ROAD
KIHU, HI 96753

TARGET PROPERTY COORDINATES

Latitude (North): 20° 8' 15.40" - 20° 48' 55.4"
Longitude (West): 155° 45' 28" - 156° 27' 10.1"
Universal Transverse Mercator Zone: 18
UTM X (Meters): 765121.4
UTM Y (Meters): 2303576.8
Elevation: 124 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map: 20155-G4 WAILUKU, 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).

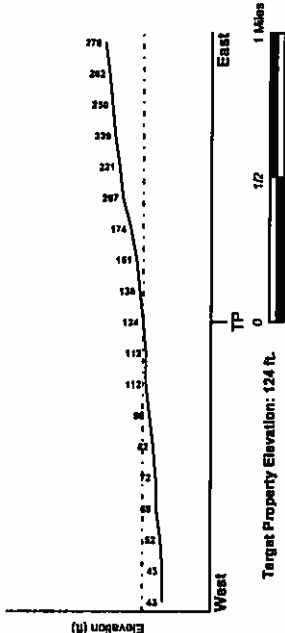
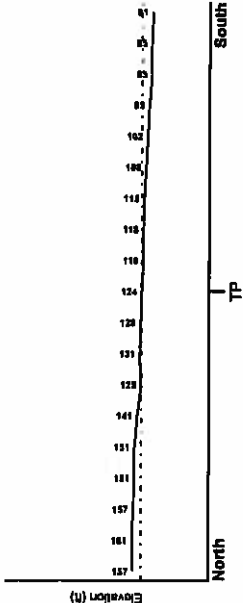
TOPOGRAPHIC INFORMATION

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 West

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

Target Property County: FEMA Flood Electronic Data
MAUI, HI YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 15000302558 - FEMA Q3 Flood data

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property: NWI Electronic Data Coverage
NOT AVAILABLE YES - refer to the Overview Map and Detail Map

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 data of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID: LOCATION: GENERAL DIRECTION:
Not Reported FROM TP: GROUNDWATER FLOW

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

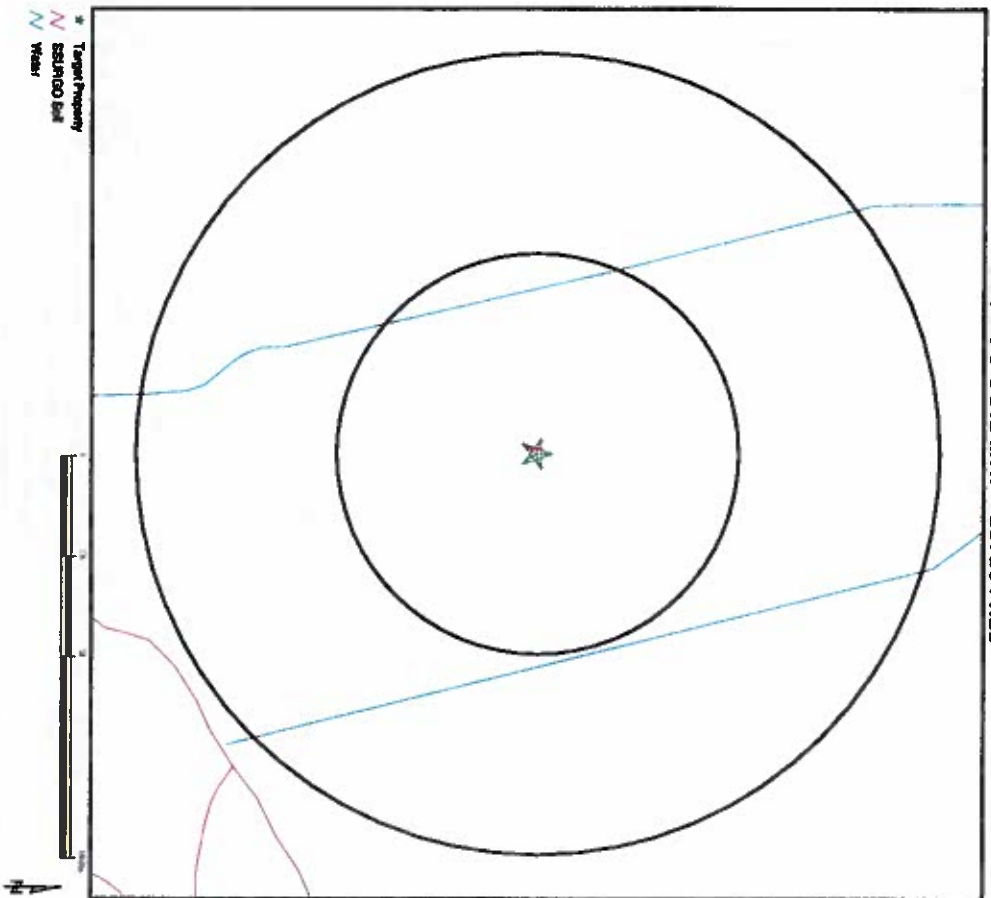
Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era: - GEOLOGIC AGE IDENTIFICATION
System: - Category:
Series: -
Code: N/A (decoded above as Era, System & Series)

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Continental 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 - 2872844.2s



SITE NAME: Former Puma Property Site
ADDRESS: South Pine Creek Road
LOCATION: 28.8154 / 158.4521

CLIENT: Ennio Bros. and Trng. Center
CONTACT: Shere Nakstern
INQUIRY #: 2872844.2s
DATE: January 24, 2011 12:28 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 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: Waukena

Soil Surface Texture: extremely stony silty clay loam

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: > 71 inches

Depth to Waterable Mire: > 0 inches

Soil Layer Information						
Layer	Boundary	Soil Texture Class	Classification	Saturated hydraulic conductivity (inches per hour)	Soil Reaction	
1	Upper	extremely stony silty clay loam	Not reported	Max: 0.42 Min: 0.02	Max: Min:	
2	Lower	extremely stony silty clay loam	Not reported	Max: 0.42 Min: 0.02	Max: Min:	
3	20 inches	stony silty clay loam	Not reported	Max: 0.42 Min: 0.02	Max: Min:	
4	27 inches	bedrock	Not reported	Max: 0.42 Min: 0.02	Max: Min:	

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

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

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1,000
Federal FROS PWS	Nearest PWS within 1 mile
State Database	1,000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION
No Wells Found		FROM TP

FEDERAL FROS PUBLIC WATER SUPPLY SYSTEM INFORMATION

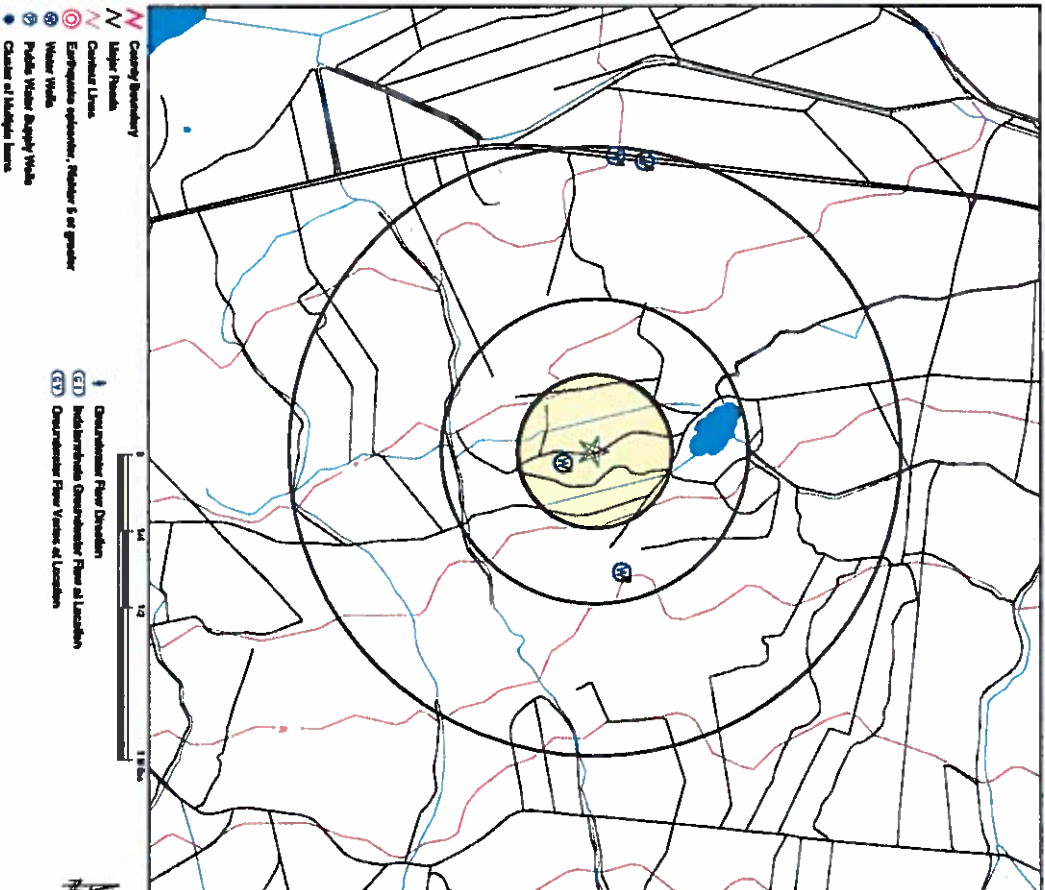
MAP ID	WELL ID	LOCATION
No PWS System Found		FROM TP

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

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION
1	HIS000000001176	0 - 1/8 Mile SSE
2	HIS000000001188	1/4 - 1/2 Mile ENE
3	HIS000000001191	1/2 - 1 Mile West
4	HIS000000001187	1/2 - 1 Mile West

PHYSICAL SETTING SOURCE MAP - 2972944.2s



SITE NAME: Former Painesville Piggy Bank ADDRESS: South First Street CITY: Painesville, OH 44130 COUNTY: Cuyahoga STATE: OH ZIP: 44130 DATE: 01/24/2011	CLIENT: Enbridge Energy Services Company CONTACT: Steve Neumann PHONE: 216-289-4425 DATE: January 24, 2011 12:28 pm
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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

[illegible]

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

[illegible]

GEOCHECK - PHYSICAL SETTING SOURCE MAP FINDINGS

Int'l head:	3.7	Not Reported	Int'l cl:	Not Reported
Test char:	Not Reported	Not Reported	Test gm:	Not Reported
Test date:	Not Reported	Not Reported	Test char:	Not Reported
Test lamp:	Not Reported	Not Reported	Temp unit:	414
Pump gm:	2000.00000		Draft mgt:	380
Head test:	4.3		Max char:	THO
Min char:	258		Strategy:	10/1/1973
Temp yr:	70		Draft yr:	Meat
Min yr:	73		Meat:	#####
Month yr:	73		Meat:	-3
Boil test:	Not Reported		Boil perf:	Not Reported
Boil sold:	Not Reported		Pump mgt:	2 980
Spec capax:	1.3		Augur:	60301
Draft mgt:	3.4-8-008.001		Old aqu:	Not Reported
Trnk:	60301		Latent lat:	4.30000
Aqud code:	Not Reported		Cur cl:	Not Reported
Cur head:	Not Reported		Wcr:	01/01/1942
Cur lamp:	Not Reported		Surveyor:	Not Reported
Pr:	Not Reported		Pump slwr:	Not Reported
T:	Not Reported		Site id:	H5000000001187

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for MAUI 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: 96753

Number of sites tested: 10

Area	Average Activity	% <= 4 pCi/L	% <= 20 pCi/L	% > 20 pCi/L
Living Area - 1st Floor	0.010 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 Geological Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2008. 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 Geological 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. A 2009 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NW1: 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[®] 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 data 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. Schuchert, R.E. Arndt and W.J. Basevis, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and N.M. Balman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service

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 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 Service (NRCS)

Telephone: 800-472-5555

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:100,000. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the origin of soil survey maps. This level of mapping is designed for use by landowners, landings 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: 809-587-0714

CWRII 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 RCRA 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, 800-457-6556

Episcience: 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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DEPARTMENT OF HEALTH
SOLID AND HAZARDOUS WASTE BRANCH
OFFICE OF SOLID WASTE MANAGEMENT
919 ALA MOANA BOULEVARD, SUITE 210
HONOLULU, HAWAII 96814
TEL. NO. (808) 586-7300 FAX NO. (808) 586-7309

COMPLAINT FORM

APPENDIX V
ADDITIONAL DOCUMENTATION

Complaint No.: 05-145

Referred by:	
Date of Referral	
Complainant:	
Address:	
Complaint Date:	<u>6/10/05</u>
Address/Location of Incident:	<u>Larry Bittencourt</u>
Type of Complaint:	<u>Big Farm Site (Camp 6, New Day Strip)</u>
	<u>Rubbish</u> ☐ <u>Used oil</u> ☐ <u>Batteries</u> ☐ <u>Tires</u> ☐ <u>Appliances</u> ☒
	<u>Junk vehicles</u> ☒ <u>C&D</u> ☐ <u>Compost</u> ☐ <u>Soil</u> ☐ <u>Others</u> ☐
Nature of Complaint:	<u>Being junk cars with seeds</u>
	<u>Jack Franks delivered truck seeds to this site</u>
Recommended Actions:	
Action Taken:	<u>Referral to Planning Dept. 220-3233 3/10/05</u>
Received by:	<u>Jan</u>
Assigned to:	
* Note: If field inspection is needed, attach pages 2 of this form.	

DEPARTMENT OF HEALTH
SOLID AND HAZARDOUS WASTE BRANCH
SOLID WASTE SECTION
919 ALA MOANA BOULEVARD, ROOM 212
HONOLULU, HAWAII 96814
TEL. NO. 586-4228 FAX NO. 586-7508

INSPECTION REPORT

FACILITY NAME: Poffenroth Piggery
INSPECTION DATE: August 18, 2005
PERMIT NUMBER: NA
ISSUED DATE: NA EXPIRATION DATE: NA
MAILING ADDRESS: Mr. Larry Poffenroth
P.O. Box 538
Puunene, HI 96784

Alexander & Baldwin, Inc. (property owner)
P.O. Box 156
Kahului, HI 96732
LOCATION ADDRESS: Off Mokulele Hwy
Waikapu, Maui
TMK: 38004001

PERSON CONTACTED: Mr. Larry Poffenroth
INSPECTOR AND TITLE: Todd Nichols, Environmental Health Specialist, SWS
Janice Fujimoto, Environmental Engineer, SWS
REPORT DATE: September 6, 2005

REASON FOR INSPECTION:

- ☐ ROUTINE
☐ COMPLIANCE SCHEDULE
☐ PERMIT REQUIREMENT
☐ VARIANCE CONDITION

Poffenroth Piggery
August 18, 2005
Page 2 of 3

COMPLAINT EXPLAIN: complaint 05-105 accepting white goods, bailing cars and white goods
☒ OTHER EXPLAIN
☐

Background: On 06/30/05 the SWS received a complaint that Larry Poffenroth was accepting white goods and bailing white goods and cars at his piggery.

OBSERVATIONS / FINDINGS:

On August 18, 2005, DOH inspected the site located off of Mokulele Highway, Waikapu, Maui, TMK: 38004001. Hawaii Department of Health inspectors Todd Nichols and Janice Fujimoto conducted the inspection. Mr. Larry Poffenroth accompanied the inspectors.

Poffenroth stated that he isn't bringing scrap metal onto the site and hasn't brought any metal onto the site in 2-3 yrs. Poffenroth showed the inspectors a number of things, such as portable pig pens, that he was building from old equipment. Poffenroth showed the inspectors a number of operational refrigerators that he was using to store food for pigs. Poffenroth showed the inspectors a large amount of canned food that was going to be fed to the pigs.

There was an approximately 500-1000 cubic yard pile of green waste at the site.

Poffenroth stated that in the past he had allowed some people to bring in green waste to the site as the pigs would eat coconuts in the green waste and the left over green waste created soil. Poffenroth stated that he doesn't allow green waste to be brought on site anymore after some people dumped some loads of C & D under a load of green waste. Some building/demo material such as roofing material and plywood was visible in the green waste.

There were a number of scrap tires at the piggery. Poffenroth stated that he wasn't bringing scrap tires onto the site and that the tires were from his operation.

Poffenroth stated that he was in the process of cleaning up the site and disposing of old equipment and materials. A bailer was at the site along with a shipping container. Poffenroth estimated that he will need a year to clean up the site.

POTENTIAL VIOLATIONS:

- ☒ HAWAII REVISED STATUTES
☒ HAWAII ADMINISTRATIVE RULES TITLE 11 CHAPTER 58.1 - Gen. 11-1
☐ COMPLIANCE SCHEDULE
☐ PERMIT CONDITION
☐ VARIANCE CONDITION
☐ OTHER
☐ NONE

CAUSE OF POTENTIAL VIOLATIONS:

Poffenroth, Piggy
August 18, 2008
Page 3 of 3

FOLLOW-UP NEEDED: YES (x) WHEN:
NO () WHY: letter of interest

LIST OF ATTACHMENTS:

Todd Nichols
Environmental Health Specialist



STATE OF HAWAII
DEPARTMENT OF HEALTH
P.O. BOX 538
HONOLULU, HAWAII 96820



November 27, 1998

S11302V8

CERTIFIED MAIL NO. Z 269 803 202
RETURN RECEIPT REQUESTED

Mr. Larry Poffenroth
P.O. Box 538
Punahoa, Hawaii 96784

Dear Mr. Poffenroth:

Subject: Unpermitted solid waste management operation located at two sites:
Central Mead Boneyard, Punahoa, Maui (auto salvage and scrap metals)
Hog Farm (scrap tires and metals)

On October 30, 1998, a solid waste inspection was conducted at the subject locations by the representatives of the Department of Health (DOH). We met with you to observe the on-going operation at the sites. During the course of the investigation, information was gathered in accordance with section 342H-6 (Inspection of Premises) of the Hawaii Revised Statutes.

It has been determined that there is evidence of violations of Title 11, Chapter 88.1 of the Hawaii Administrative Rules and the Hawaii Revised Statutes 342H Solid Waste Pollution, and the Integrated solid waste management plan for the State of Hawaii:

1. The operation of a solid waste salvage facility without a permit, in violation of Section 11-88.1-4. This section states that it is unlawful for any person to establish, modify, or operate any solid waste management facility or a part thereof or any extension or addition thereto without a permit issued. According to our records, it appears that you have been in operation for at least a year since the closure of your operation at the Amata Place. Approximately 1200 tons of scrap metals were moved to this site for storage. A permit application was mailed out to you for this new site. However, no permit application was ever received by the Department.
2. The operation of a materials recovery facility, in violation of Sections 11-88.1-32 and 11-88.1-33. This section regulates the operations of automobile dismantlers, scrap metals, white goods, and junkyards.
3. The improper management of solid waste materials, in violation of Sections 11-88.1-61(a) and 11-88.1-61(b). You failed to remove accumulated solid

Mr. Larry Poffenroth
November 27, 1988
Page 2

waste materials (e.g. used tires, used oil, white goods, and other scrap material) to an approved solid waste disposal facility.

In accordance with the Title 11, Chapter 88.1 of Hawaii Administrative Rules, the Department hereby orders you to cease and desist all salvaging operations. If you wish to continue operations you must first apply for a permit from this office, and clear up any violations from previous operations.

If we do not hear from you within 15 calendar days, we will initiate a formal Notice of Violation (NOV). Further operations will result in violations and such violations may be punishable by civil actions, including penalties of up to \$10,000 per day for each violation as provided by HRS section 342H-8.

Any deficiencies noted are not necessarily inclusive and any omissions in this letter shall not be construed as a determination of compliance with any applicable laws. Also, any omission to cite any other violations is not intended to nor shall be binding upon the DOH.

Your response to this letter, due within 15 days of your receipt of this letter, shall be mailed to:

Mr. John Harder, Coordinator
Office of Solid Waste Management
Solid and Hazardous Waste Branch
Department of Health
919 Ala Moana Boulevard, Room 210
Honolulu, Hawaii 96814

Please use the permit application material given to you during the inspection. Should you have any questions, please contact Mr. Edgar Salvo of my staff at (808) 598-4240.

Sincerely,

John Harder

JOHN HARDER, Coordinator
Office of Solid Waste Management

JH:EV8:mz

cc: Kathleen Ho, Office of the Attorney General
C. Earl Storer, Jr., S&P Land Company, Inc., 323 Dairy Road, Kaneohe, Hawaii 96732
David W. Blum, Planning Department, County of Maui
Anita Hironaka, Solid Waste Division, County of Maui
Hans Staud, Solid Waste Division, County of Maui
Philip Chin, District Land Agent/Mail District Land Management, DLNR
Roland Toljano, Wastewater Branch, DOH-Maui

→ copy to Frank's Outcomes



DEPARTMENT OF HEALTH
OFFICE OF SOLID WASTE MANAGEMENT

STATE OF HAWAII
DEPARTMENT OF HEALTH
1110 KALANANAKU DRIVE
HONOLULU, HAWAII 96813

May 5, 1989

900502EV8

CERTIFIED MAIL NO. 2 408 888 867
RETURN RECEIPT REQUESTED

WARNING LETTER

Mr. Larry Poffenroth
P.O. Box 539
Pauwahi, Hawaii 96784

Dear Mr. Poffenroth:

Subject: Closure of Two Solid Waste Management Sites:
Central Maui Bayside, Pauwahi, Maui (auto salvage and scrap metals)
Hog Farm (scrap tires and metals)

This is to follow up on our letters dated November 27, 1988, and December 23, 1988, regarding the closure of two illegal solid waste management operations at the above-referenced sites.

Except for the information and photographs of the Central Maui Bayside provided by S&P Land Company, Inc., we have not received any response from you to indicate that the terms and conditions specified in our December 23, 1988, letter have been satisfied and completed. Under the authority of Chapter 342H of the Hawaii Revised Statutes and Chapter 88.1 of the Hawaii Administrative Rules:

1. An assessment of the site's present and future threat to public health and the environment due to contaminants generated during the illegal operation. The assessment may include soil sampling and testing within and adjacent to the property. A qualified environmental consultant shall conduct the site assessment. The site assessment report shall be submitted to the Department within thirty (30) calendar days of final site closure.
2. Solid waste disposal records (i.e. invoices, manifests) of material hauled from the subject sites to a permitted disposal facility. The records and/or receipts shall indicate the date, time, quantity, and type of materials delivered to the permitted disposal facility. A copy of disposal records shall be submitted to the Department within thirty (30) calendar days of final site closure.

If items 1 and 2 are not accomplished, the Department may institute an administrative or civil action in the name of the State of Hawaii for current and prior violations.

SEP 22 2005

LANDS LIAISON
OFFICE OF HAWAII



STATE OF HAWAII
DEPARTMENT OF HEALTH
P.O. BOX 3379
HONOLULU, HAWAII 96811-3379

CERTIFIED MAIL NO. 7005 1160 0003 8276 4707
RETURN RECEIPT REQUESTED

Mr. Larry Poffenroth
P.O. Box 538
Puunene, Hawaii 96784

September 19, 2005

S0926TTN

CERTIFIED MAIL NO. 7005 1160 0003 8276 4707
RETURN RECEIPT REQUESTED

LETTER OF INTEREST

Mr. Larry Poffenroth
P.O. Box 538
Puunene, Hawaii 96784

Dear Mr. Poffenroth:

SUBJECT: Accumulation of Solid Waste,
TMK 38004001, Waikapu, Maui

On August 18, 2005, in response to a complaint, the Department of Health, Solid Waste Section (SWS), inspected your piggery located at the subject site and noted an accumulation of solid waste such as scrap metal, green waste, construction and demolition waste, and scrap tires. It is our understanding that the tires came from your vehicles or equipment, that the scrap metal was accumulated years ago, and that the construction waste was deposited at your piggery without your knowledge or consent. It is also our understanding that you are in the process of cleaning up the piggery and will need a year to complete the cleanup.

As the property owner and/or operator, you have the responsibility to properly manage and dispose of accumulated solid wastes. This responsibility is stated in the Hawaii Administrative Rules (HAR), Title 11, Chapter 58.1, which provides:

- (a) The aesthetic, nonhazardous, and sanitary storage of solid waste is the responsibility of the person owning, operating, or managing the property, premises, business establishment, or industry where the solid waste is accumulated
- (b) Any person owning, operating, or managing a property, premise, business establishment, or industry has the responsibility of removing accumulated solid waste to an approved solid waste disposal facility. Contractual or other arrangements for the removal of accumulated solid waste shall not relieve a person of this primary responsibility as stated above. Solid waste shall be removed to an approved solid waste disposal facility, prior to creating a nuisance condition or health or safety hazard.

Mr. Larry Poffenroth
May 5, 1988
Page 2

Your response to this letter, due to the DOH within thirty (30) calendar days of your receipt of this letter, shall be mailed to:

Mr. Steven Y.K. Chang, P.E., Chief
Solid and Hazardous Waste Branch
Department of Health
819 Ala Moana Boulevard, Room 210
Honolulu, Hawaii 96814

Should you have any questions, please contact Mr. Edgar Salas at (808) 586-4240.

Sincerely,

STEVEN Y.K. CHANG, P.E., CHIEF
Solid and Hazardous Waste Branch

cc: Kathleen Ho, Office of the Attorney General
C. Earl Stoner, Jr., S&F Land Company, Inc., 333 Dairy Road, Kahului, HI 96732
Steve Haisala, A & B Properties, 33 Lane Avenue, Kahului, HI 96732
David W. Stone, Planning Department, County of Maui
Andy Hirose, Solid Waste Division, County of Maui
Hana Steel, Solid Waste Division, County of Maui
Philip Ohta, District Land Agent/Maui District Land Management, DLNR
Roland Tejano, Wastewater Branch, DOH-Haui

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Mr. Larry Poffenroth
September 19, 2005
Page 2

Therefore, the SWS is requesting that you complete the removal and property disposal of solid waste, including but not limited to scrap metal, construction waste, and scrap tires, within one year of your receipt of this letter.

Any deficiencies that may be noted in this letter are not necessarily inclusive and any omissions shall not be construed as a determination of compliance with any applicable laws. Also, any omission to cite other violations is not intended to nor shall be binding upon the DOH. Please mail a response within thirty (30) calendar days of your receipt of this letter to:

Steven Y.K. Chang, P.E., Chief
Solid and Hazardous Waste Branch
Department of Health
819 Ala Moana Boulevard, Room 212
Honolulu, Hawaii 96814

Should you have any questions regarding this letter, please call Mr. Todd Nichols of our Solid Waste Section at (808) 586-4226.

Sincerely,


STEVEN Y.K. CHANG, P.E., CHIEF
Solid and Hazardous Waste Branch

c: Alexander & Baldwin, Inc.

LARRY LINGLE
DIRECTOR OF HEALTH



STATE OF HAWAII
DEPARTMENT OF HEALTH
P.O. BOX 207
HONOLULU, HAWAII 96810-0207

May 6, 2010

Mr. Sean M. O'Keefe
Director, Environmental Affairs
Alexander & Baldwin, Inc.
P.O. Box 266
Puuuene, Hawaii 96794

Dear Mr. O'Keefe:

SUBJECT: Solid Waste Management Permit Application, Exemption Request
Cleanup of Former Poffenroth Piggery
Located at: TMK No. (2) 3-8-008-019, Puuene, Maui, Hawaii

The Department of Health (DOH), Solid and Hazardous Waste Branch, Solid Waste Section received your solid waste management permit exemption request for the subject site, dated April 13, 2010. According to your request, we understand you obtained an order from the U.S. Bankruptcy Court, District of Hawaii to remove scrap metal from the premises formerly occupied by Mr. Poffenroth. We further understand your cleanup operations, to be completed by a contractor, will include the following:

1. Cleanup operations will include on-site processing of scrap metal, scrap vehicles, and other mobile equipment. The site contains approximately 150-200 scrap vehicles and equipment.
2. Processing will likely include the removal of tires, batteries, automotive fluids, oil filters, refrigerant, mercury switches, and other hazardous materials. Processed vehicles may be crushed/baled onsite.
3. The contractor will be required to adhere to Best Management Practices (BMPs) for processing, crushing, and handling of scrap metal and scrap vehicles/equipment. BMPs shall include: processing/crushing only in designated paved areas, providing and maintaining proper storage containers and secondary containment for fluids, batteries, and other hazardous materials, properly disposing of all materials removed during processing operations, and prompt corrective actions to address any spills and leaks.
4. Cleanup operations shall be completed within approximately four (4) months.

MAY 06 2010

facty file
DANIEL L. FARMER, M.D.
DIRECTOR OF HEALTH

117
117
117

S0504.JF

Mr. Sean M. O'Keefe
May 6, 2010
Page 2

5. Alexander & Baldwin, Inc. plans to conduct a comprehensive site assessment and, if necessary, remediation to address any environmental impacts from the past solid waste-related operations.

Based on this understanding of your operation, the director has determined that your facility is a minor source under Hawaii Administrative Rules 11-58.1-04(b)(5), and exempt from solid waste management permitting requirements. The minor source exemption is granted based on your involvement as a property owner, rather than operator of the solid waste management facility, the limited duration of the cleanup, and the BMPs/oversight you intend to provide for the operations.

Please provide the DOH with written documentation within thirty (30) days of conclusion of your cleanup operations. Written documentation shall include a description of waste removed from the site, quantities, and recycling/disposal location. Waste shall only be transported to the DOH-permitted facilities allowed to accept such waste.

Please also submit the findings of your comprehensive site assessment, as well as any work plans and analytical reports associated with your study. If contamination is identified at unacceptable levels, you will be required to remediate the site and submit associated documentation to the DOH.

If you have any questions regarding this letter, please contact Ms. Janice Fujimoto of the Solid and Hazardous Waste Branch at (808) 586-4228.

Sincerely,


STEVEN Y.K. CHIANG, P.E., ACTING CHIEF
Environmental Management Division

ENVIRONMENTAL ASSESSMENT QUESTIONNAIRE

DATE: MARCH 6, 2011

JOB NAME: PROPERTY ENVIRONMENTAL SITE ASSESSMENT

FACILITY NAME & ADDRESS: FORMER POFERBLOTH PROPERTY, PUNAH, MAUI, HAWAII

1. NAME/TITLE/PHONE NUMBER OF PERSON COMPLETING FORM: SEAN M. O'KEEFE, DIRECTOR, ENVIRONMENTAL AFFAIRS, ALEXANDER & BALDWIN, INC. (808) 577-2959
2. JOB DESCRIPTION/YEARS KNOWLEDGE OF SITE: RESPONSIBLE FOR ENVIRONMENTAL COMPLIANCE AND OTHER ENVIRONMENTAL ISSUES RELEVANT TO THE COMPANY'S OPERATIONS. FAMILIAR WITH THE SITE SINCE APPROXIMATELY 1995.
3. REASON FOR CONDUCTING PHASE I ESA: POSSIBLE SALE OF THE PROPERTY
4. HOW LONG HAS THE FACILITY BEEN THERE? THE PROPERTY WAS USED AS A PIG FARM SINCE THE 1960's, AND WAS ADDITIONALLY USED FOR UNPERMITTED SOLID WASTE MANAGEMENT ACTIVITIES SINCE APPROXIMATELY 1995.

WHAT WAS THERE BEFORE? PRIOR TO THE PROPERTY USE, THE PROPERTY WAS PARTLY USED FOR CULTIVATION OF SUGARCANE AND ALSO AS A PLANTATION CAMP. PRIOR TO THAT USE, THE PROPERTY WAS PART OF THE PUNAH NAVAL AIR STATION.
5. ARE THERE ANY PERMITS FROM THE COUNTY, STATE, OR FEDERAL GOVERNMENT FOR OPERATION OF THE FACILITY? NONE KNOWN.
6. WHAT IS THE SOURCE OF WATER? (COUNTY / WELL / CATCHMENT) COUNTY WATER FOR DOMESTIC WATER. THERE IS ALSO A NON-POTABLE WATER WELL ON THE PROPERTY.
7. WHAT TYPE OF SEWER SYSTEM IS PRESENT? (CESSPOOL / INJECTION WELL / COUNTY SYSTEM) BUILDINGS ON THE PROPERTY WERE MOST RECENTLY SERVED BY CESSPOOLS, WHICH HAVE BEEN FILLED IN. DURING MILITARY USE OF THE PROPERTY THERE WAS A SEWER SYSTEM WHICH APPARENTLY DISCHARGED INTO LARGE SEPTIC SYSTEMS.

IS THE WATER TREATED? NO
8. ARE THERE ANY FLOOD DRAINS OR SUMPS ON THE PROPERTY? NONE TO MY KNOWLEDGE.

- CYANIDE WASTES: NONE KNOWN
- ACID/BASES: ACIDS PRESENT IN BATTERIES STORED ON THE SITE BY THE FORMER TENANT.
- SOLVENTS (CLEANSERS, DISOLVERS, PAINT THINNER, ETC.): PAINTS WERE FOUND ON THE SITE, SO PAINT THINNERS WERE LIKELY USED BY THE PRIOR TENANT.
- OILS / LUBRICANTS (WASTE OIL): WASTE OIL WAS GENERATED AND STORED BY THE FORMER TENANT.
- ANY OTHER WASTES? SCRAP METAL, GREEN WASTE, FOOD WASTE, CONSTRUCTION AND DEMOLITION WASTE, PROPERTY-RELATED WASTES, HAZARDOUS WASTES, USED LIGHT BULBS, USED CRT'S WERE ALL GENERATED OR STORED ON THE SITE BY THE FORMER TENANT.
12. HAS ANY WASTE OR RUBBISH BEEN BURIED ON THE PROPERTY? IF SO, WHERE IS THE WASTE / RUBBISH BURIED AND WHAT KIND OF WASTE WAS DISPOSED OF? RUBBISH ASSOCIATED WITH FEEDING OF PIGS (PRIMARILY FOOD WRAPPERS AND CONTAINERS) WAS INCIDENTALLY DISPOSED ON THE SURFACE AROUND THE SITE AND IN SOME CASES WAS PARTIALLY BURIED UNDER ROCK PILES AROUND THE SITE. ALL AREAS WHERE BURIED WASTE WAS KNOWN OR SUSPECTED TO BE PRESENT HAVE BEEN EXCAVATED AND THE WASTE PROPERLY DISPOSED OF.
13. HAS ANY WASTE OR RUBBISH BEEN BURIED ON THE PROPERTY? IF SO, WHAT KIND OF WASTE WAS BURIED AND WHERE WAS THE WASTE BURIED? DEAD PIGS ARE KNOWN TO HAVE BEEN BURIED ON THE PROPERTY.
14. ARE THERE ANY CLARIFIERS, PROCESSORS, OR INSTALLATION OR NEUTRALIZATION UNITS? WHAT SUBSTANCES ARE USED/PRODUCED BY THEM? NONE KNOWN
15. ARE THERE ANY GAS OR SERVICES STATIONS ON THE PROPERTY OR ANY ADJOINING PROPERTIES? NONE KNOWN, THOUGH THERE MAY HAVE BEEN SUCH FACILITIES ON THE ADJOINING MILITARY BASES AT ONE TIME.
16. IS THERE A MAINTENANCE SHOP ON THE PROPERTY? IF SO, WHAT KIND OF ACTIVITIES TAKE PLACE THERE? A MAINTENANCE SHOP WAS OPERATED ON THE PROPERTY BY THE FORMER TENANT. ACTIVITIES INCLUDED REPAIRS AND MAINTENANCE TO VEHICLES AND HEAVY EQUIPMENT.

WHAT DO THEY DEAL?

WHERE DO THEY DISCHARGE?

9. ARE THERE ANY ELECTRICAL TRANSFORMERS ON THE PROPERTY? (DISCLOSED OR POLE-MOUNTED) NONE TO MY KNOWLEDGE; MECO SERVICES TO THE PROPERTY HAS BEEN TERMINATED.

WHO OWNS THE TRANSFORMERS, IF ANY?

HAVE THEY BEEN TESTED FOR PCBs?

10. ARE THERE ANY ABOVE GROUND AND/OR UNDERGROUND STORAGE TANKS? NONE TO MY KNOWLEDGE.

SIZE	CONTENT	AGE	REGISTERED W/D/DH?	HAVE THEY LEAKED?

11. DOES THE FACILITY USE OR HAS THE FACILITY USED ANY OF THE FOLLOWING MATERIALS? HOW MUCH DOES/DID THE FACILITY GENERATE?

PESTICIDES / HERBICIDES: HERBICIDES ARE USED IN THE CULTIVATION OF SUGARCANE ON THE PROPERTY. OTHER PESTICIDES ARE BELIEVED TO HAVE BEEN USED BY THE PAST AGRICULTURAL OPERATIONS, BASED ON PESTICIDE CONTAINERS FOUND ON THE PROPERTY WHEN THE FORMER TENANT VACATED.

FERTILIZERS: FERTILIZERS ARE USED IN THE CULTIVATION OF SUGARCANE ON THE PROPERTY AND MAY HAVE BEEN USED BY PAST AGRICULTURAL OPERATIONS.

PCBs: NONE KNOWN EXCEPT THAT FLUORESCENT LIGHT BALLASTS REMOVED FROM STRUCTURES AT THE SITE WERE PRESUMED TO CONTAIN PCBs IN CASES WHERE LABELS WERE MISSING OR ILLEGIBLE, OR DID NOT HAVE THE WORDS "NO PCBs"

HEAVY METALS: POTENTIAL CONTAMINANTS IN WASTES MANAGED ON THE PROPERTY (E.G., BATTERIES, LIGHT BULBS, USED CRTs).

ASBESTOS: ASBESTOS WAS PRESENT IN BUILDINGS FORMERLY LOCATED ON THE PROPERTY THAT HAVE BEEN DEMOLISHED. ASBESTOS IS ALSO PRESENT IN WATER SYSTEM PIPING FORMERLY SERVING THE MILITARY STRUCTURES AND APPARENTLY STILL IN PLACE ON THE PROPERTY.

17. ARE THERE ANY WASTE OR CHEMICAL PIPELINES ON THE PROPERTY? THE SEWAGE SYSTEM WHICH FORMERLY SERVED BUILDING ASSOCIATED WITH THE FORMER MILITARY BASED IS LIKELY STILL IN EXISTENCE. THERE ARE NO KNOWN CHEMICAL PIPELINES.

18. ARE YOU AWARE OF ANY CONTAMINATION OR WASTE DISPOSAL AREAS ON THE PROPERTY OR NEARBY PROPERTIES? THE PROPERTY WAS USED AS AN UNPERMITTED SOLID WASTE MANAGEMENT FACILITY BY THE FORMER OCCUPANT. CONTAMINATION MAY HAVE RESULTED FROM THESE ACTIVITIES AND IS BEING INVESTIGATED. THERE ARE KNOWN WASTE DISPOSAL AREAS AND AREAS OF CONTAMINATION ON ADJACENT PROPERTIES WHICH WERE FORMERLY PART OF THE MILITARY INSTALLATION.

19. IS THERE ANY RUNOFF FROM ADJACENT PROPERTIES ONTO THE PROPERTY? NONE TO MY KNOWLEDGE.

20. IS THE PROPERTY OR ANY ADJACENT PROPERTY USED FOR INDUSTRIAL USE? THE HAWAIIAN CEMENT QUARRY IS NEARBY, AS IS THE CENTRAL MAUI BASTYARD. THE MAJORITY OF SURROUNDING LANDS ARE USED FOR SUGARCANE CULTIVATION.

21. HAS THE PROPERTY OR ANY ADJACENT PROPERTY BEEN USED FOR INDUSTRIAL USE IN THE PAST? THE PROPERTY WAS USED AS AN UNPERMITTED SOLID WASTE MANAGEMENT FACILITY BY THE FORMER TENANT.

22. IS THE PROPERTY OR ADJACENT PROPERTY USED AS A GASOLINE STATION, MOTOR REPAIR FACILITY, COMMERCIAL PRINTING FACILITY, DRY CLEANERS, PHOTO DEVELOPING, LABORATORY, RUNCYARD OR LANDFILL, OR AS A WASTE TREATMENT, STORAGE, DISPOSAL, PROCESSING, OR RECYCLING FACILITY? NO SUCH USES ARE KNOWN CURRENTLY.

IN THE PAST? THE PROPERTY WAS USED AS AN UNPERMITTED SOLID WASTE MANAGEMENT FACILITY BY THE FORMER TENANT. ACTIVITIES ON THE SITE INCLUDED REPAIR AND MAINTENANCE OF VEHICLES AND EQUIPMENT.

23. ARE THERE CURRENTLY, OR TO THE BEST OF YOUR KNOWLEDGE HAVE THERE BEEN PREVIOUSLY, ANY DAMAGED OR DISCARDED AUTOMOTIVE OR INDUSTRIAL BATTERIES, OR PESTICIDES, PAINTS, OR OTHER CHEMICALS IN INDIVIDUAL CONTAINERS OF GREATER THAN 5 GAL (19 L) IN VOLUME OR 50 GAL (190 L) IN THE AGGREGATE, STORED ON OR USED AT THE PROPERTY OR THE FACILITY? YES TO ALL. MOST SUCH MATERIALS HAVE ALREADY BEEN DISPOSED OF. SOME SUCH MATERIALS (ONE

DRUM CONTAINING BROKEN AUTOMOTIVE BATTERIES, ONE DRUM CONTAINING WASTE PAINT) ARE CURRENTLY IN STORAGE PENDING DISPOSAL ARRANGEMENTS.

24. ARE THERE CURRENTLY, OR TO THE BEST OF YOUR KNOWLEDGE HAVE THERE BEEN PREVIOUSLY, ANY INDUSTRIAL DRUMS TYPICAL 55 GAL (208 L) OR BAGS OF CHEMICALS LOCATED ON THE PROPERTY OR THE FACILITY? YES. ALL SUCH MATERIALS HAVE BEEN PROPERLY DISPOSED OF EXCEPT AS NOTED ABOVE.

25. ARE THERE CURRENTLY, OR TO THE BEST OF YOUR KNOWLEDGE HAVE THERE BEEN PREVIOUSLY, ANY PITS, PONDS, OR LAAGOONS LOCATED ON THE PROPERTY IN CONNECTION WITH TREATMENT OR WASTE DISPOSAL? WASTE LAAGOONS WERE OPERATED AS PART OF THE PROPERTY OPERATIONS. THESE RECEIVED ANIMAL WASTE.

26. TO THE BEST OF YOUR KNOWLEDGE HAVE THERE BEEN PREVIOUSLY, ANY REGISTERED STORAGE TANKS (ABOVE GROUND AND/OR UNDERGROUND) LOCATED ON THE PROPERTY? NONE KNOWN. UNREGISTERED AST-1 AND MOBILE TANK TRUCKS/TRAILERS WERE PRESENT DURING PUFFERBOTH'S OCCUPANCY OF THE PROPERTY, SOME OF WHICH WERE USED FOR PETROLEUM STORAGE. THESE WERE ALL CLEANED AND/OR CONTAINED TO BE FREE OF PETROLEUM PRODUCTS AND COMBUSTIBLE VAPORS PRIOR TO DISPOSAL AS SCRAP METAL.

27. ARE THERE CURRENTLY, OR TO THE BEST OF YOUR KNOWLEDGE HAVE THERE BEEN PREVIOUSLY, ANY VENT PIPES, FILL PIPES PROTRUDING FROM THE GROUND ON THE PROPERTY OR ADJACENT TO ANY STRUCTURE ON THE PROPERTY? NONE KNOWN.

28. DOES THE PROPERTY DISCHARGE WASTEWATER ON OR ADJACENT TO THE PROPERTY OTHER THAN STORMWATER INTO A SANITARY SEWER SYSTEM? NO.

29. ARE YOU AWARE OF ANY ENVIRONMENTAL CLEANUP LIENS AGAINST THE PROPERTY THAT ARE FILED OR RECORDED UNDER FEDERAL, TRIBAL, STATE OR LOCAL LAW? No.

30. ARE TITLE RECORDS AVAILABLE? If so, please provide ETC with copies of these records. I believe these have already been provided.

31. CONTACT INFORMATION - Please provide contact information (name, phone number, etc.) for the following individuals if available.

SUBJECT PROPERTY MANAGER: JASON KODA, A&B PROPERTIES, INC. (808) 877-4645

SUBJECT PROPERTY OCCUPANT: None

SUBJECT PROPERTY OWNER: A&B PROPERTIES, INC. Use contact information above.

32. ARE YOU AWARE OF ANY ACTIVITY AND LAND USE LIMITATIONS (AULs), SUCH AS ENFORCEMENT CONTROLS, LAND USE RESTRICTIONS OR INSTITUTIONAL CONTROLS THAT ARE IN PLACE AT THE SITE AND/OR HAVE BEEN FILED OR RECORDED IN A REGISTRY UNDER FEDERAL, TRIBAL, STATE OR LOCAL LAW? None to my knowledge.

33. AS THE USER OF THIS ENVIRONMENTAL SITE ASSESSMENT (ESA) DO YOU HAVE ANY SPECIALIZED KNOWLEDGE OR EXPERIENCE RELATED TO THE PROPERTY OR NEARBY PROPERTIES? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes by this type of business? As a representative of the property owner, I have specialized knowledge regarding this property and nearby properties, which has been conveyed to the environmental professional in this questionnaire and at other times during and preceding the assessment.

34. DOES THE PURCHASE PRICE BEING PAID FOR THIS PROPERTY REASONABLY REFLECT THE FAIR MARKET VALUE OF THE PROPERTY? If you conclude that this is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property? To the best of my knowledge, the purchase price for this property reflects the fair market value of the property.

35. AS YOU AWARE OF COMMONLY KNOWN OR REASONABLY ASCERTAINABLE INFORMATION ABOUT THE PROPERTY THAT WOULD HELP THE ENVIRONMENTAL PROFESSIONAL TO IDENTIFY CONDITIONS INDICATIVE OF RELEASES OR THREATENED RELEASES? For example, as the user,

36. DO YOU KNOW THE PAST USES OF THE PROPERTY? Yes, as described above and previously described to the environmental professional.

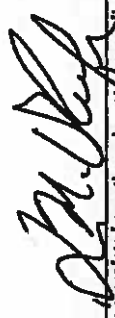
37. DO YOU KNOW OF SPECIFIC CHEMICALS THAT ARE PRESENT OR ONCE WERE PRESENT AT THE PROPERTY? Yes, as described above and previously described to the environmental professional.

38. DO YOU KNOW OF SPILLS OR OTHER CHEMICAL RELEASES THAT HAVE TAKEN PLACE AT THE PROPERTY? Yes, as previously described to the environmental professional.

39. DO YOU KNOW OF ANY ENVIRONMENTAL CLEANUPS THAT HAVE TAKEN PLACE AT THE PROPERTY? Yes, as previously described to the environmental professional.

40. AS THE USER OF THIS ESA, BASED ON YOUR KNOWLEDGE AND EXPERIENCE RELATED TO THE PROPERTY ARE THERE ANY OBVIOUS INDICATORS THAT POINT TO THE PRESENCE OR LIKELY PRESENCE OF CONTAMINATION AT THE PROPERTY? None to my knowledge with the exception of the minor releases of petroleum and the potential for contaminants related to past operation of an unpermitted solid waste management facility. An investigation for such contamination is ongoing.

41. ANY ADDITIONAL CONCERNS REGARDING THE PROPERTY OR ANY ADJOINING PROPERTIES? NONE NOT PREVIOUSLY DISCLOSED.

SIGNATURE 
**Please see completed questionnaire at your earliest convenience to:
Ms. Sharita Nickszina
Bank/Servicio & Training Center, LLC
503 Ward Avenue, Suite 202, Honolulu, Hawaii
tel: 808-7722 fax: 808-4453

APPENDIX VI
QUALIFICATIONS OF THE ENVIRONMENTAL PROFESSIONAL

DATE 3/11/11

PROFESSIONAL QUALIFICATIONS

Name: Sharla M. Nakashima
Title: Environmental Scientist
Education: BS, Chemistry, University of Hawaii at Manoa, 2000
Training: OSHA 40 Hour HAZWOPER
DOT Hazardous Materials Handling
Experience: EnviroServices & Training Center, LLC, Environmental Chemist, 2000 to Present.
University of Hawaii, Chemistry Department, Graduate Research Assistant, 2000.

Ms. Nakashima's primary responsibilities are conducting Phase I and II environmental site assessments. She is also the lead person to conduct data QA/QC/validation/reduction. Ms. Nakashima possesses experience in operating global positioning system (GPS) instrumentation and conducting hazardous materials inventories/classifications/segregations/compatibility determinations.

PAST PROJECT EXPERIENCE

Sharla M. Nakashima

Phase I Environmental Site Assessments on the Islands of Oahu, Maui, Kauai, Hawaii, Lanai: Environmental Professional. Ms. Nakashima has conducted numerous Phase I environmental site assessments throughout the State of Hawaii in accordance with generally accepted Phase I industry protocol as described in the ASTM E-1527 standard and to satisfy "all appropriate inquiry" as defined in 42 United States Code (U.S.C.) §9601(35)(B). Work sites included commercial, industrial, agricultural, condemned, and residential land ranging in size from small properties (less than 2.0 acres) to larger properties (greater than 300.0 acres).

Phase II Environmental Site Assessments/Site Screening Assessments on the Islands of Oahu, Maui, Kauai, Hawaii, Lanai; Project Manager. Ms. Nakashima has performed numerous Phase II environmental site assessments and site screening assessments throughout the State of Hawaii. Projects included surface soil investigation utilizing both multi-incremental and discrete sampling protocols and subsurface soil/groundwater investigations using hand tools, direct-push rig, and hollow-stem augering techniques. Contaminants investigated included petroleum/petroleum-related compounds, heavy metals, pesticides/herbicides, PCBs, and dioxins/furans.

Phase II Environmental Site Assessments/Site Screening Activities; GPS Team Leader. Ms. Nakashima utilized Trimble Navigation Global Positioning System (GPS) instrumentation and Geographical Information Systems (GIS) applications for numerous projects to identify/locate pre-determined sample locations, document sample locations or site features, and/or identify property limits. GIS data obtained were incorporated in both the planning and reporting phases of applicable projects.

Underground Storage Tank (UST) Closure and Release Responses; Environmental Scientist. Ms. Nakashima has closed numerous UST systems throughout the State of Hawaii. Closure and release response activities were performed in accordance with Hawaii Administrative Rules 11-281. Duties included coordination and management of various subcontractors, documentation of closure (both removal and close in place), release assessment sample collection, site remediation, waste profiling/packaging/disposal, communication with State regulators, and report preparation.

Voluntary Response Program (VRP) Site Assessment and Remediation; Environmental Scientist/Project Manager. Ms. Nakashima has served as both environmental scientist and project manager on several VRP projects on the Island of Oahu. Ms. Nakashima worked on all phases of the VRP, including project scoping, planning, document preparation, field sampling, data assessment, contaminated media removal/remediation, confirmation sampling, and report preparation. Contaminants addressed included petroleum/petroleum-related compounds, heavy metals, pesticides/herbicides, PCBs, and dioxins/furans.

Industrial Wastewater Discharge Permitting (IWDPP); Environmental Scientist. Ms. Nakashima acquired an IWDPP which authorized the facility to discharge industrial wastewater into the City and County of Honolulu's publicly owned treatment works (POTW) under Chapter 14 of the Revised Ordinances of Honolulu.

Underground Injection Control (UIC) Permitting; Environmental Scientist. Ms. Nakashima acquired a UIC permit for two dry wells located at a car rental facility in Kona, Hawaii. Work included investigation and application procedures required by the Hawaii Department of Health-Safe Drinking Water Branch.

Hazardous Materials Inventory; Environmental Chemist. Ms. Nakashima conducted a hazardous materials survey at over sixty (60) public intermediate and high schools on the islands of Oahu, Kauai, Maui, Molokai, Lanai and Hawaii. Work included identification and categorizing of over 30,000 hazardous materials, conducting photographic documentation, and determining NEPA labeling requirements for classroom storage areas potentially containing hazardous materials.

Household Hazardous Waste (HHW) Collection; Environmental Scientist. Ms. Nakashima assisted with the collection of HHW in Honolulu, Lahaina, Wailuku, Hilo, and Kona. Tasks included identification, packaging, labeling, transportation and disposition of HHW in accordance with OSHA, EPA, and DOT protocol.

Hazardous Waste Characterization and/or Disposal, Environmental Scientist. Ms. Nakashima assisted in the disposal of various chemicals and hazardous wastes at an abandoned laboratory in Waimanalo, Oahu. Additional sites included several public intermediate and high schools. Tasks included identification, packaging, labeling, transportation and disposition of hazardous waste in accordance with OSHA, EPA, DOT, and local regulations.

Asbestos Air-Monitoring, City and County - Department of Agriculture, Environmental Scientist. Ms. Nakashima assisted and/or conducted air monitoring using low volume sampling pumps during asbestos abatement activities.

Laboratory Studies, Research Assistant. Ms. Nakashima conducted studies of protein conformational dynamics through photothermal methods and purified horse heart myoglobin within thin layered polymer slides and organic solvents. Lab experience also included utilization of Gas Chromatography (GC)-Mass Spectrometry (MS), High Performance Liquid Chromatography (HPLC), Nuclear Magnetic Resonance (NMR), Infrared (IR) spectrometry, and Ultraviolet/Visible (UV-VIS) Spectrometer.

***Site Investigation
Report***

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SITE INVESTIGATION REPORT

Former Puunene Piggery
South Firebreak Road
Puunene, Maui, Hawaii
TMK (2) 3-8-8 Parcel 19

Prepared For:
A&B PROPERTIES, INC.
P.O. Box 266
Puunene, Hawaii 96784

Prepared By:
ENVIROSERVICES & TRAINING CENTER, LLC
505 Ward Avenue, Suite 202
Honolulu, Hawaii 96814
tel: (808) 839-7222

ETC Project No. 06-2048

October 2011

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1.0 CERTIFICATIONS AND LIMITATIONS

EnviroServices & Training Center (ETC), LLC has completed this Site Investigation Report for the project site. ETC's findings and conclusions presented in this report are professional opinions based solely upon visual observations of the project site, government regulations, and upon interpretation of the laboratory data and field measurements gathered at the time and location of the study.

This report is intended for the sole use of ETC's Client, exclusively for the project site indicated. The scope of services performed in execution of this project may not be appropriate for satisfying the needs of other users, and any use or reuse of this report or the findings and conclusions presented herein is unauthorized and at the sole risk of said user.

ETC makes no guarantee or warranty, either expressed or implied, except that our services are consistent with good commercial or customary practices designed to conform to acceptable industry standards and governmental regulations. No warranty or representation, expressed or implied, is included or intended in its proposal, contracts, or reports. Opinions stated in this report apply only to the site as outlined and apply to the conditions present at the time of site sampling activities. Moreover, these opinions do not apply to site changes that occur after the site sampling activities.

Prepared By:

Sharla Nakashima
Project Manager

Date:

October 2011

2.0 EXECUTIVE SUMMARY

EnviroServices & Training Center (ETC), LLC was contracted by A&B Properties, Inc. (A&B) to conduct a Site Investigation at the project site known as the former Puunene Piggery, identified as Tax Map Key (TMK) (2) 3-4-8: Parcel 19 (herein referred to as the "Property") and located along South Firebreak Road in Puunene, Hawaii. The data obtained during this investigation was used to determine whether additional investigation and/or corrective actions are warranted, based on the decision rules developed in ETC's February 2011 *Site Investigation Work Plan, Former Puunene Piggery* (SI-WP).

The Property was formerly used as a piggery for over 25 years. As part of an agreement with the former tenant, Mr. Larry Poffenroth occupied the property and took over the piggery operations in or around 1995; he is believed to have begun solid waste management activities at the property shortly thereafter. Poffenroth occupied the property, and commenced his solid waste management activities, without the knowledge or consent of the former Property landowner, A&B. Initially, Mr. Poffenroth's solid waste management activities were limited to scrap metal storage and processing, however, he subsequently expanded and began accepting green waste, construction/demolition waste, and other miscellaneous waste streams. In addition, large amounts of food waste were brought to the Property as pig feed, which resulted in discarded empty food packaging materials being spread throughout much of the north portion of the Property. In late 2007, A&B was finally able to evict Mr. Poffenroth and all the remaining pigs were subsequently removed from the Property in 2008. Immediately following the eviction, A&B Properties began solid waste cleanup activities at the Property which were completed in February 2011. Based on the former usage of the Property, several specific potential sources of contamination were identified during previous site inspections.

The contaminants of potential concern (COPC) identified for the purposes of this site investigation were Resource Conservation and Recovery Act (RCRA) eight metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium and silver), total petroleum hydrocarbons (TPH) as diesel (DI), TPH as oil (O), polynuclear aromatic hydrocarbons (PAHs), and polychlorinated biphenyls (PCBs). The media targeted by this site investigation was surface soil.

In order to assess the impacts associated with the former solid waste operations on the Property, the following decision units (DU) were established based on source locations: The source locations were identified as the shop area (DU1), vehicle and drum storage area (DU2), scrap metal processing area (DU3), miscellaneous scrap metal and debris (DU4), scrap metal stockpiles and transformer storage area (DU5), vehicle/tanker/televios/monitors storage area (DU6), miscellaneous hazardous materials storage area (DU7), miscellaneous scrap metal with open areas (DU8), battery storage area (DU9), miscellaneous scrap metal pile (DU10), and the scrap metal and CRT storage area (DU11).

In March 2011, a total of thirteen (13) multi-increment soil samples (eleven primary samples, two field replicate samples) were collected from the potential contaminant source locations. The samples were submitted to Torrent Laboratory, Inc. (TLI) in Milpitas, California for select COPC as described in ETC's February 2011 SI-WP.

Analytical results from ETC's March 2011 initial site investigation activities indicated that elevated concentrations of TPH-O were reported for DU6 and DU12 (replicate of DU3). Specifically, reported average concentration for DU6 (730 mg/kg) and the adjusted value (reported average concentration plus RSD) for DU12 (589 mg/kg) exceeded the Hawaii Department of Health (DOH) Environmental Action Level (EAL) of 500 mg/kg pertaining to gross contamination concerns associated with unrestricted land use. The adjusted value for DU6 (1,228 mg/kg) also exceeded the DOH EAL pertaining to leaching (1,000 mg/kg) concerns. Although the initial AL was exceeded, the DOH EAL pertaining to direct exposure (2,300 mg/kg) concerns associated with unrestricted land use was not exceeded. Furthermore, ETC understands that during the land sale of the property the "new" and current land owner agreed to accept a commercial/industrial land use limitation for the property. Therefore, gross contamination concerns associated with unrestricted land use would not be considered a significant environmental hazard for this and will be removed from consideration. An adjusted TPH-O value (1,228 mg/kg) was reported at a concentration exceeding the EAL pertaining to soil leaching EALs in DU6 only. A previous groundwater investigation indicated that none of the regulated drinking water contaminants were identified at levels of concern. In addition, the DOH HEER Office generally considers soil leaching EALs associated with petroleum-related constituents excessively conservative. For example, as noted in the DOH's Summer 2008 *Evaluation of Environmental Hazards at Sites with Contaminated Soil and Groundwater* document (EHE Document), TPH-O is considered to be biodegradable and "can be expected to naturally degrade over time," however, it is not accounted for in the model. The model used is also based on a much higher rainfall than is received in Puunene, Hawaii. In addition, the leaching EAL does not consider drinking water utility status (i.e. drinking water vs. non-drinking water) and; as noted in the EHE Document, the leaching EAL is based on the California EPA Los Angeles Regional Water Board proposed action level of 1,000 mg/kg which in fact applies to drinking water aquifers in which the distance above groundwater is less than 20 feet (CRWQCB, 1996). Note that groundwater status of the Property is considered to be non-drinking water and is anticipated at a depth greater than 100 feet. Based on this information, soil leaching concerns associated with petroleum-related constituents do not appear to be a significant concern. Therefore, soil leaching would not be considered a significant environmental hazard for this site and will be removed from consideration.

In addition to the DU6 findings, analytical results indicated that soil collected from DU11 contained an average total lead concentration of 830 mg/kg, which exceeds the initial AL of 200 mg/kg. The detected total lead concentration also exceeded the DOH EAL of 800 mg/kg pertaining to direct exposure concerns associated with commercial/industrial land use. Based on these findings, ETC proposed additional surface soil sampling within DU11. As a result, ETC remobilized to the Property in August 2011 to collect a total of ten (10) multi-increment soil samples (eight primary samples, two field replicate samples) from DU11. The samples were submitted to TestAmerica - Honolulu (TA-H) in Aiea, Hawaii for analysis of total lead.

Analytical results for the additional investigation of DU11 indicated that average total lead concentrations for all eight DUs were well below the project defined AL of 200 mg/kg. Based on these findings, ETC suspects that the deviation of these results from initial DU11 findings may have been caused by nuggets or discrete pieces of lead within the soil. Therefore, based on the analytical results of the additional sampling activities, ETC suspects that the initial results for DU11 may not necessarily reflect the average lead concentrations that are likely to be encountered throughout DU11. In addition, given the future commercial/industrial land use of the Property coupled with the results of the additional sampling activities, potential plant uptake is not considered a concern. Therefore, based on the data, lead was removed from consideration as a contaminant of concern for the Property.

Based on review of the data obtained from this site investigation and comparison of COPC concentrations to applicable DOH EALs pertaining to commercial/industrial land use, there appear to be no retained environmental hazards for the site. As such, no further action appears necessary to address concerns associated with the former solid waste operations on the Property.

3.0 INTRODUCTION AND PURPOSE

EnviroServices & Training Center (ETC), LLC was contracted by A&B Properties, Inc. (A&B) to conduct a site investigation at the project site known as the former Puunene Piggy identified as Tax Map Key (TMK) (2) 3-8-8 Parcel 19 (herein referred to as the "Property") and located along South Firebreak Road in Puunene, Hawaii.

The overall objective of the site investigation was to determine whether contaminants of potential concern (COPC) concentrations exceed the Project Action Levels (ALs). The COPC investigated were established based on former solid waste operations and cleanup activities on the Property.

This report presents ETC's findings during site investigation activities at the Property. The data obtained during the investigation will help determine whether additional investigation and/or corrective actions are warranted, based on the decision rules developed in ETC's February 2011 *Site Investigation Work Plan, Former Puunene Piggy*. The initial ALs for this project were identified as the default lowest Hawaii Department of Health (DOH) Environmental Action Levels (EALs) pertaining to unrestricted land use for areas where groundwater is not a potential drinking water source and where the nearest surface water body is less than 150 meters from the site.

Specifically, the following tasks were completed:

- Established eleven separate surface soil decision units based on ETC's February 2011 *Site Investigation Work Plan*.
- Collected one multi-increment surface soil sample, consisting of 50 increments, from each decision unit.
- Collected two field replicate multi-increment surface soil samples (50 increments) from one of the eleven decision units for use as batch quality control.
- Submitted the multi-increment samples to Torrent Laboratory, Inc. (TLI) in Milpitas, California for incremental subsampling in accordance with the US EPA's November 2003 *Guidance for Obtaining Representative Laboratory Analytical Subsamples from Particulate Laboratory Samples* (EPA 600/R-03/027).
- Instructed TLI to analyze the samples on a 5 to 7 working day turn around time for the eight Resource Conservation and Recovery Act (RCRA) metals via EPA Method 6010B/7471, total petroleum hydrocarbons (TPH) as diesel (D) and TPH as oil (O) via EPA Method 8015 modified, polynuclear aromatic hydrocarbons (PAHs) via EPA Method 8270 SIM, and polychlorinated biphenyls (PCBs) via EPA Method 8082.
- Established an additional eight, 0.5-acre surface soil decision units within DU11 based on ETC's June 2011 *Addendum No. 2, February 2011 Site Investigation Work Plan*.
- Collected one multi-increment surface soil sample, consisting of 50 increments, from each of the eight additional decision units.

- Collected two field replicate multi-increment surface soil samples (50 increments) from one of the eight additional decision units for use as batch quality control.
- Submitted the multi-increment samples to TestAmerica – Honolulu (TA-H) in Aiea, Hawaii for incremental subsampling in accordance with the US EPA's November 2003 *Guidance for Obtaining Representative Laboratory Analytical Subsamples from Particulate Laboratory Samples* (EPA 600/R-03/027).
- Instructed the TA-H to analyze the samples on a 10 to 15 working day turn around time for total lead via EPA Method 6010B/7471.
- Prepared this Site Investigation Report which includes the results of the investigations, summaries of analytical data with comparison to applicable action levels pertaining to commercial/industrial land use, and any recommendations for further investigation activities and/or corrective actions

4.0 BACKGROUND

4.1 Site Description and Land Area

The Property consists of approximately 86 acres of land located in Puunene, Maui, Hawaii and is identified as Tax Map Key (TMK) identification number (1) 3-8-8: Parcel 19. The Property was formerly owned by A&B – Hawaii, Inc. The Property is currently owned by CMBY 2011 Investment LLC.

The Property is relatively flat with a slight downward gradient to the west and is situated at an elevation of approximately 110 to 130 feet above mean sea level (msl). Areas adjacent to the Property consist of Maui Raceway Park and agricultural land.

4.2 Site Geology

The island of Maui is the second largest of the Hawaiian Islands. Maui consists of two shield volcanoes with a connecting isthmus. The volcanic rocks of the West Maui Mountains (West Maui Volcano) are divided into three series. The oldest is the Wailuku Volcanic Series, followed by the Honolua and Lahaina Volcanic Series. The Wailuku Series built the major shield volcano comprised of basaltic lava flows and associated pyroclastic deposits. The Lahaina Series then covered the western slopes of the West Maui Volcano.

The Haleakala Volcano last erupted around 1790 and is presently dormant. The shield of the volcano is composed of a and pahoe-hoe lava flows of theolite, theoleitic olivine basalt, and oceanite known as the Honomahu Volcano Series. The Kula Volcanic Series overlies the Honomahu Series and is comprised of hawaiite, alkalic olivine basalt, and ankaramite. Lava flows from the Haleakala volcano formed the Maui Isthmus and are made up of permeable basalt and erosional deposits (Macdonald, et al., 1983).

Soil at the Property is classified by the U.S. Department of Agriculture (USDA) Soil Conservation Service as Waikoa extremely stony silty clay loam, 3 to 25 percent slopes (WID2). As described by the USDA, WID2 soils consist of moderately deep, well drained soils from weathered rock. In a representative profile, the surface layer consists of extremely stony silty clay loam, the subsoil is a stony silty clay loam, and the substratum consists of bedrock. Annual rainfall amounts to 15 inches. WID2 soils are generally used for pasture and irrigated sugarcane (USDA, 1972).

4.3 Site Hydrogeology

The primary drinking water in the Hawaiian Islands is drawn from basal groundwater. Basal groundwater is formed by rainwater percolating down through the residual soils and permeable volcanic rock. The portion of the island situated below sea level is in contact with ocean salt water, except within rift zones of the volcanoes where fresh water forms a basal lens called the "Chyben-Herzberg" lens. A zone of transition between the fresh groundwater and the ocean salt water occurs due to the constant movement of the interface as a result of tidal fluctuations, seasonal fluctuations in recharge and discharge and aquifer development (MacDonald, et al., 1983).

Downward percolation of rainwater may be stopped by impermeable layers such as dense lava flows, alluvial clay layers and volcanic ash. The groundwater then forms a perched or high level aquifer, which is not in contact with salt water. Recharge of the aquifer occurs in areas of high rainfall, which are the interior mountainous areas. The groundwater flows from the recharge areas to the areas of discharge along the shoreline. Frictional resistance to groundwater flow causes it to pile up within the island until it attains sufficient hydraulic head to overcome friction. Thus, basal groundwater tends to slope toward the shoreline.

The Property is underlain by the Kahului Aquifer System, which is part of the Central Aquifer Sector on the island of Oahu. The aquifer is classified by Mink and Lau, 1990, with the system identification number 60301214 (33221). This system includes an unconfined high level perched aquifer. The groundwater in this aquifer is described as having no potential use and is neither a drinking water resource nor ecologically important. The groundwater has a low salinity (250 to 1,000 mg/L Cl⁻); and is considered replaceable with a high vulnerability to contamination (Mink and Lau, 1990).

The Property is further underlain by a confined aquifer of the same system. The aquifer is classified with the system identification number 60301111 (12212) and is a unconfined basal formation in flank compartments. The groundwater in this aquifer is described as currently being used, however, is neither a drinking water resource nor ecologically important. The groundwater also has low salinity (250 to 1,000 mg/L Cl⁻). It is described as irreplaceable with a moderate vulnerability to contamination (Mink and Lau, 1990).

The Property is located below the Underground Injection Control (UIC) line and the groundwater is not considered a drinking water resource. Therefore, the Hawaii Department of Health (DOH) Environmental Action Levels (EALs) for soil in areas where groundwater is not current or potential drinking water source and where the nearest surface water body is less than 150 meters from the site will be used as a reference. Groundwater is anticipated at a depth of approximately 110 to 120 feet below ground surface (bgs). In addition, there is an existing non-potable water well located on the north portion of the Property.

4.4 Surface Water

The nearest surface water body appears to be an Hawaiian Commercial & Sugar (HC&S) irrigation reservoir located adjacent to the northern border of the Property. In addition, a normally dry, concrete lined irrigation ditch is located along the western boundary of the Property.

4.5 Site Background

The Property was formerly used as a piggery for over 25 years. As part of an agreement with the former tenant, Mr. Larry Poffenroth occupied the property and took over the piggery operations in or around 1995; he is believed to have begun solid waste management activities at the property shortly thereafter. Poffenroth occupied the property, and commenced his solid waste management activities, without the knowledge or consent of the Property landowner, A&B Properties. Initially, Mr. Poffenroth's solid waste management activities were limited to scrap metal storage and processing, however, he subsequently expanded and began accepting green waste, construction/demolition waste, and other miscellaneous waste streams. In addition, large amounts of food waste were brought to the Property as pig feed, which resulted in discarded empty food packaging materials being spread throughout much of the north portion of the Property. In late 2007, immediately following Mr. Poffenroth's eviction, A&B Properties began solid waste cleanup activities at the Property. Solid waste cleanup activities were completed in February 2011.

4.6 Current and Future Land Use

Currently, the Property is a vacant open area. Approximately 10 to 15 acres of land at the southern end of the Property is used for sugarcane cultivation. This area was not utilized by Mr. Poffenroth and therefore is not included as part of this investigation. The project area is located on agricultural lands and the current land owner intends to develop the property for commercial or industrial use.

4.7 Contaminants of Potential Concern

Prior to the start of this investigation there were no data regarding potential contaminants at the Property; currently, there are data. Based on previous land use and observations made during a site walk, the following contaminants of potential concern (COPC) were proposed for the purposes of this site investigation.

- Total petroleum hydrocarbons (TPH) as diesel-range organics (TPH-D)
- TPH as heavy oil-range organics (TPH-O)
- DOH polynuclear aromatic hydrocarbons (PAHs)
- Polychlorinated biphenyls (PCBs)
- Metals regulated under the Resource Conservation and Recovery Act (RCRA metals)

With the exception of limited surface staining, there is no evidence that the above contaminants exist in the site soils. Therefore, the aforementioned COPC were selected based on the observation of metal reclamation activities previously performed at the site, the former presence of painted and/or petroleum-containing equipment, and the former presence of miscellaneous solid waste throughout the Property. As noted in Section 4 of the Interim Final Technical Guidance Manual (TGM), Hawaii Department of Health (DOH) Hazard Evaluation and Emergency Response (HEER) Office, June 21, 2009, volatile constituents are typically not sampled in surface soils, therefore, TPH as gasoline and its associated volatile constituents (i.e. benzene, toluene, etc.) were not included as a COPC for this site investigation.

4.8 Contaminant Source Areas

The Property was historically used to conduct various solid waste management activities, including but not limited to general storage and scrap metal processing, and surface soils at the Property may have been impacted by these activities. Several specific potential sources of contamination were identified during previous site inspections. Solid waste management activities were conducted primarily on the north portion of the Property and in isolated areas of the south portion of the property while Mr. Poffenroth's piggery operations were limited to the north portion of the Property. Much of the Property consists of open land covered with kiawe trees and other vegetation and was not used by either the piggery or solid waste operations. The north and south portions of the Property are separated by a fence.

Site inspection of the Property identified several contaminant source areas on the north portion of the Property. Specifically, ETC noted several large scrap metal stockpiles, a non-PCB transformer storage area, a vehicle and drum storage area, and an apparent shop area. As part of Poffenroth's operation and during the ongoing cleanup activities, scrap metal processing was conducted on and around a paved roadway located on the north portion of the Property. The COPC associated with these areas may include TPH-D, TPH-O, PAHs, PCBs and RCRA 8 Metals. The following contaminant source areas were identified and mapped out in Appendix 1, Figure 2.

- Scrap Metal Stockpiles and Transformer Storage Area (Decision Unit 5)
- Vehicle and Drum Storage Area (Decision Unit 2)
- Shop Area (Decision Unit 1)
- Scrap Metal Processing Area (Decision Unit 3)
- Miscellaneous Scrap Metal and Debris (Decision Unit 4)

In addition, a temporary hazardous materials storage area (i.e. e-waste, etc.) was designated on a concrete pad located north of the scrap metal processing area. Scrap metal and other miscellaneous solid waste (i.e. scrap metal, rubbish, etc.) was stored within open areas. The COPC associated with these areas may include RCRA 8 Metals. The following contaminant source areas were identified and mapped out in Appendix 1, Figure 2.

- Miscellaneous Hazardous Materials Storage Area (Decision Unit 7)
- Miscellaneous Scrap Metal within Open Areas (Decision Unit 8)

Note that the remaining areas of the north portion of the Property were reportedly heavily vegetated and not used for solid waste management activities. In addition, no visual evidence of any previous solid waste management activities was observed in these areas during ETC's site inspection activities.

Site inspection indicated that solid waste storage in the south portion of the Property was concentrated in four areas. The south portion of the Property was generally covered in moderate to heavy vegetation; therefore, solid waste storage was limited to areas along interior roads and in other paved areas in this part of the Property. Specifically, ETC personnel identified a battery storage area, a scrap metal and cathode ray tube televisions/monitors (CRT) storage area, and miscellaneous scrap metal pile. COPC associated with these areas may include RCRA 8 Metals. In addition, an area of abandoned vehicles, tankers, and CRT storage was observed on the south portion of the Property. COPC associated with this area include TPH-D, TPH-O, PAHs, PCBs and RCRA 8 Metals. The following contaminant source areas were identified and mapped out in Appendix 1, Figure 2.

- Battery Storage Area (Decision Unit 9)
- Scrap Metal and CRT Storage Area (Decision Unit 11)
- Miscellaneous Scrap Metal Pile (Decision Unit 10)
- Vehicle/Tanker/CRT Storage Area (Decision Unit 6)

The remaining areas of the south portion of the Property were reportedly not used for solid waste management activities and consisted of moderate to heavy vegetation. In addition, no visual evidence of any previous solid waste management activities was observed in these areas during ETC's site inspection activities.

4.9 Conceptual Site Model

A conceptual site model (CSM) provides a generalized framework regarding site-specific conditions relevant to potential contaminants, contaminant sources, migration pathways, routes of exposure, potential receptors, and environmental hazards (i.e., leaching to groundwater/discharge to surface waters, ecological toxicity) that may be affected by the contaminants. Establishment of this framework is essential for assessing environmental hazards associated with the contaminants, determining what receptors are at risk, determining appropriate remedial strategies, and addressing unacceptable hazards.

The following environmental hazards were initially considered:

- Direct exposure threats to human health;
- Leaching and subsequent threats to groundwater resources;
- Threats to terrestrial habitats; and
- Gross contamination and general resource degradation concerns.

4.9.1 *Receptors of Concern*

When identifying potential receptors, plausible exposure under both current and future land-use should be evaluated. Accordingly, potential receptors are identified for both current and future use scenarios. For the purposes of this investigation, the following potential receptors were identified:

- Current and future property users
- Current and future off-site property users
- Future site construction workers
- Trespassers
- Terrestrial ecological receptors
- Aquatic ecological receptors

4.9.2 *Exposure Pathways*

Exposure is defined as the contact of an organism with a chemical or physical agent. An exposure pathway is defined as "the course a chemical or physical agent takes from a source to an exposed organism." It describes "a unique mechanism by which an individual or population is exposed to chemicals or physical agents at or originating from a site (USEPA, 1989)." In order for an exposure pathway to be considered potentially complete, four elements must exist: 1) a source or release from a source; 2) a transport/exposure media; 3) an exposure point (point of contact with the contaminated medium); and 4) an exposure route. The exposure pathways that may be present at the Property are described below.

A. Soil Exposure Pathway

Direct contact with soil may result in incidental oral ingestion and/or dermal absorption of COPC. Although generally associated with surface soil, direct contact may also occur with subsurface soil during trenching and excavation work.

B. Air Exposure Pathway

Air exposure pathways become potential routes of exposure when COPC enter the air via volatilization or via adsorption to fugitive dust particles. Volatilization occurs when COPC partition to the air. Such volatilization may occur from surface soil, subsurface soil, and/or groundwater. When considering volatilization from subsurface soil or groundwater, the transport of COPC can occur through void spaces in unsaturated soils, asphalt, and concrete to the outdoor air or to future indoor air through foundation cracks. For this Property, volatilization is not a concern due to the suspect semi- to non-volatile nature of the COPC.

Generation of fugitive dust may occur through disturbance of affected soil, such as wind or construction activities. Dust particles may be inhaled, may settle on human skin and be ingested (hand to mouth), and/or may settle on vegetation that may be ingested by humans.

C. Groundwater Exposure Pathway

Groundwater beneath the site may have been impacted by surface spills through leaching from impacted soils. Receptors may be exposed to COPC in the groundwater by direct contact or by inhaling volatile COPC emitted from the groundwater to air. For this site, ingestion of the groundwater is not anticipated since the aquifer is not considered to be usable as a drinking water resource. In addition, a prospective purchaser of the Property completed an investigation of the on-site well and concluded that the water is in fact not suitable for drinking water use. The investigation also indicated that the water is suitable for non-potable uses (i.e. irrigation, etc.). As such although ingestion of the groundwater is unlikely, direct human contact may occur. Note that the groundwater investigation also indicated that none of the regulated drinking water contaminants were identified in the groundwater at levels of concern.

Inhalation of volatile COPC is not anticipated under current site conditions due to the suspected semi- to non-volatile nature of the COPC and the length of time any potential spills or releases may have been present at the site. Although direct ingestion of groundwater at the property is unlikely, the potential exists for contaminants to leach into the groundwater and to migrate or be drawn into downgradient wells.

Ecological receptors may also be affected in shallow marine environments within groundwater discharge zones. This is the primary concern associated with the groundwater exposure pathway. Note that site investigation results indicated that investigation of the groundwater at the Property is not warranted at this time.

D. Sediment Exposure Pathway

Receptors may be exposed to COPC in sediment from the Property as a result of surface runoff during storm events to nearby drainage ways, which may eventually discharge to the ocean. Sediment may accumulate in the marine environment and be available for contact with various receptors. Recreational users of the marine environment (swimmers, surfers, fishermen) may come into direct contact with sediment and be exposed through oral ingestion and/or dermal absorption. Ecological receptors may live directly in the impacted sediment and may be exposed to COPC through feeding within the sediment. As a secondary transport mechanism, COPC may accumulate in ecological receptors (i.e., fish, shellfish), then be ingested by human receptors.

4.10 Project Action Levels

The initial Action Levels (ALs) that will be used to evaluate data obtained from this site investigation will be the Hawaii Department of Health (DOH), Environmental Action Levels (EALs) as described in the DOH's Summer 2008 *Evaluation of Environmental Hazards at Sites with Contaminated Soil and Groundwater* document and the corresponding March 2009 update (referred to herein as the EHE document). The ALs noted below are based on the default lowest DOH EALs pertaining to unrestricted land use for areas where groundwater is not a potential drinking water source and where the nearest surface water body is less than 150 meters from the site. Table 1 presents the ALs proposed for the site investigation.

Table 1: Initial Action Levels

Constituent	Action Level
TPH-D	500
TPH-O	500
PAHs	
Acenaphthene	23
Acenaphthylene	13
Anthracene	2.5
Benzo(a)anthracene	1.5
Benzo(a)pyrene	0.15
Benzo(b)fluoranthene	1.5
Benzo(g,h,i)perylene	27
Benzo(k)fluoranthene	15
Chrysene	14
Dibenz(a,h)anthracene	0.15
Fluoranthene	40
Fluorene	7.3
Indeno(1,2,3-cd)pyrene	1.5
Naphthalene	0.46
Phenanthrene	11
Pyrene	56
1-Methyl naphthalene	1.1
2-Methyl naphthalene	1.0
PCBs	1.1
Metals	
Arsenic	20
Barium	750
Cadmium	12
Chromium	500
Lead	200
Mercury	4.7
Selenium	10
Silver	20

5.0 SUMMARY OF SITE HISTORY

The Property was most recently used as a piggery and an unpermitted solid waste management facility. The solid waste management activities were assumed to have started in 1995 when Mr. Larry Poffenroth took over piggery operations as part of an agreement with the former tenant. Mr. Poffenroth reportedly began conducting solid waste management activities without the knowledge or consent of the former Property landowner, A&B. From 1996 to 2007, A&B attempted to force Mr. Poffenroth to cease both the solid waste management activities and piggery operations and to vacate the site. Initially, Mr. Poffenroth's solid waste management activities were limited to scrap metal storage and processing; however, he subsequently expanded and began accepting green waste, construction/demolition waste, and other miscellaneous waste streams. In addition, large amounts of food waste were brought to the Property as pig feed, which resulted in discarded empty food packaging materials being spread throughout much of the north portion of the Property.

In October 1998, the Property was inspected by the DOH Solid Waste Section (SWS). As a result, on November 27, 1998, the DOH SWS issued Mr. Larry Poffenroth, operator of the Property, a letter indicating several violations at the Property. In addition, the letter ordered Mr. Poffenroth to cease and desist all salvaging operations, and stated that a formal Notice of Violation (NOV) would be issued if he did not respond within 15-days. The DOH SWS reportedly issued a second letter, dated December 23, 1998 regarding the closure of the illegal solid waste management operations at the Property. Since no response was received for the November and December 1998 letters, the DOH SWS issued a "warning letter" on May 5, 1999 indicating that if closure of the facility is not completed as requested, the DOH may institute an administrative or civil action for the current and prior solid waste violations. No apparent further action was taken or pursued by the DOH SWS from May 1999 to June 2005, when an anonymous complaint was reported to the DOH SWS that Mr. Poffenroth was accepting white goods and baling white goods and cars at the piggery.

As a result of the anonymous complaint, the DOH SWS conducted a site inspection of the Property in September 2005. The inspection report indicated that an accumulation of solid waste (i.e. scrap metal, green waste, construction and demolition waste, etc.) was observed on the Property. Subsequently, the DOH SWS issued Mr. Poffenroth a "Letter of Interest," dated September 19, 2005, requesting that removal and proper disposal of the solid waste on the Property be completed within one year.

In late 2007, A&B was able to evict Mr. Poffenroth and all the remaining pigs were subsequently removed from the Property in 2008. Immediately following the eviction, A&B began solid waste cleanup activities at the Property; however, these efforts were hindered by Mr. Poffenroth's bankruptcy filing and associated legal issues. Following the bankruptcy court orders allowing cleanup of scrap metal from the Property, A&B requested a solid waste management permit exemption for the cleanup activities. Subsequently, the DOH SWS granted the exemption and cleanup activities commenced. ETC understands that solid waste cleanup activities were completed in February 2011. As part of the planned cleanup activities, A&B proposed to conduct a "comprehensive site assessment" of the Subject Property. As such, ETC prepared a Site Investigation Work Plan (SI-WP), dated February 2011 to investigate whether the surface soils at the Property have been impacted by the former solid waste management activities. This report serves as documentation of the sampling activities described in ETC's February 2011 SI-WP.

6.0 SUMMARY OF DATA QUALITY OBJECTIVES

This investigation was driven by the former solid waste cleanup activities on the Property. The data quality objectives (DQO) process is typically described in a work plan prepared prior to site sampling activities to define the criteria for environmental data collection operations. The process includes stating the problem to be investigated, identifying the decisions that need to be made, identifying the inputs to the decision making process, defining the boundaries of the investigation, developing decision rules that will be applied, specifying tolerable limits on the decision errors, and optimizing the sampling design to be used in the investigation. The following is a brief description of the DQOs used for this investigation.

6.1 Problem Statement

Former operations at the Property include the staging of solid wastes and the processing of metal for subsequent reclamation. Currently, no environmental data exist for the Property therefore, surface soil sampling is needed to determine potential impacts associated with previous site operations. As such, for the purposes of the sampling activities described herein, the problem statement to be addressed in this site investigation is:

"In order to determine whether previous site usage has adversely impacted site soils and whether further evaluation and/or corrective action may be appropriate, initial data for COPC in surface soil is needed."

6.2 Decision Making

A decision statement was formulated for the Principal Study Question (PSQ). The decision statement links the alternative actions (AAs) with the (PSQ) and expresses a choice between AAs based on the outcome of the investigation. The decision statement for this project is as follows:

"Determine whether mean COPC concentrations in the surface soil of each decision unit at the Property exceed appropriate ALs and may require additional investigation and/or corrective actions to mitigate exposure pathways; if not, then no further action will be performed to address the COPC."

6.3 Decision Inputs

The inputs to the decision were identified as new data obtained through collection of surface soil samples submitted to a laboratory using standardized analytical methods (i.e., standard EPA analytical methods described in the Third Edition of *SOP-346 On-line Test Methods for Evaluating Solid Waste Physical Chemical Methods*) and through comparison to the risk-based project ALs.

6.4 Investigation Boundaries

The population of interest was identified as surface soil (defined as the top 12-inch layer of soil) within accessible areas of the Property. Soil will be defined as any portion of the representative soil samples that pass through a 2-millimeter sieve. The usability of the data gathered during this investigation was not considered to be constrained by temporal boundaries since the COPC being investigated are relatively persistent in the environment and will not greatly vary in concentrations in the soil over relatively short time periods.

6.5 Decision Rules

The decision rules were then formulated to govern the decision-making process. Using the information gathered in the previous steps of the DQO process, the following decision rules were formulated:

"If COPC concentrations in surface soil decision units at the Property exceed the ALs established for this project, *then* additional evaluation and/or corrective actions may be needed to mitigate exposure pathways. *If* COPC concentrations in surface soil decision units at the Property are below the ALs established for this project, *then* no further action will be warranted and the exposure pathways will be considered incomplete."

6.6 Decision Error

Decision errors occur when sample data misleads the decision maker(s) into making a wrong decision and therefore taking the wrong response action. The possibility of a decision error exists since decisions are based on sample data that may be inaccurate due to random and systematic errors incurred at different stages of acquisition.

In order to control the various sources of decision error, a sampling methodology designed to minimize the sources of significant decision error was selected (multi-increment sampling). In addition, it was deemed prudent to incorporate a statistics-based bench mark for margin of error. As such, the relative standard deviation was identified as a means to evaluate the potential effect of error on the investigation process.

6.7 Sampling Design

In order to minimize the occurrence of decision errors, a statistics-based sampling design was selected to generate data that provides an effective representation of existing mean COPC concentrations within the Property. The objective of the sampling design is to provide sufficient data to resolve the Decision Statement described in Section 6.2.

A multi-increment sampling approach for collection and analysis of soil samples was selected. Multi-increment sampling is a method employed to obtain representative samples that exhibit mean concentrations of the material being sampled and that account for the variability of concentrations within that particular material. Such a method was developed to provide accurate (closeness of the sample value to its actual value) and precise (closeness of repeated sample values, or repeatability) data. If data is considered sufficiently accurate and precise, then the data can be considered reliable estimates of the true concentrations.

Sampling accuracy is usually achieved by some type of random sampling. In random sampling, every unit in the population has a theoretically equal chance of being sampled and measured. Consequently, statistics generated by the sample (i.e., mean and standard deviation of the mean) are unbiased (accurate) estimators of true population parameters – in other words, the sample is representative of the population.

Sampling precision is commonly achieved by taking an appropriate amount of samples from the population. By looking at the equation for the standard deviation of the mean of a sample (standard error of the mean), precision increases (variability decreases) as the number of samples increase, although it is not a one-to-one relationship. Another method to increase the sampling precision is to increase the physical size (weight or volume) of the samples that are collected and analyzed. This technique has the effect of minimizing between-sample variation and decreasing the standard deviation of the mean of the sample. Increasing the number of samples collected and/or the size of the samples from a population not only increases sampling precision, it also has the secondary effect of increasing sampling accuracy.

The multi-increment sampling technique takes into account the need for sufficiently accurate and precise sample data. The technique includes requirements for: 1) collection of random samples; 2) collection of a larger number of samples; and 3) collection of a physically larger sample volume than standard discrete sampling techniques.

The multi-increment sampling approach will provide mean COPC concentrations for the specific decision unit that the sample is meant to represent. Therefore, defining the appropriate decision units is essential for meeting the project DQOs. For this project, eleven (11) decision units were defined for the Property based on the former usage and potential contaminant source.

7.0 FIELD INVESTIGATION ACTIVITIES

This section provides information regarding the selection of decision units and the specific field methods employed to perform sampling activities during this site investigation. The activities described herein were performed in general accordance with HEER TGM and the EHE Document.

7.1 Selection of Decision Units

As previously described in Section 6.7, eleven (11) decision units were identified for the project site. Each decision unit was limited to areas of the Property with accessible surface soil conditions (i.e., areas where there are no structures or pavements).

7.2 Soil Sampling Activities

Prior to commencing soil sample collection, ETC personnel utilized available Property maps and previously collected global positioning system (GPS) coordinates to demarcate the specific areas of interest. Based on the population of the interest, eleven (11) multi-increment surface soil decision units were established throughout the Property. On March 1, 2011, ETC personnel mobilized to the site to conduct the field sampling activities. Collection of incremental samples were performed in a stratified, random manner (i.e., collect incremental samples from random locations within each decision unit, but ensuring that each portion of the decision unit is represented) within each decision unit. ETC personnel conceptually subdivided each decision unit and collected a proportional amount of increments from each area.

The surface conditions throughout the Property primarily consisted of loose to very compact hard soil, therefore, hand picks were used to penetrate and loosen the surface soil at each increment location. ETC personnel used pre-cleaned stainless steel trowels to collect soil increments from 50 locations in each decision unit. Increments were placed into resealable plastic bags. Prior to handling any soil, ETC personnel donned a new pair of disposable gloves (latex/vinyl/nitrile). Gloves were interchanged prior to collection of each multi-increment sample.

All sample containers were labeled with the project name, sample identification number, date/time of sample collection, and sampler's initials. The samples were kept in a sample cooler with ice pending delivery to the contracted laboratory.

7.3 Decontamination and Investigation-Derived Waste

Re-usable sampling tools, such as stainless steel trowels and hand picks, were decontaminated by washing with a brush and potable water - Alconox™ solution, rinsing with potable water, then rinsing with distilled water. Decontamination fluids were left to evaporate on-site over relatively impermeable surfaces.

Any disposable sample collection equipment (i.e., used PPE) were containerized at the end of each work day and disposed as solid waste.

7.4 Summary of Environmental Samples

A total of thirteen (13) multi-increment soil samples (eleven primary samples, two field replicate samples) were collected from the site. The field replicate samples were collected from one decision unit were obtained and collected in the same manner as the primary sample – each consisted of 50 soil increments. The samples are described below:

- 2048.DU1 – Shop Area
- 2048.DU2 – Vehicle/Drum Storage
- 2048.DU3 – Processing Area
- 2048.DU4 – Misc. Scrap/Debris
- 2048.DU5 – Large Scrap Metal Stockpiles and Transformer Storage (No-PCBs)
- 2048.DU6 – Vehicle/Tanker/CRT Storage
- 2048.DU7 – Misc. HazMat Storage (e-waste, etc.)
- 2048.DU8 – Misc. Scrap Metal with Open Areas
- 2048.DU9 – Battery Storage Area
- 2048.DU10 – Misc. Scrap Metal Pile
- 2048.DU11 – Scrap Metal and CRT Storage Area
- 2048.DU12 – Field Replicate of 2048.DU3
- 2048.DU13 – Field Replicate of 2048.DU3

8.0 SAMPLE CONTROL PROCEDURES

This section provides information regarding specific control procedures utilized during site activities to maintain control over sample management.

8.1 Sample Identification

The sample identification, or sample naming, procedure describes the naming convention for samples collected and analyzed during this field investigation. The following format was used for multi-increment soil samples collected at the property.

2048.DUX where:

2017 = ETC project number
X = Decision Unit Number

Field replicate samples were labeled in a similar manner as described above using fictitious decision unit number designations such that the samples were indistinguishable from primary samples.

The labeling method was used for all samples collected at the site. Each sample container (resealable plastic bag) was labeled with the sample ID, date/time of sampling, and sampler's initials using an indelible ink marker.

8.2 Sample Chain-of-Custody and Transportation

Chain of custody documentation was maintained to track possession of the samples. All samples collected during the investigation were recorded on chain of custody forms. Information on the chain of custody forms included:

- Sample ID number
- Matrix
- Date and time of collection
- Number and type of containers
- Analytical method to be performed
- Number of pages

An ETC representative and/or its shipping carrier retained custody of the samples at all times prior to hand delivery to Torrent Laboratory Inc. (TLI) in Milpitas, California. Upon delivery of the samples, ETC representatives signed the chain of custody form to indicate the date and time custody of the samples were relinquished and a TLI employee signed the form to indicate the change in custody. Copies of the completed chain of custody forms have been included with the laboratory data packages in Appendix III.

8.3 Sample Preservation and Handling Procedures

Sample handling and preservation were conducted in compliance with the respective method requirements. Table 2 below summarizes these requirements.

Table 2: Sample Handling and Preservation

Analyte	Analytical Method	Sample Container Size, Type	Preservation	Holding Time
TPH-D, TPH-O	EPA 8015 mod	1-gallon resealable polyethylene bag	Cool, 4° C	14 days
PAHs	EPA 8270C	1-gallon resealable polyethylene bag	Cool, 4° C	14 days
Metals	EPA 6010B/7471	1-gallon resealable polyethylene bag	none	6 months
PCBs	EPA 8082	1-gallon resealable polyethylene bag	Cool, 4° C	14 days

Note: Preservation and holding times in accordance with EPA SW-846 On-Line Revision 3: Test Methods for Evaluation Solid Wastes.

8.4 Laboratory Analytical Methods

ETC delivered a total of eleven primary multi-increment samples and two field replicate multi-increment samples to TLI in Milpitas, California with completed chain of custody documentation. TLI performed multi-increment subsampling in accordance with the US EPA's November 2003 *Guidance for Obtaining Representative Laboratory Analytical Subsamples From Particulate Laboratory Samples* (EPA 600/R-03/027), which included air-drying, sieving, and obtaining representative subsamples using either an appropriate mechanical splitter or through multi-increment sampling protocols. TLI was instructed to analyze the processed samples for TPH-D and TPH-O via EPA Method 8015 modified, PAHs via EPA Method 8270C, RCRA8 metals via EPA Method 6010B/7471, and PCBs via EPA Method 8082.

8.5 Laboratory Quality Control

Laboratory quality control procedures for soil analyses followed the specific US EPA methods as described in SW-846. Procedures included the measurement of surrogate standard recoveries, method blanks, laboratory control samples (LCS), matrix spike (MS) samples, and MS Duplicate (MSD) samples. Quality control data are initially reviewed by the laboratory project managers to ensure that data meets acceptable standards for use and reliability. In instances where potential problems were encountered during analyses (i.e., relative percent differences or percent recoveries exceed initially specified control limits, matrix interferences, etc.), the laboratory project manager evaluated the issue and made a determination on how such problems affect the data usability. In these instances, data qualifiers or flags are used to indicate which data may be affected by the issue.

Generally, ETC personnel evaluate the laboratory data packages as they become available. For this particular project, review of laboratory quality control data did not reveal any significant issues associated with data usage.

8.6 Field Quality Control

The data obtained through collection of multi-increment field replicate samples were used for field quality control purposes. ETC collected one primary multi-increment sample and two field replicate multi-increment samples (i.e., field triplicate samples) at a frequency of approximately one set of field triplicate samples for every ten primary multi-increment samples (10%) for quality control purposes. The primary sample and the two field replicate samples were collected in the same manner, as if three separate multi-increment samples were being collected from the same decision unit.

For this project, only one set of triplicate samples were collected. These samples were collected from DU3 and labeled 2048.DU12 and 2048.DU13. Table 2 presents the reported concentrations, means, standard deviations, and relative standard deviations for the triplicate samples.

9.0 FINDINGS AND DISCUSSION

Field investigation activities were performed to identify COPC concentrations in the surface soil. A total of thirteen multi-increment soil samples and two field replicate multi-increment soil samples were collected during the initial site investigation activities, and a total of eight multi-increment soil samples and two field replicate multi-increment soil samples were collected during additional field samples activities of DU11. No deviations were made during ETC's field sampling activities.

9.1 Analytical Data

Surface soil samples collected during initial site investigation activities were submitted to TLI for multi-increment subsample processing and analyses. In order to account for potential sampling error (i.e., fundamental error due to compositional heterogeneity, grouping and segregation error due to distributional heterogeneity, etc.) and analytical error realized during multi-increment sampling/analysis activities, the results from the multi-increment field replicate samples were used to calculate relative standard deviations (RSDs) for each of the COPC analyzed. These RSDs, reported as percentages, were evaluated to quantify the uncertainty associated with total error (sampling error and analytical error). In instances where the reported COPC concentrations were close in value to their respective DOH EAL, the average RSDs for the COPC were used to evaluate whether uncertainty associated with total error was significant.

9.2 Data Quality Assessment

Since data from multi-increment samples theoretically provides estimates of the mean concentrations in the particular decision unit being assessed, a measure of the variation from the mean is needed to evaluate how that variation affects the decision making process. In an effort to account for variance in the data, the standard deviations were calculated from the triplicate samples collected during the investigation for each COPC (see Table 2 below). The standard deviations, coupled with the calculated means of the triplicate samples, were used to obtain relative standard deviations (RSDs) for each set of triplicate samples. The RSDs were then reviewed to determine the effects of total error on the data set. As shown in Tables 3 and 4, RSDs ranged from 0.0% to 116%. The elevated RSDs are likely due to the low detectable concentrations, non-detect values and estimated values. The calculated standard deviations shown in Tables 3 and 4 were added to the reported concentrations for each COPC and presented reviewed as "adjusted" concentrations. The adjusted concentrations were then used to make decisions regarding whether COPC concentrations present a specific environmental hazard for the decision unit. Evaluation of the adjusted values indicated that in addition to the reported concentrations, the adjusted value of 589 mg/kg for the TPH-O concentration of DU12 (replicate of DU3) exceeded the initial AL of 500 mg/kg. An overall review and evaluation of both laboratory quality control and field quality control information indicated that analytical data obtained during the site investigation can be relied upon to make decisions regarding site.

9.3 Initial Analytical Results and Discussion

Analytical results from ETC's March 2011 initial site investigation activities are presented in Table 3 below. The final laboratory report is included in Appendix II.

Table 4: Analytical Data – Additional Investigation of DU11

Sample ID	Lead
2048 DU14	37
2048 DU15	17
2048 DU16	30
2048 DU17	84
2048 DU18	23
2048 DU19	13
2048 DU20	12
2048 DU21	13
2048 DU22	36
2048 DU23	34
Mean	27.67
Standard Deviation	12.74
Relative Standard Deviation	46.05%
DOH EAL	200 (800 ^{CI})

All results presented in mg/kg
 DOH EAL = March 2009 Default DOH EALs for soil in areas where a drinking water source is not threatened and the nearest surface water body is less than 150-meters from the site
 CI = Default DUH EAL for Lead of 800 mg/kg pertaining to direct exposure concerns associated with Commercial/Industrial Land Use.

Analytical data indicated that average lead concentrations for all eight DUs within DU11 were well below the project defined AL of 200 mg/kg.

10.0 ENVIRONMENTAL HAZARD EVALUATION

The environmental hazard evaluation (EHE) process was developed by the Hawaii DOH to serve as a link between site investigation activities and any proposed response activities to be undertaken and evaluated. The EHE is intended to identify potential environmental hazards associated with contaminant concentrations in site media through comparison with DOH EALs established for common environmental hazards.

10.1 Environmental Hazard Evaluation

Average concentrations for multi-increment soil samples were used to determine potential environmental hazards for identified COPC. As noted in Section 4.10, the soil ALs were defined as the default lowest EALs for unrestricted land use. In addition to the ALs for this project, environmental hazards associated with both residential (unrestricted) land use scenarios and commercial/industrial land use scenarios were evaluated and discussed below by decision unit area. This environmental hazard evaluation includes instances where a specific AL or EAL (i.e. direct exposure, gross contamination, leaching, etc.) was exceeded. As indicated, TPH-O and total lead were considered the COPC for this site based on data obtained during this site investigation. A summary of the current TPH-O and total lead DOH EALs (obtained from the DOH HEER Office's March 2009 EAL SURFER program) for soil in areas where a drinking water source is not threatened and where the nearest surface water body is located within 150 meters of the site is provided in Table 5 below.

Table 5: DOH EALs for Soil

Contaminant	Leaching Threat to Groundwater	Terrestrial Ecological Impacts	Residential (Unrestricted) Land Use		Commercial/Industrial Land Use	
			Direct Exposure	Gross Contamination	Direct Exposure	Gross Contamination
TPH-O	1,000	—	2,500	500	31,000	2,500
Lead	—	200	400	1,000	800	2,500

All values in milligrams per kilogram (mg/kg) unless otherwise noted

The COPC concentrations in the soil samples collected during the site investigation were considered to be representative of the concentrations throughout each decision unit. The findings of the site investigation shown in Tables 3 through 4 above include the following:

- Adjusted average concentration of TPH-O in DU6 and DU12 (replicate of DU3) exceed default DOH EALs.
- Reported average concentration of total lead in DU11 exceed default DOH EALs.

The COPC listed above were associated with concentrations detected in the multi-increment soil samples that exceed the default DOH EALs. These default EALs are the lowest EALs assuming unrestricted land use, groundwater beneath the site is not a current or potential drinking water source, and the nearest surface water body is less than 150 meters from the site. A comparison of COPC concentrations that exceed default DOH EALs to all existing DOH EALs are presented in Table 6.

Table 6: Potential Environmental Hazards

Decision Unit/ Contaminant	Leaching Threat to Groundwater	Terrestrial Ecological Impacts		Residential (Unrestricted) Land Use		Commercial/Industrial Land Use	
		Direct Exposure	Gross Contamination	Direct Exposure	Gross Contamination	Direct Exposure	Gross Contamination
DU6							
TPH-O	N ¹		X				
DU11							
Lead		X		X	N ¹	X	
DU3 (replicate)							
TPH-O					X ¹		

1 - Reported concentration plus MSD exceeds EAL.

The analytical data indicated that elevated concentrations of TPH-O were initially detected in the multi-increment soil samples collected from DU6 and DU12 (replicate of DU3). Specifically, a reported average TPH-O concentration of 730 mg/kg was reported for the multi-increment soil sample collected from DU6 and an adjusted value of 589 mg/kg was reported for DU12. Reported average concentration for DU6 and the adjusted value (reported average concentration plus RSD) for DU12 exceeded the DOH EAL of 500 mg/kg pertaining to gross contamination concerns associated with unrestricted land use. The adjusted value for DU6 (1,228 mg/kg) also exceeded the DOH EAL pertaining to leaching (1,000 mg/kg) concerns. Note that DOH EALs pertaining to direct exposure (2,300 mg/kg) concerns associated with unrestricted land use were not exceeded.

Analytical results indicated that soil collected from DU11 contained an average total lead concentration of 830 mg/kg, which exceeds the initial AL of 200 mg/kg. The detected total lead concentration also exceeded the DOH EAL of 400 mg/kg and 800 mg/kg pertaining to direct exposure concerns associated with unrestricted and commercial/industrial land use, respectively. Based on these findings, ETC further subdivided DU11 into eight approximate 0.5-acre DUs and collected a multi-increment surface soil sample from each of the eight DUs. Analytical results for the additional investigation of DU11 indicated that average total lead concentrations for all eight DUs were well below the project defined AL of 200 mg/kg.

10.2 Summary of Potential Environmental Hazards

Currently, the Property is undeveloped. However, ETC understands that during the recent land sale of the property, the "new" and "former" land owner agreed to accept a commercial/industrial land use limitation for the property. As such, there are no plans for residential development or development for use by sensitive receptors (i.e. daycare center, school for children, hospital, etc.). Therefore, gross contamination concerns associated with unrestricted land use would not be considered a significant environmental hazard for this Property and will be removed from consideration.

An adjusted TPH-O value (1,228 mg/kg) was reported at a concentration exceeding the EAL pertaining to soil leaching EALs in DU6. Although groundwater was not evaluated as part of this site investigation, a previous groundwater investigation indicated that none of the regulated drinking water contaminants were identified at levels of concern. In addition, the DOH HEER Office generally considers soil leaching EALs associated with petroleum-related constituents to be excessively conservative. For example, as noted in the EHE Document, TPH-O is considered to be biodegradable and "can be expected to naturally degrade over time." The model is also based on a much higher rainfall than is received in Puunene, Hawaii. In addition, the leaching EAL does not consider drinking water utility status (i.e. drinking water vs. non-drinking water) and, as noted in the EHE Document, the leaching EAL is based on the California EPA Los Angeles Regional Water Board's proposed action level of 1,000 mg/kg, which applies to drinking water aquifers in which the depth to groundwater is less than 20 feet (CRWQCB, 1996). Note that groundwater at the Property is considered to be non-drinking water and groundwater is anticipated at a depth greater than 100 feet. Based on this information, soil leaching concerns associated with petroleum-related constituents do not appear to be a significant concern. Therefore, soil leaching would not be considered a significant environmental hazard for this site and will be removed from consideration.

Initial site investigation results for DU11 indicated an average total lead concentration of 830 mg/kg. Results for the additional investigation of DU11 indicated that average total lead concentrations for all eight DUs situated within DU11 were well below the project defined AL of 200 mg/kg. Based on these findings, ETC suspects that the deviation of these results from the initial DU11 findings may have been caused by nuggets or discrete pieces of lead within the soil. Therefore, based on the analytical results of the additional sampling activities, ETC suspects that the initial results for DU11 may not necessarily reflect the average lead concentrations that are likely to be encountered throughout DU11. In addition, given the future commercial/industrial land use of the Property coupled with the results of the additional sampling activities, potential plant uptake is not considered a concern. Therefore, based on the data, lead was removed from consideration as a contaminant of concern for the Property.

11.0 CONCLUSIONS

The site investigation described herein was performed to assess the Property for contaminant impacts associated with the former solid waste operations and cleanup on the Property. The multi-increment samples collected from the site were intended to represent mean concentrations throughout the potential contaminant source areas. As such, the data obtained provides mean concentrations of COPC for use in evaluating potential environmental concerns.

The analytical data indicated that TPH-O and lead were initially detected at concentrations exceeding default DOH EALs. These COPC were evaluated further considering the future commercial/industrial land use of the site. Based on review of the data obtained from this site investigation and comparison of COPC concentrations to applicable DOH EALs, there appear to be no retained environmental hazards for the site. As such, no further action appears necessary to address concerns associated with the former solid waste operations on the Property.

12.0 REFERENCES

- California Regional Water Quality Control Board, Los Angeles Region (CRWQCB). May 1996. *Interim Site Assessment and Cleanup Guidebook: California Environmental Protection Agency*.
- DOH. Summer 2008 (updated in March 2009). *Evaluation of Environmental Hazards at Sites with Contaminated Soil and Groundwater*.
- EnviroServices & Training Center, LLC (ETC). February 2011. *Site Investigation Work Plan, Former Puunene Piggy, South Firebreak Road, Puunene, Maui, Hawaii, TMK (2) 3-8-8; Parcel 19*.
- EnviroServices & Training Center, LLC (ETC). February 2011. *Addendum - February 2011 Site Investigation Work Plan, South Firebreak Road, Puunene, Maui, Hawaii, TMK (2) 3-8-8; Parcel 19*.
- EnviroServices & Training Center, LLC (ETC). June 2011. *Addendum No. 2, February 2011 Site Investigation Work Plan, Former Puunene Piggy, South Firebreak Road, Puunene, Maui, Hawaii, TMK (2) 3-8-8; Parcel 19*.
- Macdonald, G.A., Abbot, A.T., and Peterson, F.L. 1983. *Volcanoes and the Sea*. University of Hawaii Press.
- Mink, John F. and Lau, Stephen L. February 1990. *Aquifer Identification and Classification for Maui: Groundwater Protection Strategy for Hawaii*.
- State of Hawaii. June 2009. *Interim Final Technical Guidance Manual for the Implementation of the Hawaii State Contingency Plan (Available Sections)*.
- U.S. Department of Agriculture (USDA). Soil Conservation Service. August 1972. *Soil Survey of Islands of Kauai, Oahu, Maui, Molokai, and Lanai, State of Hawaii*.
- U.S. Environmental Protection Agency (EPA). SW-846 On-Line. *Test Methods for Evaluating Solid Waste, Physical Chemical Methods*.
- U.S. EPA. January 2000. *Data Quality Objectives Process for Hazardous Waste Site Investigations (EPA QA-G-4) Final*. EPA/600/R-00/007.
- U.S. EPA. November 2003. *Guidance for Obtaining Representative Laboratory Analytical Subsamples from Particulate Laboratory Samples*. EPA/600/R-03/027.

Figure 1 - Site Location Map
 Puu Lehu
 South Firebreak Road
 Puu Lehu, Maui, Hawaii
 TMK (2) 3-8-8, Parcel 19

Project Site

EnviroServices & Training Center, LLC

Project No.
 06-2048

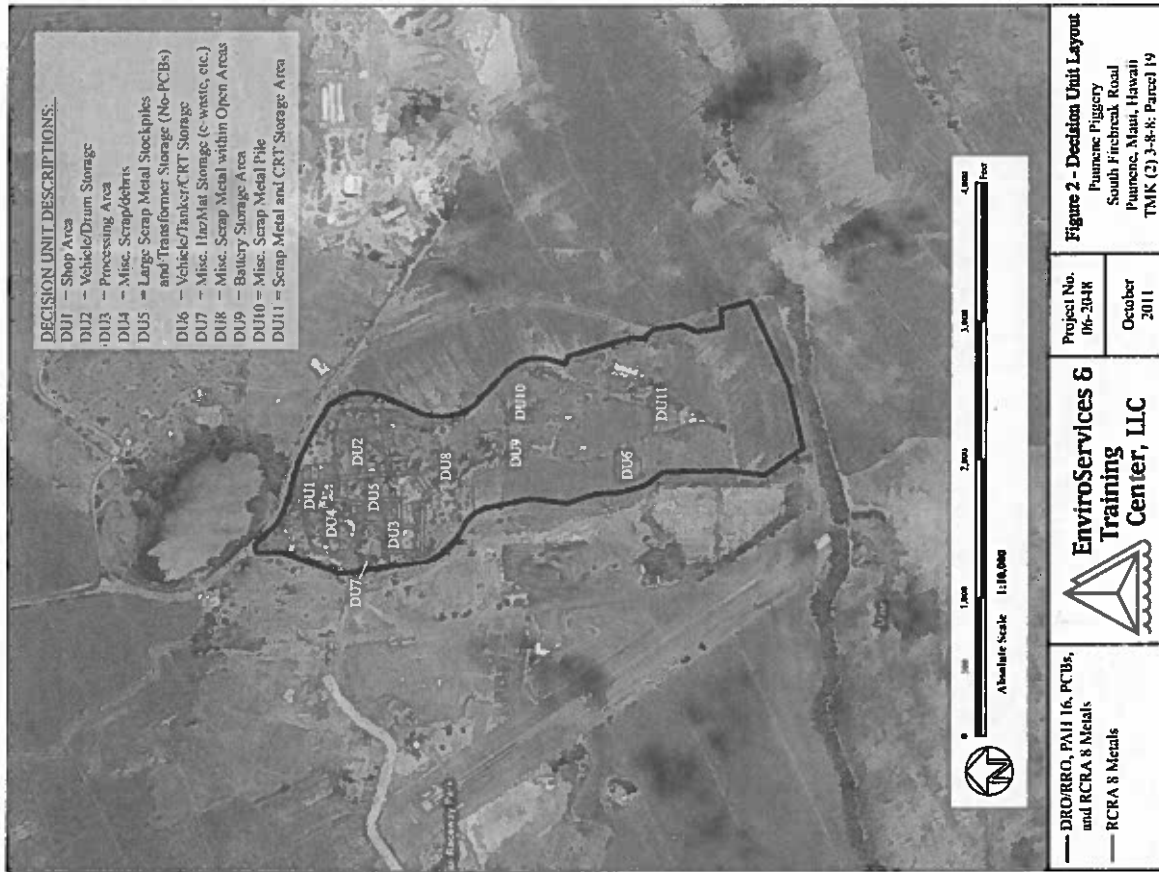
Date
 October 2011

Scale
 Absolute Scale 1:2,000

North Arrow



**EnviroServices &
Training
Center, LLC**





EnviroServices & Training Center (ETC)

505 Ward Avenue

Suite 202

Honolulu, Hawaii 96814

Tel: 808-839-7222

Fax: 808-839-4455

RE: 05-2048 Puuene Piggery

Work Order No.: 1103019

APPENDIX III Laboratory Reports

Dear Sharla Nakashima:

Torrent Laboratory, Inc. received 13 sample(s) on March 03, 2011 for the analyses presented in the following Report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1981. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

Patti Sandrock

March 10, 2011

Date



Date: 3/10/2011

Client: EnviroServices & Training Center (ETC)

Project: 06-2048 Puente Piggery

Work Order: 1103019

CASE NARRATIVE

No issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Analytical Comments, General: For all samples -Note: Samples processed under Incremental Sampling Procedure SOP TCD0106. Sample collection date and time is reflective of Hawaiian Standard Time (HST) while all analytical dates and times are reflective of Pacific Standard Time (PST).

Analytical Comments for Multi Incremental method S_8270PAHSIM: ALL SAMPLES, Note: Per client request, whenever possible (where matrix interference does not preclude it), sample data is reported to the MDL. Results reported between the MDL and PQL are qualified with the appropriate "J" flag and should be considered as estimated values.

Analytical Comments for method S_8082, QC Analytical Batch ID 404181, Note: Surrogate recovery for DCBP in the LCSID falls outside of the control limits (bias high). All affected samples are ND for the Anodors associated with DCBP. No corrective action is required.



Sample Result Summary

Report prepared for:

Sharda Nakashima

EnviroServices & Training Center (ETC)

Date Received: 03/03/11

Date Reported: 03/10/11

1103019-001

2048.D1U1

Parameters:	Analysis Method	DE	MDL	PQL	Results	Unit
Arsenic	SW6010B	1	0.0560	0.34	2.3	mg/Kg
Barium	SW6010B	1	0.0220	1.0	180	mg/Kg
Chromium	SW6010B	1	0.0120	1.0	50	mg/Kg
Lead	SW6010B	1	0.0740	0.260	71	mg/Kg
Selenium	SW6010B	1	0.0580	1.0	2.6	mg/Kg
Silver	SW6010B	1	0.0400	0.26	6.7	mg/Kg
TPH as Motor Oil	SW6015B(M)	3	4.95	12	190	mg/Kg
2-Methylnaphthalene	SW6270C	1	0.01049	0.0327	0.014	mg/Kg
Phenanthrene	SW6270C	1	0.01346	0.0327	0.020	mg/Kg
Fluoranthene	SW6270C	1	0.01624	0.0327	0.043	mg/Kg
Pyrene	SW6270C	1	0.01261	0.0327	0.023	mg/Kg
Chrysene	SW6270C	1	0.01168	0.0657	0.021	mg/Kg
Benzofluoranthene	SW6270C	1	0.01340	0.0327	0.026	mg/Kg

2048.D1U2

1103019-002

Parameters:	Analysis Method	DE	MDL	PQL	Results	Unit
Arsenic	SW6010B	1	0.0560	0.34	3.1	mg/Kg
Barium	SW6010B	1	0.0220	1.0	180	mg/Kg
Chromium	SW6010B	1	0.0120	1.0	59	mg/Kg
Lead	SW6010B	1	0.0740	0.260	4.5	mg/Kg
Silver	SW6010B	1	0.0400	0.26	4.9	mg/Kg
2-Methylnaphthalene	SW6270C	1	0.01049	0.0327	0.016	mg/Kg
Debenzofluoranthene	SW6270C	1	0.004488	0.0327	0.0069	mg/Kg
TPH as Diesel	SW6015B(M)	1	0.759	2.0	4.0	mg/Kg
TPH as Motor Oil	SW6015B(M)	1	65	4.0	25	mg/Kg



Sample Result Summary

Report prepared for: Shari Nakashima
EnviroServices & Training Center (ETC)

Date Received: 03/03/11
Date Reported: 03/10/11

2048.D113

1103019-003

Parameters:	Analysis Method	DE	MDL	PQL	Results	Unit
Arsenic	SW6010B	1	0.0560	0.34	2.1	mg/kg
Barium	SW6010B	1	0.0220	1.0	3.0	mg/kg
Chromium	SW6010B	1	0.0120	1.0	67	mg/kg
Lead	SW6010B	1	0.0740	0.260	17	mg/kg
Selenium	SW6010B	1	0.0580	1.0	2.6	mg/kg
Silver	SW6010B	1	0.0400	0.26	7.2	mg/kg

2-Methylnaphthalene	SW6270C	1	0.01049	0.0327	0.015	mg/kg
Phenanthrene	SW6270C	1	0.01346	0.0327	0.014	mg/kg
Fluoranthene	SW6270C	1	0.01624	0.0327	0.026	mg/kg
Pyrene	SW6270C	1	0.01261	0.0327	0.017	mg/kg
Chrysene	SW6270C	1	0.01168	0.0657	0.013	mg/kg
Benzo(b)fluoranthene	SW6270C	1	0.01340	0.0327	0.018	mg/kg
Dibenz(a,h)anthracene	SW6270C	1	0.004488	0.0327	0.0070	mg/kg
TPH as Diesel	SW6015B(M)	1	0.759	2.0	6.8	mg/kg
TPH as Motor Oil	SW6015B(M)	1	1.65	4.0	100	mg/kg



Sample Result Summary

Report prepared for: Shari Nakashima
EnviroServices & Training Center (ETC)

Date Received: 03/03/11
Date Reported: 03/10/11

2048.D114

1103019-004

Parameters:	Analysis Method	DE	MDL	PQL	Results	Unit
Arsenic	SW6010B	1	0.0560	0.34	2.1	mg/kg
Barium	SW6010B	1	0.0220	1.0	200	mg/kg
Chromium	SW6010B	1	0.0120	1.0	39	mg/kg
Lead	SW6010B	1	0.0740	0.260	13	mg/kg
Selenium	SW6010B	1	0.0580	1.0	1.6	mg/kg
Silver	SW6010B	1	0.0400	0.26	8.1	mg/kg

Naphthalene	SW6270C	1	0.01544	0.0327	0.023	mg/kg
2-Methylnaphthalene	SW6270C	1	0.01049	0.0327	0.020	mg/kg
Fluoranthene	SW6270C	1	0.01624	0.0327	0.020	mg/kg
TPH as Diesel	SW6015B(M)	1	0.759	2.0	3.8	mg/kg
TPH as Motor Oil	SW6015B(M)	1	1.65	4.0	69	mg/kg

2048.D115

1103019-005

Parameters:	Analysis Method	DE	MDL	PQL	Results	Unit
Arsenic	SW6010B	1	0.0560	0.34	2.6	mg/kg
Barium	SW6010B	1	0.0220	1.0	270	mg/kg
Chromium	SW6010B	1	0.0120	1.0	62	mg/kg
Lead	SW6010B	1	0.0740	0.260	10	mg/kg
Silver	SW6010B	1	0.0400	0.26	7.0	mg/kg

Naphthalene	SW6270C	1	0.01544	0.0327	0.018	mg/kg
2-Methylnaphthalene	SW6270C	1	0.01049	0.0327	0.022	mg/kg
Pyrene	SW6270C	1	0.01261	0.0327	0.021	mg/kg
Chrysene	SW6270C	1	0.01168	0.0657	0.021	mg/kg
Benzo(b)fluoranthene	SW6270C	1	0.01340	0.0327	0.022	mg/kg
TPH as Diesel	SW6015B(M)	1	0.759	2.0	4.9	mg/kg
TPH as Motor Oil	SW6015B(M)	1	1.65	4.0	110	mg/kg



Sample Result Summary

Report prepared for: Sharda Nakashima
EnviroServices & Training Center (ETC)
2048.DU6
Date Received: 03/03/11
Date Reported: 03/10/11
1103019-006

Parameters:	Analyte Method	DE	MDL	EOL	Results	Unit
Arsenic	SW6010B	1	0.0560	0.34	3.0	mg/Kg
Barium	SW6010B	1	0.0220	1.0	190	mg/Kg
Chromium	SW6010B	1	0.0120	1.0	44	mg/Kg
Lead	SW6010B	1	0.0740	0.260	33	mg/Kg
Selenium	SW6010B	1	0.0580	1.0	1.9	mg/Kg
Silver	SW6010B	1	0.0400	0.26	6.3	mg/Kg

Naphthalene
2-Methylnaphthalene
Phenanthrene
Benz[a]anthracene
Chrysene
Benzo[b]fluoranthene
Benzo[a]pyrene
Benzo[ghi]perylene

TPH as Diesel TPH as Motor Oil	SW6015B(M) SW6015B(M)	10 10	7.59 16.5	20 40	130 730	mg/Kg mg/Kg
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2048.DU7

Parameters:	Analyte Method	DE	MDL	EOL	Results	Unit
Arsenic	SW6010B	1	0.0560	0.34	3.4	mg/Kg
Barium	SW6010B	1	0.0220	1.0	250	mg/Kg
Chromium	SW6010B	1	0.0120	1.0	85	mg/Kg
Lead	SW6010B	1	0.0740	0.260	110	mg/Kg
Selenium	SW6010B	1	0.0580	1.0	1.4	mg/Kg
Silver	SW6010B	1	0.0400	0.26	6.0	mg/Kg

Total Page Count: 41

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Sample Result Summary

Report prepared for: Sharda Nakashima
EnviroServices & Training Center (ETC)
2048.DU8
Date Received: 03/03/11
Date Reported: 03/10/11
1103019-008

Parameters:	Analyte Method	DE	MDL	EOL	Results	Unit
Arsenic	SW6010B	1	0.0560	0.34	4.5	mg/Kg
Barium	SW6010B	1	0.0220	1.0	210	mg/Kg
Chromium	SW6010B	1	0.0120	1.0	56	mg/Kg
Lead	SW6010B	1	0.0740	0.260	11	mg/Kg
Selenium	SW6010B	1	0.0580	1.0	2.6	mg/Kg
Silver	SW6010B	1	0.0400	0.26	6.9	mg/Kg

2048.DU9

Parameters:	Analyte Method	DE	MDL	EOL	Results	Unit
Arsenic	SW6010B	1	0.0560	0.34	3.9	mg/Kg
Barium	SW6010B	1	0.0220	1.0	220	mg/Kg
Chromium	SW6010B	1	0.0120	1.0	43	mg/Kg
Lead	SW6010B	1	0.0740	0.260	24	mg/Kg
Selenium	SW6010B	1	0.0580	1.0	2.3	mg/Kg
Silver	SW6010B	1	0.0400	0.26	7.7	mg/Kg

2048.DU10

Parameters:	Analyte Method	DE	MDL	EOL	Results	Unit
Arsenic	SW6010B	1	0.0560	0.34	3.8	mg/Kg
Barium	SW6010B	1	0.0220	1.0	210	mg/Kg
Chromium	SW6010B	1	0.0120	1.0	49	mg/Kg
Lead	SW6010B	1	0.0740	0.260	18	mg/Kg
Selenium	SW6010B	1	0.0580	1.0	3.1	mg/Kg
Silver	SW6010B	1	0.0400	0.26	10	mg/Kg

Total Page Count: 41

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Sample Result Summary

Report prepared for: Sharda Nakashima
EnviroServices & Training Center (ETC)
2048.DU11

Date Received: 03/03/11
Date Reported: 03/10/11
1103019-011

Parameter:	Analysis Method	DE	MDL	PQL	Results	Unit
Arsenic	SW6010B	1	0.0560	0.34	4.0	mg/Kg
Barium	SW6010B	1	0.0220	1.0	230	mg/Kg
Chromium	SW6010B	1	0.0120	1.0	47	mg/Kg
Lead	SW6010B	1	0.0740	0.260	830	mg/Kg
Silver	SW6010B	1	0.0400	0.26	7.5	mg/Kg

2048.DU12

Parameter:	Analysis Method	DE	MDL	PQL	Results	Unit
Arsenic	SW6010B	1	0.0560	0.34	4.5	mg/Kg
Barium	SW6010B	1	0.0220	1.0	330	mg/Kg
Chromium	SW6010B	1	0.0120	1.0	74	mg/Kg
Lead	SW6010B	1	0.0740	0.260	29	mg/Kg
Selenium	SW6010B	1	0.0580	1.0	1.6	mg/Kg
Silver	SW6010B	1	0.0400	0.26	8.3	mg/Kg

Naphthalene	SW6270C	1	0.01544	0.0327	0.033	mg/Kg
2-Methylnaphthalene	SW6270C	1	0.01049	0.0327	0.032	mg/Kg
1-Methylnaphthalene	SW6270C	1	0.01049	0.0327	0.014	mg/Kg
Fluorene	SW6270C	1	0.005544	0.0327	0.0084	mg/Kg
Phenanthrene	SW6270C	1	0.01348	0.0327	0.080	mg/Kg
Fluoranthene	SW6270C	1	0.01624	0.0327	0.14	mg/Kg
Pyrene	SW6270C	1	0.01281	0.0327	0.085	mg/Kg
Benzofluoranthene	SW6270C	1	0.01873	0.0327	0.045	mg/Kg
Chrysene	SW6270C	1	0.01163	0.0327	0.064	mg/Kg
Benzofluoranthene	SW6270C	1	0.01340	0.0327	0.089	mg/Kg
Benzofluoranthene	SW6270C	1	0.006848	0.0327	0.083	mg/Kg
Benzofluoranthene	SW6270C	1	0.01485	0.0327	0.032	mg/Kg
Dibenzofluoranthene	SW6270C	1	0.004488	0.0327	0.017	mg/Kg
Benzofluoranthene	SW6270C	1	0.004850	0.0327	0.035	mg/Kg
TPH as Diesel	SW8015B(M)	5	3.80	9.8	11	mg/Kg
TPH as Motor Oil	SW8015B(M)	5	8.25	20	350	mg/Kg

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Total Page Count: 41

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Sample Result Summary

Report prepared for: Sharda Nakashima
EnviroServices & Training Center (ETC)
2048.DU13

Date Received: 03/03/11
Date Reported: 03/10/11
1103019-013

Parameter:	Analysis Method	DE	MDL	PQL	Results	Unit
Arsenic	SW6010B	1	0.0560	0.34	2.4	mg/Kg
Barium	SW6010B	1	0.0220	1.0	310	mg/Kg
Chromium	SW6010B	1	0.0120	1.0	78	mg/Kg
Lead	SW6010B	1	0.0740	0.260	8.1	mg/Kg
Selenium	SW6010B	1	0.0560	1.0	3.0	mg/Kg
Silver	SW6010B	1	0.0400	0.26	7.7	mg/Kg

2-Methylnaphthalene	SW6270C	1	0.01049	0.0327	0.016	mg/Kg
Phenanthrene	SW6270C	1	0.01346	0.0327	0.041	mg/Kg
Fluoranthene	SW6270C	1	0.01624	0.0327	0.28	mg/Kg
Pyrene	SW6270C	1	0.01281	0.0327	0.20	mg/Kg
Benzofluoranthene	SW6270C	1	0.01973	0.0327	0.10	mg/Kg
Chrysene	SW6270C	1	0.01168	0.0327	0.12	mg/Kg
Benzofluoranthene	SW6270C	1	0.01340	0.0327	0.11	mg/Kg
Benzofluoranthene	SW6270C	1	0.006846	0.0327	0.037	mg/Kg
Benzofluoranthene	SW6270C	1	0.01485	0.0327	0.054	mg/Kg
Indeno[1,2,3-cd]pyrene	SW6270C	1	0.003316	0.0327	0.030	mg/Kg
Dibenzofluoranthene	SW6270C	1	0.004488	0.0327	0.015	mg/Kg
TPH as Diesel	SW8015B(M)	2	1.52	4.0	7.6	mg/Kg
TPH as Motor Oil	SW8015B(M)	2	3.30	7.9	140	mg/Kg

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Total Page Count: 41

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SAMPLE RESULTS

Report prepared for: Shari Nakashima
EnviroServices & Training Center (ETC)

Date Received: 03/03/11
Data Reported: 03/10/11

Client Sample ID: 2048.DU1
Project Name/Location: 06-2048 Puente Piggery
Sample Matrix: Soil
Lab Sample ID: 1103019-001A
Project Number: 03/01/11/9:15
Date/Time Sampled: 06-2048 Puente Piggery
Tag Number:

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Unit	Lab Qualifier	Analytical Batch	Prep Batch
Arsenic	SW60108	3/7/11	03/08/11	1	0.0560	0.34	2.3	mg/Kg		404180	2183
Barium	SW60108	3/7/11	03/08/11	1	0.0220	1.0	160	mg/Kg		404180	2183
Cadmium	SW60108	3/7/11	03/08/11	1	0.0120	1.0	ND	mg/Kg		404180	2183
Chromium	SW60108	3/7/11	03/08/11	1	0.0120	1.0	50	mg/Kg		404180	2183
Lead	SW60108	3/7/11	03/08/11	1	0.0740	0.260	71	mg/Kg		404180	2183
Selenium	SW60108	3/7/11	03/08/11	1	0.0560	1.0	2.6	mg/Kg		404180	2183
Silver	SW60108	3/7/11	03/08/11	1	0.0400	0.28	6.7	mg/Kg		404180	2183
Mercury	7471B	3/6/11	03/08/11	1	0.05	0.10	ND	mg/Kg		404178	2181
Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Unit	Lab Qualifier	Analytical Batch	Prep Batch
Aroclor 1018	SW6002	3/6/11	03/07/11	1	0.0230	0.10	ND	mg/Kg		404181	2185
Aroclor 1221	SW6002	3/6/11	03/07/11	1	0.0920	0.20	ND	mg/Kg		404181	2185
Aroclor 1232	SW6002	3/6/11	03/07/11	1	0.0460	0.10	ND	mg/Kg		404181	2185
Aroclor 1242	SW6002	3/6/11	03/07/11	1	0.0430	0.10	ND	mg/Kg		404181	2185
Aroclor 1248	SW6002	3/6/11	03/07/11	1	0.0360	0.10	ND	mg/Kg		404181	2185
Aroclor 1254	SW6002	3/6/11	03/07/11	1	0.0240	0.10	ND	mg/Kg		404181	2185
Aroclor 1260	SW6002	3/6/11	03/07/11	1	0.0270	0.10	ND	mg/Kg		404181	2185
TCMX (S)	SW6002	3/6/11	03/07/11	1	50.4	136	92.6	%		404181	2185
DCBP (S)	SW6002	3/6/11	03/07/11	1	55.1	113	103	%		404181	2185



SAMPLE RESULTS

Report prepared for: Shari Nakashima
EnviroServices & Training Center (ETC)

Date Received: 03/03/11
Data Reported: 03/10/11

Client Sample ID: 2048.DU1
Project Name/Location: 06-2048 Puente Piggery
Sample Matrix: Soil
Lab Sample ID: 1103019-001A
Project Number: 03/01/11/9:15
Date/Time Sampled: 06-2048 Puente Piggery
Tag Number:

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Unit	Lab Qualifier	Analytical Batch	Prep Batch
The results shown below are reported using their MDL.											
Naphthalene	SW6270C	3/7/11	03/08/11	1	0.01544	0.0327	ND	mg/Kg		404201	2184
2-Methylnaphthalene	SW6270C	3/7/11	03/08/11	1	0.01049	0.0327	0.014	mg/Kg		404201	2184
1-Methylnaphthalene	SW6270C	3/7/11	03/08/11	1	0.01049	0.0327	ND	mg/Kg		404201	2184
Acenaphthylene	SW6270C	3/7/11	03/08/11	1	0.00934	0.0327	ND	mg/Kg		404201	2184
Acenaphthene	SW6270C	3/7/11	03/08/11	1	0.01062	0.0327	ND	mg/Kg		404201	2184
Fluorene	SW6270C	3/7/11	03/08/11	1	0.005544	0.0327	ND	mg/Kg		404201	2184
Phenanthrene	SW6270C	3/7/11	03/08/11	1	0.01346	0.0327	0.029	mg/Kg		404201	2184
Anthracene	SW6270C	3/7/11	03/08/11	1	0.01716	0.0327	ND	mg/Kg		404201	2184
Fluoranthene	SW6270C	3/7/11	03/08/11	1	0.01624	0.0327	0.043	mg/Kg		404201	2184
Pyrene	SW6270C	3/7/11	03/08/11	1	0.01281	0.0327	0.023	mg/Kg		404201	2184
Benzo[a]anthracene	SW6270C	3/7/11	03/08/11	1	0.01873	0.0327	ND	mg/Kg		404201	2184
Chrysene	SW6270C	3/7/11	03/08/11	1	0.01168	0.0657	0.021	mg/Kg		404201	2184
Benzo[b]fluoranthene	SW6270C	3/7/11	03/08/11	1	0.01340	0.0327	0.026	mg/Kg		404201	2184
Benzo[k]fluoranthene	SW6270C	3/7/11	03/08/11	1	0.008646	0.0327	ND	mg/Kg		404201	2184
Benzo[a]pyrene	SW6270C	3/7/11	03/08/11	1	0.01485	0.0327	ND	mg/Kg		404201	2184
Indeno[1,2,3-cd]pyrene	SW6270C	3/7/11	03/08/11	1	0.008318	0.0327	ND	mg/Kg		404201	2184
Dibenz[a,h]anthracene	SW6270C	3/7/11	03/08/11	1	0.004488	0.0327	ND	mg/Kg		404201	2184
Benzo[g,h,i]perylene	SW6270C	3/7/11	03/08/11	1	0.004950	0.0327	ND	mg/Kg		404201	2184
2-Fluorobiphenyl (S)	SW6270C	3/7/11	03/08/11	1	25	91.5	73.6	%		404201	2184
p-Terphenyl-414 (S)	SW6270C	3/7/11	03/08/11	1	24.3	129	91.5	%		404201	2184
Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Unit	Lab Qualifier	Analytical Batch	Prep Batch
TPH as Diesel	SW8015B(M)	3/6/11	03/08/11	3	2.28	5.9	ND	mg/Kg		404181	2177
TPH as Motor Oil	SW8015B(M)	3/6/11	03/08/11	3	4.95	12	190	mg/Kg		404181	2177
Polycyclic Aromatic Hydrocarbons (S)	SW8015B(M)	3/6/11	03/08/11	3	59.7	129	77.4	mg/Kg		404181	2177



SAMPLE RESULTS

Report prepared for: Shanta Nakashima
EnviroServices & Training Center (ETC)

Date Received: 03/03/11
Date Reported: 03/10/11

Client Sample ID: 2048.DJ2 Lab Sample ID: 1103019-002A
Project Name/Location: 06-2048 Puente Piquery Soil
Project Number: 0301/11 / 9-45 Sample Matrix:
Date/Time Sampled: 06-2048 Puente Piquery
Tag Number:

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Arsenic	SW6270C	3/7/11	03/08/11	1	0.0560	0.34	3.1		mg/Kg	404180	2193
Barium	SW6270C	3/7/11	03/08/11	1	0.0220	1.0	180		mg/Kg	404180	2193
Cadmium	SW6270C	3/7/11	03/08/11	1	0.0120	1.0	ND		mg/Kg	404180	2193
Chromium	SW6270C	3/7/11	03/08/11	1	0.0120	1.0	59		mg/Kg	404180	2193
Lead	SW6270C	3/7/11	03/08/11	1	0.0740	0.260	4.5		mg/Kg	404180	2193
Selenium	SW6270C	3/7/11	03/08/11	1	0.0580	1.0	ND		mg/Kg	404180	2193
Silver	SW6270C	3/7/11	03/08/11	1	0.0400	0.26	4.9		mg/Kg	404180	2193
Mercury	74716	3/6/11	03/09/11	1	0.05	0.10	ND		mg/Kg	404179	2191
Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Aroclor 1018	SW6082	3/6/11	03/07/11	1	0.0230	0.10	ND		mg/Kg	404181	2185
Aroclor 1221	SW6082	3/6/11	03/07/11	1	0.0920	0.20	ND		mg/Kg	404181	2185
Aroclor 1232	SW6082	3/6/11	03/07/11	1	0.0460	0.10	ND		mg/Kg	404181	2185
Aroclor 1242	SW6082	3/6/11	03/07/11	1	0.0430	0.10	ND		mg/Kg	404181	2185
Aroclor 1248	SW6082	3/6/11	03/07/11	1	0.0360	0.10	ND		mg/Kg	404181	2185
Aroclor 1254	SW6082	3/6/11	03/07/11	1	0.0240	0.10	ND		mg/Kg	404181	2185
Aroclor 1260	SW6082	3/6/11	03/07/11	1	0.0270	0.10	ND		mg/Kg	404181	2185
TCDF (S)	SW6082	3/6/11	03/07/11	1	50.4	136	116		%	404181	2185
DCBP (S)	SW6082	3/6/11	03/07/11	1	55.1	113	95.2		%	404181	2185



SAMPLE RESULTS

Report prepared for: Shanta Nakashima
EnviroServices & Training Center (ETC)

Date Received: 03/03/11
Date Reported: 03/10/11

Client Sample ID: 2048.DJ2 Lab Sample ID: 1103019-002A
Project Name/Location: 06-2048 Puente Piquery Soil
Project Number: 0301/11 / 9-45 Sample Matrix:
Date/Time Sampled: 06-2048 Puente Piquery
Tag Number:

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
The results shown below are reported using their MDL.											
Naphthalene	SW6270C	3/7/11	03/08/11	1	0.01544	0.0327	ND		mg/Kg	404201	2194
2-Methyl-naphthalene	SW6270C	3/7/11	03/08/11	1	0.01049	0.0327	0.015	J	mg/Kg	404201	2194
1-Methyl-naphthalene	SW6270C	3/7/11	03/08/11	1	0.00934	0.0327	ND		mg/Kg	404201	2194
Acenaphthylene	SW6270C	3/7/11	03/08/11	1	0.01082	0.0327	ND		mg/Kg	404201	2194
Acenaphthene	SW6270C	3/7/11	03/08/11	1	0.00544	0.0327	ND		mg/Kg	404201	2194
Fluorene	SW6270C	3/7/11	03/08/11	1	0.01348	0.0327	ND		mg/Kg	404201	2194
Phenanthrene	SW6270C	3/7/11	03/08/11	1	0.01716	0.0327	ND		mg/Kg	404201	2194
Anthracene	SW6270C	3/7/11	03/08/11	1	0.01624	0.0327	ND		mg/Kg	404201	2194
Fluoranthene	SW6270C	3/7/11	03/08/11	1	0.01973	0.0327	ND		mg/Kg	404201	2194
Pyrene	SW6270C	3/7/11	03/08/11	1	0.01281	0.0327	ND		mg/Kg	404201	2194
Benz[a]anthracene	SW6270C	3/7/11	03/08/11	1	0.01188	0.0637	ND		mg/Kg	404201	2194
Chrysene	SW6270C	3/7/11	03/08/11	1	0.01340	0.0327	ND		mg/Kg	404201	2194
Benzofluoranthene	SW6270C	3/7/11	03/08/11	1	0.00868	0.0327	ND		mg/Kg	404201	2194
Benzofluoranthene	SW6270C	3/7/11	03/08/11	1	0.008316	0.0327	ND		mg/Kg	404201	2194
Indeno[1,2,3-cd]pyrene	SW6270C	3/7/11	03/08/11	1	0.00485	0.0327	ND		mg/Kg	404201	2194
Dibenz[a,h]anthracene	SW6270C	3/7/11	03/08/11	1	0.004488	0.0327	0.0069	J	mg/Kg	404201	2194
Benzofluoranthene	SW6270C	3/7/11	03/08/11	1	0.004860	0.0327	ND		mg/Kg	404201	2194
2-Fluorobiphenyl (S)	SW6270C	3/7/11	03/08/11	1	25	81.6	67.6		%	404201	2194
p-Terphenyl-d14 (S)	SW6270C	3/7/11	03/08/11	1	24.3	129	101		%	404201	2194

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW8015B(M)	3/6/11	03/06/11	1	0.758	2.0	4.0		mg/Kg	404182	2177
TPH as Motor Oil	SW8015B(M)	3/6/11	03/06/11	1	1.65	4.0	25		mg/Kg	404182	2177
Pentacosane (S)	SW8015B(M)	3/6/11	03/06/11	1	59.7	129	93.2		mg/Kg	404182	2177

NOTE: x-Not typical of Diesel standard pattern (unknown discrete hydrocarbon peaks present).



SAMPLE RESULTS

Report prepared for: Sharda Nakashima
EnviroServices & Training Center (ETC)

Date Received: 03/03/11
Date Reported: 03/10/11

Client Sample ID: 2048.DJ3
Project Name/Location: 06-2048 Puente Piggery
Sample Matrix: Soil
Project Number: 1103019-003A
Date/Time Sampled: 03/01/11 / 7:05
Tag Number: 06-2048 Puente Piggery

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Unit	Lab Qualifier	Analytical Batch	Prep Batch
Arsenic	SW60108	3/7/11	03/08/11	1	0.0560	0.34	2.1	mg/Kg		404180	2193
Berium	SW60108	3/7/11	03/08/11	1	0.0220	1.0	330	mg/Kg		404180	2193
Cadmium	SW60108	3/7/11	03/08/11	1	0.0120	1.0	ND	mg/Kg		404180	2193
Chromium	SW60108	3/7/11	03/08/11	1	0.0120	1.0	67	mg/Kg		404180	2193
Lead	SW60108	3/7/11	03/08/11	1	0.0740	0.260	17	mg/Kg		404180	2193
Selenium	SW60108	3/7/11	03/08/11	1	0.0560	1.0	2.6	mg/Kg		404180	2193
Silver	SW60108	3/7/11	03/08/11	1	0.0400	0.26	7.2	mg/Kg		404180	2193

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Unit	Lab Qualifier	Analytical Batch	Prep Batch
Mercury	74718	3/6/11	03/09/11	1	0.05	0.10	ND	mg/Kg		404179	2191

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Unit	Lab Qualifier	Analytical Batch	Prep Batch
Aroclor1016	SW6082	3/6/11	03/07/11	1	0.0230	0.10	ND	mg/Kg		404181	2185
Aroclor1221	SW6082	3/6/11	03/07/11	1	0.0920	0.20	ND	mg/Kg		404181	2185
Aroclor1232	SW6082	3/6/11	03/07/11	1	0.0460	0.10	ND	mg/Kg		404181	2185
Aroclor1242	SW6082	3/6/11	03/07/11	1	0.0430	0.10	ND	mg/Kg		404181	2185
Aroclor1248	SW6082	3/6/11	03/07/11	1	0.0360	0.10	ND	mg/Kg		404181	2185
Aroclor1254	SW6082	3/6/11	03/07/11	1	0.0240	0.10	ND	mg/Kg		404181	2185
Aroclor1260	SW6082	3/6/11	03/07/11	1	0.0270	0.10	ND	mg/Kg		404181	2185
TCMX (S)	SW6082	3/6/11	03/07/11	1	50.4	136	110	%		404181	2185
DCBP (S)	SW6082	3/6/11	03/07/11	1	55.1	113	92.7	%		404181	2185



SAMPLE RESULTS

Report prepared for: Sharda Nakashima
EnviroServices & Training Center (ETC)

Date Received: 03/03/11
Date Reported: 03/10/11

Client Sample ID: 2048.DJ3
Project Name/Location: 06-2048 Puente Piggery
Sample Matrix: Soil
Project Number: 1103019-003A
Date/Time Sampled: 03/01/11 / 7:05
Tag Number: 06-2048 Puente Piggery

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Unit	Lab Qualifier	Analytical Batch	Prep Batch
The results shown below are reported using their MDL.											
Naphthalene	SW6270C	3/7/11	03/08/11	1	0.01644	0.0327	ND	mg/Kg		404201	2194
2-Methylanthracene	SW6270C	3/7/11	03/08/11	1	0.01049	0.0327	0.015	mg/Kg	J	404201	2194
1-Methylanthracene	SW6270C	3/7/11	03/08/11	1	0.01049	0.0327	ND	mg/Kg		404201	2194
Acenaphthylene	SW6270C	3/7/11	03/08/11	1	0.00934	0.0327	ND	mg/Kg		404201	2194
Acenaphthene	SW6270C	3/7/11	03/08/11	1	0.01062	0.0327	ND	mg/Kg		404201	2194
Fluorene	SW6270C	3/7/11	03/08/11	1	0.00544	0.0327	ND	mg/Kg		404201	2194
Phenanthrene	SW6270C	3/7/11	03/08/11	1	0.01346	0.0327	0.014	mg/Kg	J	404201	2194
Anthracene	SW6270C	3/7/11	03/08/11	1	0.01716	0.0327	ND	mg/Kg		404201	2194
Fluoranthene	SW6270C	3/7/11	03/08/11	1	0.01624	0.0327	0.026	mg/Kg	J	404201	2194
Pyrene	SW6270C	3/7/11	03/08/11	1	0.01281	0.0327	0.017	mg/Kg	J	404201	2194
Benz[a]anthracene	SW6270C	3/7/11	03/08/11	1	0.01673	0.0327	ND	mg/Kg		404201	2194
Chrysene	SW6270C	3/7/11	03/08/11	1	0.01168	0.0327	0.013	mg/Kg	J	404201	2194
Benz[b]fluoranthene	SW6270C	3/7/11	03/08/11	1	0.01340	0.0327	0.018	mg/Kg	J	404201	2194
Benz[k]fluoranthene	SW6270C	3/7/11	03/08/11	1	0.00848	0.0327	ND	mg/Kg		404201	2194
Indeno[1,2,3-cd]pyrene	SW6270C	3/7/11	03/08/11	1	0.01485	0.0327	ND	mg/Kg		404201	2194
Dibenz[a,h]anthracene	SW6270C	3/7/11	03/08/11	1	0.006316	0.0327	ND	mg/Kg		404201	2194
Benz[ghi]perylene	SW6270C	3/7/11	03/08/11	1	0.004488	0.0327	0.0070	mg/Kg	J	404201	2194
2-Fluorenylphenyl (S)	SW6270C	3/7/11	03/08/11	1	0.004930	0.0327	ND	mg/Kg		404201	2194
p-Terphenyl-d14 (S)	SW6270C	3/7/11	03/08/11	1	25	91.6	68.0	%		404201	2194
					24.3	129	96.0	%		404201	2194

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Unit	Lab Qualifier	Analytical Batch	Prep Batch
TPH as Diesel	SW60158(M)	3/6/11	03/06/11	1	0.759	2.0	6.8	mg/Kg	x	404192	2177
TPH as Motor Oil	SW60158(M)	3/6/11	03/06/11	1	1.65	4.0	100	mg/Kg		404192	2177
Pentacosane (S)	SW60158(M)	3/6/11	03/06/11	1	59.7	129	79.9	mg/Kg		404192	2177

NOTE: x-Not typical of Diesel standard pattern (unknown discrete hydrocarbon peaks present).



SAMPLE RESULTS

Report prepared for: Sharda Nakashima
EnviroServices & Training Center (ETC)

Date Received: 03/03/11
Date Reported: 03/10/11

Client Sample ID: 2048.DU4
Project Name/Location: 06-2048 Puente Piquery
Project Number: 03/01/11 / 10:30
Date/Time Sampled: 06-2048 Puente Piquery
Tag Number:

Lab Sample ID: 1103019-004A
Sample Matrix: Soil

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Unit	Lab Qualifier	Analytical Batch	Prep Batch
Arsenic	SW63010B	3/7/11	03/08/11	1	0.0560	0.34	2.1	mg/kg		404180	2193
Barium	SW63010B	3/7/11	03/08/11	1	0.0220	1.0	200	mg/kg		404180	2193
Cadmium	SW63010B	3/7/11	03/08/11	1	0.0120	1.0	ND	mg/kg		404180	2193
Chromium	SW63010B	3/7/11	03/08/11	1	0.0120	1.0	39	mg/kg		404180	2193
Lead	SW63010B	3/7/11	03/08/11	1	0.0740	0.260	13	mg/kg		404180	2193
Selenium	SW63010B	3/7/11	03/08/11	1	0.0560	1.0	1.6	mg/kg		404180	2193
Silver	SW63010B	3/7/11	03/08/11	1	0.0400	0.26	8.1	mg/kg		404180	2193
Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Unit	Lab Qualifier	Analytical Batch	Prep Batch
Mercury	7471B	3/6/11	03/09/11	1	0.05	0.10	ND	mg/kg		404179	2191
Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Unit	Lab Qualifier	Analytical Batch	Prep Batch
Acetone 1016	SW6302	3/6/11	03/07/11	1	0.0230	0.10	ND	mg/kg		404181	2185
Acetone 1221	SW6302	3/6/11	03/07/11	1	0.0920	0.20	ND	mg/kg		404181	2185
Acetone 1232	SW6302	3/6/11	03/07/11	1	0.0460	0.10	ND	mg/kg		404181	2185
Acetone 1242	SW6302	3/6/11	03/07/11	1	0.0430	0.10	ND	mg/kg		404181	2185
Acetone 1248	SW6302	3/6/11	03/07/11	1	0.0360	0.10	ND	mg/kg		404181	2185
Acetone 1254	SW6302	3/6/11	03/07/11	1	0.0240	0.10	ND	mg/kg		404181	2185
Acetone 1260	SW6302	3/6/11	03/07/11	1	0.0270	0.10	ND	mg/kg		404181	2185
TCMX (S)	SW6302	3/6/11	03/07/11	1	50.4	136	114	%		404181	2185
DCBP (S)	SW6302	3/6/11	03/07/11	1	55.1	113	99.9	%		404181	2185

Total Page Count: 41

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SAMPLE RESULTS

Report prepared for: Sharda Nakashima
EnviroServices & Training Center (ETC)

Date Received: 03/03/11
Date Reported: 03/10/11

Client Sample ID: 2048.DU4
Project Name/Location: 06-2048 Puente Piquery
Project Number: 03/01/11 / 10:30
Date/Time Sampled: 06-2048 Puente Piquery
Tag Number:

Lab Sample ID: 1103019-004A
Sample Matrix: Soil

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	POL	Results	Unit	Lab Qualifier	Prep Batch
Naphthalene	SW6270C	3/7/11	03/08/11	1	0.01544	0.0327	0.023	mg/Kg	404201	2194
2-Methylnaphthalene	SW6270C	3/7/11	03/08/11	1	0.01049	0.0327	ND	mg/Kg	404201	2194
1-Methylnaphthalene	SW6270C	3/7/11	03/08/11	1	0.00834	0.0327	ND	mg/Kg	404201	2194
Acenaphthylene	SW6270C	3/7/11	03/08/11	1	0.01082	0.0327	ND	mg/Kg	404201	2194
Acenaphthene	SW6270C	3/7/11	03/08/11	1	0.005544	0.0327	ND	mg/Kg	404201	2194
Fluorene	SW6270C	3/7/11	03/08/11	1	0.01346	0.0327	ND	mg/Kg	404201	2194
Phenanthrene	SW6270C	3/7/11	03/08/11	1	0.01716	0.0327	ND	mg/Kg	404201	2194
Anthracene	SW6270C	3/7/11	03/08/11	1	0.01624	0.0327	0.020	mg/Kg	404201	2194
Fluoranthene	SW6270C	3/7/11	03/08/11	1	0.01281	0.0327	ND	mg/Kg	404201	2194
Pyrene	SW6270C	3/7/11	03/08/11	1	0.01973	0.0327	ND	mg/Kg	404201	2194
Benzo[a]anthracene	SW6270C	3/7/11	03/08/11	1	0.01168	0.0327	ND	mg/Kg	404201	2194
Chrysene	SW6270C	3/7/11	03/08/11	1	0.01340	0.0327	ND	mg/Kg	404201	2194
Benzo[b]fluoranthene	SW6270C	3/7/11	03/08/11	1	0.008648	0.0327	ND	mg/Kg	404201	2194
Benzo[k]fluoranthene	SW6270C	3/7/11	03/08/11	1	0.01485	0.0327	ND	mg/Kg	404201	2194
Indeno[1,2,3-cd]pyrene	SW6270C	3/7/11	03/08/11	1	0.008316	0.0327	ND	mg/Kg	404201	2194
Dibenz[a,h]anthracene	SW6270C	3/7/11	03/08/11	1	0.004486	0.0327	ND	mg/Kg	404201	2194
Benzo[e]pyrene	SW6270C	3/7/11	03/08/11	1	0.004850	0.0327	ND	mg/Kg	404201	2194
2-Fluorodiphenyl (S)	SW6270C	3/7/11	03/08/11	1	25	91.6	70.7	%	404201	2194
p-Terphenyl-414 (S)	SW6270C	3/7/11	03/08/11	1	24.3	129	102	%	404201	2194

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	POL	Results	Unit	Lab Qualifier	Prep Batch
TPH est Diesel	SW6015B(M)	3/6/11	03/06/11	1	0.759	2.0	3.8	mg/Kg	404182	2177
TPH as Motor Oil	SW6015B(M)	3/6/11	03/06/11	1	1.85	4.0	69	mg/Kg	404182	2177
Pentacosane (S)	SW6015B(M)	3/6/11	03/06/11	1	56.7	129	79.5	mg/Kg	404182	2177

NOTE: x=Not typical of Diesel standard pattern (unknown discrete hydrocarbon peaks present).

Total Page Count: 41

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SAMPLE RESULTS

Report prepared for: Sharda Nakashima
EnviroServices & Training Center (ETC)

Date Received: 03/03/11
Data Reported: 03/10/11

Client Sample ID: 2048.DUS
Project Name/Location: 06-2048 Puente Piggery
Project Number: 1103019-005A
Sample Matrix: Soil
Date/Time Sampled: 03/01/11 / 10:35
Tag Number: 06-2048 Puente Piggery

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Arsenic	SW60108	3/7/11	03/08/11	1	0.0560	0.34	2.6		mg/Kg	404180	2183
Berium	SW60108	3/7/11	03/08/11	1	0.0220	1.0	270		mg/Kg	404180	2183
Cadmium	SW60108	3/7/11	03/08/11	1	0.0120	1.0	ND		mg/Kg	404180	2183
Chromium	SW60108	3/7/11	03/08/11	1	0.0120	1.0	62		mg/Kg	404180	2183
Lead	SW60108	3/7/11	03/08/11	1	0.0740	0.260	10		mg/Kg	404180	2183
Selenium	SW60108	3/7/11	03/08/11	1	0.0560	1.0	ND		mg/Kg	404180	2183
Silver	SW60108	3/7/11	03/08/11	1	0.0400	0.26	7.0		mg/Kg	404180	2183
Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	7471B	3/6/11	03/09/11	1	0.05	0.10	ND		mg/Kg	404179	2191
Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Aroclor1016	SW0082	3/6/11	03/07/11	1	0.0230	0.10	ND		mg/Kg	404181	2185
Aroclor1221	SW0082	3/6/11	03/07/11	1	0.0820	0.20	ND		mg/Kg	404181	2185
Aroclor1232	SW0082	3/6/11	03/07/11	1	0.0460	0.10	ND		mg/Kg	404181	2185
Aroclor1242	SW0082	3/6/11	03/07/11	1	0.0430	0.10	ND		mg/Kg	404181	2185
Aroclor1248	SW0082	3/6/11	03/07/11	1	0.0360	0.10	ND		mg/Kg	404181	2185
Aroclor1254	SW0082	3/6/11	03/07/11	1	0.0240	0.10	ND		mg/Kg	404181	2185
Aroclor1260	SW0082	3/6/11	03/07/11	1	0.0270	0.10	ND		mg/Kg	404181	2185
TCMX (S)	SW0082	3/6/11	03/07/11	1	50.4	136	115		%	404181	2185
DCBP (S)	SW0082	3/6/11	03/07/11	1	55.1	113	89.8		%	404181	2185



SAMPLE RESULTS

Report prepared for: Sharda Nakashima
EnviroServices & Training Center (ETC)

Date Received: 03/03/11
Data Reported: 03/10/11

Client Sample ID: 2048.DUS
Project Name/Location: 06-2048 Puente Piggery
Project Number: 1103019-005A
Sample Matrix: Soil
Date/Time Sampled: 03/01/11 / 10:35
Tag Number: 06-2048 Puente Piggery

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
The results shown below are reported using their MDL.											
Naphthalene	SW6270C	3/7/11	03/08/11	1	0.01544	0.0327	0.018	J	mg/Kg	404201	2184
2-Methylanthracene	SW6270C	3/7/11	03/08/11	1	0.01049	0.0327	0.022	J	mg/Kg	404201	2184
1-Methylanthracene	SW6270C	3/7/11	03/08/11	1	0.01049	0.0327	ND		mg/Kg	404201	2184
Acenaphthylene	SW6270C	3/7/11	03/08/11	1	0.009334	0.0327	ND		mg/Kg	404201	2184
Acenaphthene	SW6270C	3/7/11	03/08/11	1	0.01062	0.0327	ND		mg/Kg	404201	2184
Fluorene	SW6270C	3/7/11	03/08/11	1	0.001544	0.0327	ND		mg/Kg	404201	2184
Phenanthrene	SW6270C	3/7/11	03/08/11	1	0.01346	0.0327	ND		mg/Kg	404201	2184
Anthracene	SW6270C	3/7/11	03/08/11	1	0.01716	0.0327	ND		mg/Kg	404201	2184
Fluoranthene	SW6270C	3/7/11	03/08/11	1	0.01624	0.0327	ND		mg/Kg	404201	2184
Pyrene	SW6270C	3/7/11	03/08/11	1	0.01261	0.0327	0.021	J	mg/Kg	404201	2184
Benz[a]anthracene	SW6270C	3/7/11	03/08/11	1	0.01873	0.0327	ND		mg/Kg	404201	2184
Chrysene	SW6270C	3/7/11	03/08/11	1	0.01168	0.0657	0.021	J	mg/Kg	404201	2184
Benzofluoranthene	SW6270C	3/7/11	03/08/11	1	0.01340	0.0327	0.022	J	mg/Kg	404201	2184
Benzofluoranthene	SW6270C	3/7/11	03/08/11	1	0.00846	0.0327	ND		mg/Kg	404201	2184
Indeno[1,2,3-cd]pyrene	SW6270C	3/7/11	03/08/11	1	0.01485	0.0327	ND		mg/Kg	404201	2184
Dibenz[a,h]anthracene	SW6270C	3/7/11	03/08/11	1	0.00318	0.0327	ND		mg/Kg	404201	2184
Benz[ghi]perylene	SW6270C	3/7/11	03/08/11	1	0.004488	0.0327	ND		mg/Kg	404201	2184
2-Fluorophenyl (S)	SW6270C	3/7/11	03/08/11	1	0.004960	0.0327	ND		mg/Kg	404201	2184
p-Terphenyl-d14 (S)	SW6270C	3/7/11	03/08/11	1	25	91.6	71.9		%	404201	2184
Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW60158(A)	3/6/11	03/06/11	1	0.759	2.0	4.3	x	mg/Kg	404192	2177
TPH as Motor Oil	SW60158(A)	3/6/11	03/06/11	1	1.65	4.0	110		mg/Kg	404192	2177
Pentacosane (S)	SW60158(A)	3/6/11	03/06/11	1	59.7	129	85.6		mg/Kg	404192	2177
NOTE: x=Not typical of Diesel standard pattern (unknown discrete hydrocarbon peaks present).											



SAMPLE RESULTS

Report prepared for: Sharla Nakashima
EnviroServices & Training Center (ETC)

Date Received: 03/03/11
Date Reported: 03/10/11

Client Sample ID: 2048.DU6
Project Name/Location: 06-2048 Puentea Piggy
Sample Matrix: Soil
Lab Sample ID: 1103019-006A
Project Number: 0301/11 / 13-50
Date/Time Sampled: 03/01/11 / 13:50
Tag Number: 06-2048 Puentea Piggy

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Unit	Lab Qualifier	Prep Batch
Arsenic	SW6010B	3/7/11	03/08/11	1	0.0560	0.34	3.0	mg/kg		2193
Barium	SW6010B	3/7/11	03/08/11	1	0.0220	1.0	190	mg/kg		2193
Cadmium	SW6010B	3/7/11	03/08/11	1	0.0120	1.0	ND	mg/kg		2193
Chromium	SW6010B	3/7/11	03/08/11	1	0.0120	1.0	44	mg/kg		2193
Lead	SW6010B	3/7/11	03/08/11	1	0.0740	0.260	33	mg/kg		2193
Selenium	SW6010B	3/7/11	03/08/11	1	0.0560	1.0	1.9	mg/kg		2193
Silver	SW6010B	3/7/11	03/08/11	1	0.0400	0.26	6.3	mg/kg		2193
Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Unit	Lab Qualifier	Prep Batch
Mercury	7471B	3/6/11	03/09/11	1	0.05	0.10	ND	mg/kg		2191
Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Unit	Lab Qualifier	Prep Batch
Aroclor 1016	SW6002	3/6/11	03/07/11	1	0.0230	0.10	ND	mg/kg		2185
Aroclor 1221	SW6002	3/6/11	03/07/11	1	0.0820	0.20	ND	mg/kg		2185
Aroclor 1232	SW6002	3/6/11	03/07/11	1	0.0460	0.10	ND	mg/kg		2185
Aroclor 1242	SW6002	3/6/11	03/07/11	1	0.0430	0.10	ND	mg/kg		2185
Aroclor 1248	SW6002	3/6/11	03/07/11	1	0.0360	0.10	ND	mg/kg		2185
Aroclor 1254	SW6002	3/6/11	03/07/11	1	0.0240	0.10	ND	mg/kg		2185
Aroclor 1260	SW6002	3/6/11	03/07/11	1	0.0270	0.10	ND	mg/kg		2185
TCMX (S)	SW6002	3/6/11	03/07/11	1	50.4	136	97.6	%		2185
DCBP (S)	SW6002	3/6/11	03/07/11	1	55.1	113	71.0	%		2185

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Total Page Count: 41

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SAMPLE RESULTS

Report prepared for: Sharla Nakashima
EnviroServices & Training Center (ETC)

Date Received: 03/03/11
Date Reported: 03/10/11

Client Sample ID: 2048.DU6
Project Name/Location: 06-2048 Puentea Piggy
Sample Matrix: Soil
Lab Sample ID: 1103019-006A
Project Number: 0301/11 / 13-50
Date/Time Sampled: 03/01/11 / 13:50
Tag Number: 06-2048 Puentea Piggy

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Unit	Lab Qualifier	Prep Batch
The results shown below are reported using their MDL.										
Naphthalene	SW6270C	3/7/11	03/08/11	1	0.01544	0.0327	0.021	mg/kg	J	2194
2-Methylnaphthalene	SW6270C	3/7/11	03/08/11	1	0.01049	0.0327	ND	mg/kg	J	2194
1-Methylnaphthalene	SW6270C	3/7/11	03/08/11	1	0.01049	0.0327	ND	mg/kg		2194
Acenaphthylene	SW6270C	3/7/11	03/08/11	1	0.00934	0.0327	ND	mg/kg		2194
Acenaphthene	SW6270C	3/7/11	03/08/11	1	0.01082	0.0327	ND	mg/kg		2194
Fluorene	SW6270C	3/7/11	03/08/11	1	0.00544	0.0327	ND	mg/kg		2194
Phenanthrene	SW6270C	3/7/11	03/08/11	1	0.01348	0.0327	0.067	mg/kg		2194
Anthracene	SW6270C	3/7/11	03/08/11	1	0.01716	0.0327	ND	mg/kg		2194
Fluoranthene	SW6270C	3/7/11	03/08/11	1	0.01624	0.0327	ND	mg/kg		2194
Pyrene	SW6270C	3/7/11	03/08/11	1	0.01261	0.0327	ND	mg/kg		2194
Benzofluoranthene	SW6270C	3/7/11	03/08/11	1	0.01973	0.0327	0.058	mg/kg		2194
Chrysene	SW6270C	3/7/11	03/08/11	1	0.01168	0.0637	0.059	mg/kg	J	2194
Benzokjuaanthene	SW6270C	3/7/11	03/08/11	1	0.01340	0.0327	ND	mg/kg		2194
Benzofluoranthene	SW6270C	3/7/11	03/08/11	1	0.00848	0.0327	0.020	mg/kg	J	2194
Benzo(a)pyrene	SW6270C	3/7/11	03/08/11	1	0.01485	0.0327	0.015	mg/kg		2194
Indeno(1,2,3-cd)pyrene	SW6270C	3/7/11	03/08/11	1	0.008316	0.0327	ND	mg/kg		2194
Dibenz(a,h)anthracene	SW6270C	3/7/11	03/08/11	1	0.004488	0.0327	ND	mg/kg		2194
Benzog(a)pyrene	SW6270C	3/7/11	03/08/11	1	0.004860	0.0327	0.011	mg/kg	J	2194
2-Fluorobiphenyl (S)	SW6270C	3/7/11	03/08/11	1	25	81.6	73.6	%		2194
p-Terphenyl-d14 (S)	SW6270C	3/7/11	03/08/11	1	24.3	129	92.2	%		2194

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Unit	Lab Qualifier	Prep Batch
TPH as Diesel	SW8015B(M)	3/6/11	03/05/11	10	7.59	20	130	mg/kg	x	2177
TPH as Motor Oil	SW8015B(M)	3/6/11	03/05/11	10	16.5	40	730	mg/kg		2177
Pentacosane (S)	SW8015B(M)	3/6/11	03/05/11	10	58.7	129	131	mg/kg	S	2177

NOTE: Surrogate recoveries fall outside of the control limits due to matrix interference. x-Not typical of Diesel standard pattern. Diesel result is carry over from TPH as motor oil quantization range.

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SAMPLE RESULTS

Report prepared for: Sharfa Nakashima
EnviroServices & Training Center (ETC)

Date Received: 03/03/11
Date Reported: 03/10/11

Client Sample ID: 2048.DU7
Project Name/Location: 06-2048 Puenene Pigery
Sample Matrix: Soil
Tag Number: 03/01/11 11:35
Date/Time Sampled: 06-2048 Puenene Pigery

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Arsenic	SW6010B	3/7/11	03/08/11	1	0.0560	0.34	3.4		mg/Kg	404180	2193
Barium	SW6010B	3/7/11	03/08/11	1	0.0220	1.0	260		mg/Kg	404180	2193
Cadmium	SW6010B	3/7/11	03/08/11	1	0.0120	1.0	ND		mg/Kg	404180	2193
Chromium	SW6010B	3/7/11	03/08/11	1	0.0120	1.0	65		mg/Kg	404180	2193
Lead	SW6010B	3/7/11	03/08/11	1	0.0740	0.260	110		mg/Kg	404180	2193
Selenium	SW6010B	3/7/11	03/08/11	1	0.0580	1.0	1.4		mg/Kg	404180	2193
Silver	SW6010B	3/7/11	03/08/11	1	0.0400	0.26	6.0		mg/Kg	404180	2193
Mercury	7471B	3/8/11	03/08/11	1	0.05	0.10	ND		mg/Kg	404178	2191



SAMPLE RESULTS

Report prepared for: Sharfa Nakashima
EnviroServices & Training Center (ETC)

Date Received: 03/03/11
Date Reported: 03/10/11

Client Sample ID: 2048.DU8
Project Name/Location: 06-2048 Puenene Pigery
Sample Matrix: Soil
Tag Number: 03/01/11 12:15
Date/Time Sampled: 06-2048 Puenene Pigery

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Arsenic	SW6010B	3/7/11	03/08/11	1	0.0560	0.34	4.5		mg/Kg	404180	2193
Barium	SW6010B	3/7/11	03/08/11	1	0.0220	1.0	210		mg/Kg	404180	2193
Cadmium	SW6010B	3/7/11	03/08/11	1	0.0120	1.0	ND		mg/Kg	404180	2193
Chromium	SW6010B	3/7/11	03/08/11	1	0.0120	1.0	56		mg/Kg	404180	2193
Lead	SW6010B	3/7/11	03/08/11	1	0.0740	0.260	11		mg/Kg	404180	2193
Selenium	SW6010B	3/7/11	03/08/11	1	0.0580	1.0	2.8		mg/Kg	404180	2193
Silver	SW6010B	3/7/11	03/08/11	1	0.0400	0.26	6.9		mg/Kg	404180	2193
Mercury	7471B	3/8/11	03/08/11	1	0.05	0.10	ND		mg/Kg	404178	2191



SAMPLE RESULTS

Report prepared for: Sharla Nakashima
EnviroServices & Training Center (ETC)

Date Received: 03/03/11
Date Reported: 03/10/11

Client Sample ID: 2048.DU8
Project Name/Location: 06-2048 Puente Piggery
Project Number: 1103019-009A
Sample Matrix: Soil
Date/Time Sampled: 03/01/11 / 12:35
Tag Number: 06-2048 Puente Piggery

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Unit	Lab Qualifier	Analytical Batch	Prep Batch
Arsenic	SW6010B	3/7/11	03/08/11	1	0.0560	0.34	3.0	mg/Kg	404180	2193	
Barium	SW6010B	3/7/11	03/08/11	1	0.0220	1.0	220	mg/Kg	404180	2193	
Cadmium	SW6010B	3/7/11	03/08/11	1	0.0120	1.0	ND	mg/Kg	404180	2193	
Chromium	SW6010B	3/7/11	03/08/11	1	0.0120	1.0	43	mg/Kg	404180	2193	
Lead	SW6010B	3/7/11	03/08/11	1	0.0740	0.260	24	mg/Kg	404180	2193	
Selenium	SW6010B	3/7/11	03/08/11	1	0.0560	1.0	2.3	mg/Kg	404180	2193	
Silver	SW6010B	3/7/11	03/08/11	1	0.0400	0.26	7.7	mg/Kg	404180	2193	
Mercury	7471B	3/8/11	03/09/11	1	0.05	0.10	ND	mg/Kg	404179	2191	



SAMPLE RESULTS

Report prepared for: Sharla Nakashima
EnviroServices & Training Center (ETC)

Date Received: 03/03/11
Date Reported: 03/10/11

Client Sample ID: 2048.DU10
Project Name/Location: 06-2048 Puente Piggery
Project Number: 1103019-010A
Sample Matrix: Soil
Date/Time Sampled: 03/01/11 / 15:00
Tag Number: 06-2048 Puente Piggery

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Unit	Lab Qualifier	Analytical Batch	Prep Batch
Arsenic	SW6010B	3/7/11	03/08/11	1	0.0560	0.34	3.8	mg/Kg	404180	2193	
Barium	SW6010B	3/7/11	03/08/11	1	0.0220	1.0	210	mg/Kg	404180	2193	
Cadmium	SW6010B	3/7/11	03/08/11	1	0.0120	1.0	ND	mg/Kg	404180	2193	
Chromium	SW6010B	3/7/11	03/08/11	1	0.0120	1.0	49	mg/Kg	404180	2193	
Lead	SW6010B	3/7/11	03/08/11	1	0.0740	0.260	18	mg/Kg	404180	2193	
Selenium	SW6010B	3/7/11	03/08/11	1	0.0560	1.0	3.1	mg/Kg	404180	2193	
Silver	SW6010B	3/7/11	03/08/11	1	0.0400	0.26	10	mg/Kg	404180	2193	
Mercury	7471B	3/8/11	03/09/11	1	0.05	0.10	ND	mg/Kg	404179	2191	



SAMPLE RESULTS

Report prepared for: Sharda Nakashima
EnviroServices & Training Center (ETC)

Date Received: 03/03/11
Data Reported: 03/10/11

Client Sample ID: 2048.DU11
Project Name/Location: 06-2048 Puente Piggery
Sample Matrix: Soil
Project Number: 1103019-011A
Date/Time Sampled: 03/01/11 / 14:20
Tag Number: 06-2048 Puente Piggery

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Unit	Lab Qualifier	Analytical Batch	Prep Batch
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Arsenic	SW60108	3/7/11	03/08/11	1	0.0560	0.34	4.0	mg/Kg	404180	2193
Barium	SW60108	3/7/11	03/08/11	1	0.0220	1.0	230	mg/Kg	404180	2193
Cadmium	SW60108	3/7/11	03/08/11	1	0.0120	1.0	ND	mg/Kg	404180	2193
Chromium	SW60108	3/7/11	03/08/11	1	0.0120	1.0	47	mg/Kg	404180	2193
Lead	SW60108	3/7/11	03/08/11	1	0.0740	0.260	830	mg/Kg	404180	2193
Selenium	SW60108	3/7/11	03/08/11	1	0.0560	1.0	ND	mg/Kg	404180	2193
Silver	SW60108	3/7/11	03/08/11	1	0.0400	0.26	7.5	mg/Kg	404180	2193

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Unit	Lab Qualifier	Analytical Batch	Prep Batch
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Mercury	74718	3/8/11	03/08/11	1	0.05	0.10	ND	mg/Kg	404179	2191
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SAMPLE RESULTS

Report prepared for: Sharda Nakashima
EnviroServices & Training Center (ETC)

Date Received: 03/03/11
Data Reported: 03/10/11

Client Sample ID: 2048.DU12
Project Name/Location: 06-2048 Puente Piggery
Sample Matrix: Soil
Project Number: 1103019-012A
Date/Time Sampled: 03/01/11 / 7:40
Tag Number: 06-2048 Puente Piggery

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Unit	Lab Qualifier	Analytical Batch	Prep Batch
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Arsenic	SW60108	3/7/11	03/08/11	1	0.0560	0.34	4.5	mg/Kg	404180	2193
Barium	SW60108	3/7/11	03/08/11	1	0.0220	1.0	330	mg/Kg	404180	2193
Cadmium	SW60108	3/7/11	03/08/11	1	0.0120	1.0	ND	mg/Kg	404180	2193
Chromium	SW60108	3/7/11	03/08/11	1	0.0120	1.0	74	mg/Kg	404180	2193
Lead	SW60108	3/7/11	03/08/11	1	0.0740	0.260	29	mg/Kg	404180	2193
Selenium	SW60108	3/7/11	03/08/11	1	0.0560	1.0	1.6	mg/Kg	404180	2193
Silver	SW60108	3/7/11	03/08/11	1	0.0400	0.26	6.3	mg/Kg	404180	2193

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Unit	Lab Qualifier	Analytical Batch	Prep Batch
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Mercury	74718	3/8/11	03/08/11	1	0.05	0.10	ND	mg/Kg	404179	2191
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Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Unit	Lab Qualifier	Analytical Batch	Prep Batch
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Aroclor 1016	SW6082	3/6/11	03/07/11	1	0.0230	0.10	ND	mg/Kg	404181	2185
Aroclor 1221	SW6082	3/6/11	03/07/11	1	0.0920	0.20	ND	mg/Kg	404181	2185
Aroclor 1232	SW6082	3/6/11	03/07/11	1	0.0460	0.10	ND	mg/Kg	404181	2185
Aroclor 1242	SW6082	3/6/11	03/07/11	1	0.0430	0.10	ND	mg/Kg	404181	2185
Aroclor 1248	SW6082	3/6/11	03/07/11	1	0.0360	0.10	ND	mg/Kg	404181	2185
Aroclor 1254	SW6082	3/6/11	03/07/11	1	0.0240	0.10	ND	mg/Kg	404181	2185
Aroclor 1260	SW6082	3/6/11	03/07/11	1	0.0270	0.10	ND	mg/Kg	404181	2185
TCMX (S)	SW6082	3/6/11	03/07/11	1	50.4	136	97.3	%	404181	2185
DCBP (S)	SW6082	3/6/11	03/07/11	1	55.1	113	76.0	%	404181	2185



SAMPLE RESULTS

Report prepared for: Sharda Nakasthma
EnviroServices & Training Center (ETC)

Date Received: 03/03/11
Date Reported: 03/10/11

Client Sample ID: 2048 DU12
Project Name/Location: 06-2048 Puente Piggery
Sample Matrix: Soil
Project Number: 1103019-012A
Date/Time Sampled: 03/01/11 / 7:40
Tag Number: 06-2048 Puente Piggery

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
The results shown below are reported using their MDL.											
Naphthalene	SW6270C	3/7/11	03/08/11	1	0.01544	0.0327	0.033		mg/Kg	404201	2194
2-Methylnaphthalene	SW6270C	3/7/11	03/08/11	1	0.01049	0.0327	0.032	J	mg/Kg	404201	2194
1-Methylnaphthalene	SW6270C	3/7/11	03/08/11	1	0.01049	0.0327	0.014	J	mg/Kg	404201	2194
Acenaphthylene	SW6270C	3/7/11	03/08/11	1	0.009334	0.0327	ND		mg/Kg	404201	2194
Acenaphthene	SW6270C	3/7/11	03/08/11	1	0.01062	0.0327	ND		mg/Kg	404201	2194
Fluorene	SW6270C	3/7/11	03/08/11	1	0.005544	0.0327	0.0064	J	mg/Kg	404201	2194
Phenanthrene	SW6270C	3/7/11	03/08/11	1	0.01346	0.0327	0.080		mg/Kg	404201	2194
Anthracene	SW6270C	3/7/11	03/08/11	1	0.01716	0.0327	ND		mg/Kg	404201	2194
Fluoranthene	SW6270C	3/7/11	03/08/11	1	0.01624	0.0327	0.14		mg/Kg	404201	2194
Pyrene	SW6270C	3/7/11	03/08/11	1	0.01261	0.0327	0.086		mg/Kg	404201	2194
Benz[a]benzofuran	SW6270C	3/7/11	03/08/11	1	0.01973	0.0327	0.045		mg/Kg	404201	2194
Chrysene	SW6270C	3/7/11	03/08/11	1	0.01168	0.0327	0.084	J	mg/Kg	404201	2194
Benzofluoranthene	SW6270C	3/7/11	03/08/11	1	0.01340	0.0327	0.089		mg/Kg	404201	2194
Benz[a]anthracene	SW6270C	3/7/11	03/08/11	1	0.008546	0.0327	0.083		mg/Kg	404201	2194
Indeno[1,2,3-cd]pyrene	SW6270C	3/7/11	03/08/11	1	0.01485	0.0327	0.032	J	mg/Kg	404201	2194
Dibenz[a,h]anthracene	SW6270C	3/7/11	03/08/11	1	0.008316	0.0327	ND		mg/Kg	404201	2194
Benz[ghi]perylene	SW6270C	3/7/11	03/08/11	1	0.004488	0.0327	0.017	J	mg/Kg	404201	2194
2-Fluorobiphenyl (S)	SW6270C	3/7/11	03/08/11	1	0.004950	0.0327	0.035		mg/Kg	404201	2194
p-Terphenyl-414 (S)	SW6270C	3/7/11	03/08/11	1	25	81.5	84.9		%	404201	2194
					24.3	129	90.9		%	404201	2194

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW60158(M)	3/6/11	03/08/11	5	3.80	9.9	11		mg/Kg	404191	2177
TPH as Motor Oil	SW60158(M)	3/6/11	03/08/11	5	8.25	20	350	X	mg/Kg	404191	2177
Pentacosane (S)	SW60158(M)	3/6/11	03/08/11	5	59.7	129	83.0		mg/Kg	404191	2177

NOTE: x-Net typical of Diesel standard pattern (unknown discrete hydrocarbon peaks present).



SAMPLE RESULTS

Report prepared for: Sharda Nakasthma
EnviroServices & Training Center (ETC)

Date Received: 03/03/11
Date Reported: 03/10/11

Client Sample ID: 2048 DU13
Project Name/Location: 06-2048 Puente Piggery
Sample Matrix: Soil
Project Number: 1103019-012A
Date/Time Sampled: 03/01/11 / 8:45
Tag Number: 06-2048 Puente Piggery

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Arsenic	SW60108	3/7/11	03/08/11	1	0.0560	0.34	2.4		mg/Kg	404180	2193
Barium	SW60108	3/7/11	03/08/11	1	0.0220	1.0	310		mg/Kg	404180	2193
Cadmium	SW60108	3/7/11	03/08/11	1	0.0120	1.0	ND		mg/Kg	404180	2193
Chromium	SW60108	3/7/11	03/08/11	1	0.0120	1.0	78		mg/Kg	404180	2193
Lead	SW60108	3/7/11	03/08/11	1	0.0740	0.260	9.1		mg/Kg	404180	2193
Selenium	SW60108	3/7/11	03/08/11	1	0.0500	1.0	3.0		mg/Kg	404180	2193
Silver	SW60108	3/7/11	03/08/11	1	0.0400	0.26	7.7		mg/Kg	404180	2193
Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	7471B	3/6/11	03/08/11	1	0.05	0.10	ND		mg/Kg	404178	2191
Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Aroclor 1016	SW6082	3/6/11	03/07/11	1	0.0230	0.10	ND		mg/Kg	404181	2185
Aroclor 1221	SW6082	3/6/11	03/07/11	1	0.0620	0.20	ND		mg/Kg	404181	2185
Aroclor 1232	SW6082	3/6/11	03/07/11	1	0.0460	0.10	ND		mg/Kg	404181	2185
Aroclor 1242	SW6082	3/6/11	03/07/11	1	0.0430	0.10	ND		mg/Kg	404181	2185
Aroclor 1248	SW6082	3/6/11	03/07/11	1	0.0360	0.10	ND		mg/Kg	404181	2185
Aroclor 1254	SW6082	3/6/11	03/07/11	1	0.0240	0.10	ND		mg/Kg	404181	2185
Aroclor 1260	SW6082	3/6/11	03/07/11	1	0.0270	0.10	ND		mg/Kg	404181	2185
TCMX (S)	SW6082	3/6/11	03/07/11	1	50.4	136	106		%	404181	2185
DCBP (S)	SW6082	3/6/11	03/07/11	1	55.1	113	88.3		%	404181	2185



SAMPLE RESULTS

Report prepared for: Shadia Nakashima		Data Received: 03/03/11								
EnviroServices & Training Center (ETC)		Data Reported: 03/10/11								
Client Sample ID: 2048-DU13	Lab Sample ID: 1103018-013A	Sample Matrix: Soil								
Project Name/Location: 06-2048 Puente Piggery										
Date/Time Sampled: 03/01/11 7:45										
Tag Number: 06-2048 Puente Piggery										
Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
The results shown below are reported using their MDL.										
Naphthalene	SW6270C	3/7/11	03/08/11	1	0.01544	0.0327	ND	mg/kg	404201	2184
1-Methylanthracene	SW6270C	3/7/11	03/08/11	1	0.01049	0.0327	0.016	mg/kg	404201	2184
2-Methylanthracene	SW6270C	3/7/11	03/08/11	1	0.01049	0.0327	ND	mg/kg	404201	2184
Acenaphthylene	SW6270C	3/7/11	03/08/11	1	0.00934	0.0327	ND	mg/kg	404201	2184
Acenaphthene	SW6270C	3/7/11	03/08/11	1	0.01082	0.0327	ND	mg/kg	404201	2184
Fluorene	SW6270C	3/7/11	03/08/11	1	0.005544	0.0327	ND	mg/kg	404201	2184
Phenanthrene	SW6270C	3/7/11	03/08/11	1	0.01346	0.0327	0.041	mg/kg	404201	2184
Anthracene	SW6270C	3/7/11	03/08/11	1	0.01716	0.0327	ND	mg/kg	404201	2184
Fluoranthene	SW6270C	3/7/11	03/08/11	1	0.01624	0.0327	0.28	mg/kg	404201	2184
Pyrene	SW6270C	3/7/11	03/08/11	1	0.01261	0.0327	0.20	mg/kg	404201	2184
Benz[a]anthracene	SW6270C	3/7/11	03/08/11	1	0.01973	0.0327	0.10	mg/kg	404201	2184
Chrysene	SW6270C	3/7/11	03/08/11	1	0.01168	0.0637	0.12	mg/kg	404201	2184
Benz[b]fluoranthene	SW6270C	3/7/11	03/08/11	1	0.01340	0.0327	0.11	mg/kg	404201	2184
Benz[k]fluoranthene	SW6270C	3/7/11	03/08/11	1	0.008649	0.0327	0.037	mg/kg	404201	2184
Benz[a]pyrene	SW6270C	3/7/11	03/08/11	1	0.01485	0.0327	0.054	mg/kg	404201	2184
Indeno[1,2,3-cd]pyrene	SW6270C	3/7/11	03/08/11	1	0.003316	0.0327	0.030	mg/kg	404201	2184
Dibenz[a,h]anthracene	SW6270C	3/7/11	03/08/11	1	0.004485	0.0327	0.015	mg/kg	404201	2184
Benz[ghi]perylene	SW6270C	3/7/11	03/08/11	1	0.004950	0.0327	ND	mg/kg	404201	2184
2-Fluorobiphenyl (S)	SW6270C	3/7/11	03/08/11	1	25	91.5	64.7	%	404201	2184
p-Terphenyl-d14 (S)	SW6270C	3/7/11	03/08/11	1	24.3	129	93.7	%	404201	2184
Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW6015B(M)	3/6/11	03/08/11	2	1.52	4.0	7.6	mg/kg	404191	2177
TPH as Motor Oil	SW6015B(M)	3/6/11	03/08/11	2	3.30	7.9	140	mg/kg	404191	2177
Pentacosane (S)	SW6015B(M)	3/6/11	03/08/11	2	59.7	129	96.0	mg/kg	404191	2177
NOTE: ± Not typical of Diesel standard pattern (unknown discrete hydrocarbon peaks present).										



MB Summary Report

Work Order: 1103019	Prep Method: 3545_TPH	Prep Date: 03/06/11	Prep Batch: 2177	
Matrix: Soil	Analytical Method: SW6015B(M)	Analyzed Date: 03/06/11	Analytical Batch: 404182	
Units: mg/Kg				
Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH as Diesel	0.758	2.0	ND	
TPH as Motor Oil	1.78	4.0	3.4	
Pentacosane (S)			107	
Work Order: 1103019	Prep Method: 3545_PCB	Prep Date: 03/06/11	Prep Batch: 2185	
Matrix: Soil	Analytical Method: SW6062	Analyzed Date: 03/07/11	Analytical Batch: 404181	
Units: mg/Kg				
Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Aroclor1016	0.0230	0.10	ND	
Aroclor1221	0.0920	0.20	ND	
Aroclor1232	0.0480	0.10	ND	
Aroclor1242	0.0430	0.10	ND	
Aroclor1248	0.0360	0.10	ND	
Aroclor1254	0.0240	0.10	ND	
Aroclor1260	0.0270	0.10	ND	
TCMX (S)			121	
DCBP (S)			89.3	
Work Order: 1103019	Prep Method: 7471_Mt	Prep Date: 03/06/11	Prep Batch: 2191	
Matrix: Soil	Analytical Method: 7471B	Analyzed Date: 03/06/11	Analytical Batch: 404179	
Units: mg/Kg				
Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Mercury	0.005	0.10	ND	



MB Summary Report

Work Order:	1103019	Prep Method:	3545_MJ	Prep Date:	03/07/11	Prep Batch:	2183
Matrix:	Soil	Analytical Method:	SW6108	Analyzed Date:	03/09/11	Analytical Batch:	404180
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Arsenic	0.0560	0.34	0.063	
Ba 233.527 R	0.0220	1.0	0.50	
Cadmium	0.0120	1.0	0.013	
Chromium	0.0120	1.0	0.091	
Lead	0.0740	0.250	0.21	
Selenium	0.0560	1.0	ND	
Silver	0.0400	1.0	ND	

Work Order:	1103019	Prep Method:	3545_PAHSIM	Prep Date:	03/07/11	Prep Batch:	2184
Matrix:	Soil	Analytical Method:	SW6270C	Analyzed Date:	03/09/11	Analytical Batch:	404201
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Naphthalene	0.01568	0.0332	ND	
2-Methylnaphthalene	0.01065	0.0332	ND	
1-Methylnaphthalene	0.01065	0.0332	ND	
Acenaphthylene	0.009683	0.0332	ND	
Acenaphthene	0.01099	0.0332	ND	
Fluorene	0.009626	0.0332	ND	
Phenanthrene	0.01367	0.0332	ND	
Anthracene	0.01742	0.0332	ND	
Fluoranthene	0.01848	0.0332	ND	
Pyrene	0.02003	0.0332	ND	
Benz[a]fluoranthene	0.01186	0.0687	ND	
Chrysene	0.01360	0.0332	ND	
Benz[b]fluoranthene	0.008777	0.0332	ND	
Benz[a]pyrene	0.01508	0.0332	ND	
Indeno[1,2,3-cd]pyrene	0.008442	0.0332	ND	
Dibenz[a,h]anthracene	0.004556	0.0332	ND	
Benz[g,h,i]perylene	0.005025	0.0332	ND	
2-Fluorobiphenyl (S)			79.3	
p-Terphenyl-d14 (S)			98.8	



LCS/LCSD Summary Report

Raw values are used in quality control assessment!

Work Order:	1103019	Prep Method:	3545_TPH	Prep Date:	03/08/11	Prep Batch:	2177
Matrix:	Soil	Analytical Method:	SW6015B(M)	Analyzed Date:	03/08/11	Analytical Batch:	404182
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Diesel	0.758	2	ND	33.33	95.3	95.9	0.638	52.6 - 115	30	
Pentacene (S)			3.4	100	106	106		58.7 - 129		

Work Order:	1103019	Prep Method:	3545_PCB	Prep Date:	03/08/11	Prep Batch:	2185
Matrix:	Soil	Analytical Method:	SW6032	Analyzed Date:	03/07/11	Analytical Batch:	404181
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Aroclor 1016	0.0230	0.10	ND	1	117	123	4.59	55.6 - 135	30	
Aroclor 1260	0.0270	0.10	ND	0.5	118	124	5.06	65.6 - 132	30	
TCUX (S)			ND	0.25	92.9	101		68.9 - 123		
DCBP (S)			ND	0.250	114	125		69.5 - 119		S

Work Order:	1103019	Prep Method:	7471_MJ	Prep Date:	03/09/11	Prep Batch:	2191
Matrix:	Soil	Analytical Method:	7471B	Analyzed Date:	03/09/11	Analytical Batch:	404179
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Mercury	0.05	0.10	ND	0.3	98.9	101	0.532	80.3 - 133	30	



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1103019	Prep Method:	3505B_ML	Prep Date:	03/07/11	Prep Batch:	2193	
Matrix:	Soil	Analytical Method:	SW60108	Analyzed Date:	03/08/11	Analytical Batch:	404180	
Units:	mg/Kg							
Parameters	MDL	PQL	Method Blank Conc.	LCS % Recovery	LCS/LCSD Recovery % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Arsenic	0.056	0.34	0.063	98.87	101	2.2	75 - 125	30
Ba 233.527 R	0.022	1	0.50	102.7	113	9.0	75 - 125	30
Cadmium	0.012	1	0.013	97.02	106	8.8	75 - 125	30
Chromium	0.012	1	0.091	103	113	9.3	75 - 125	30
Lead	0.074	0.26	0.21	106.9	109	1.9	75 - 125	30
Selenium	0.058	1	ND	94.85	97.4	2.6	75 - 125	30
Silver	0.04	0.26	ND	100.1	108	7.3	75 - 125	30
Work Order:	1103019	Prep Method:	3545_PAUSIM	Prep Date:	03/07/11	Prep Batch:	2194	
Matrix:	Soil	Analytical Method:	SW6270C	Analyzed Date:	03/08/11	Analytical Batch:	404201	
Units:	mg/Kg							

Parameters	MDL	PQL	Method Blank Conc.	LCS % Recovery	LCS/LCSD Recovery % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Acenaphthene	0.01082	0.0327	ND	62.0	68.5	17.9	11.9 - 106	30
Pyrene	0.01281	0.0327	ND	103	100	2.86	18.9 - 136	30
2-Fluorobiphenyl (S)			ND	88.9	68.4		25 - 91.6	
p-Terphenyl-414 (S)			ND	97.8	93.1		24.3 - 129	



MS/MSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1103019	Prep Method:	3545_PCB	Prep Date:	03/08/11	Prep Batch:	2185
Matrix:	Soil	Analytical Method:	SW6082	Analyzed Date:	03/07/11	Analytical Batch:	404181
Spiked Sample:	1103019-002A						
Units:	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Aroclor1016	0.0230	0.10	0.00926	1	82.2	88.9	7.67	55.6 - 135	30	
Aroclor1260	0.0270	0.10	0.00154	0.25	78.2	85.4	1.4	68.6 - 132	30	
TCMX (S)					80.8	87.7		59.4 - 136		
DCBP (S)				0.250	80.9	97.7		55.1 - 113		

Work Order:	1103019	Prep Method:	3545_TPH	Prep Date:	03/08/11	Prep Batch:	2177
Matrix:	Soil	Analytical Method:	SW6015B(M)	Analyzed Date:	03/08/11	Analytical Batch:	404192
Spiked Sample:	1103019-002A						
Units:	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Diesel	0.76	2.0	119.7218	33.33	72.0	77.0	5.83	58.3 - 125	30	
Pentacene (S)				100	93.1	100		57.9 - 125		

Work Order:	1103019	Prep Method:	3545_PAUSIM	Prep Date:	03/07/11	Prep Batch:	2194
Matrix:	Soil	Analytical Method:	SW6270C	Analyzed Date:	03/08/11	Analytical Batch:	404201
Spiked Sample:	1103019-002A						
Units:	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Acenaphthene	0.01082	0.0327	0.0283	0.1667	67.6	74.2	9.15	11.9 - 106	30	
Pyrene	0.01281	0.0327	0	0.1667	99.4	106	6.83	18.9 - 136	30	
2-Fluorobiphenyl (S)				5	72.9	82.4		25 - 91.6		
p-Terphenyl-414 (S)				5	94.3	101		24.3 - 129		



Laboratory Qualifiers and Definitions

DEFINITIONS:

Accuracy/Recovery (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.
Blank (Method/Preparation Blank) - JAR/298. An analyte-free matrix in which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.
Duplicate - A field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)
Laboratory Control Sample (LCS and LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
Matrix - the component or substrate that contains the analyte of interest (e.g., groundwater, sediment, soil, waste water, etc)
Matrix Spike (MMSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
Practical Quantitation Limit (PQL) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
Precision (MRPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
Surrogate (S) or (Burr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis
Tentatively Identified Compound (TIC) - A compound not contained within the analytical calibration standards but present in the GC/MS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.
Units: the unit of measure used to express the reported result - mg/L, and mg/Kg (equivalent to ppm - parts per million in liquid and solid), ug/L, and ug/Kg (equivalent to ppb - parts per billion in liquid and solid), ug/m ³ , mg/m ³ , ppb, and ppmv (all units of measure for reporting concentrations in air), % (equivalent to 10000 ppm or 1,000,000 ppb), ug/Mg (concentration found on the surface of a single wipe usually taken over a 100cm ² surface)

LABORATORY QUALIFIERS:

B - Indicates when the analyte is found in the associated method or preparation blank
D - Surrogate is not recoverable due to the necessary dilution of the sample
E - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated
H - Indicates that the recommended holding time for the analyte or compound has been exceeded
J - Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather than the quantitative
NA - Not Analyzed
N/A - Not Applicable
NR - Not recoverable
R - The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts
S - Spike recovery is outside of established method and/or laboratory control limits Further explanation of the use of this qualifier should be included within a case narrative
X - Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.



Sample Receipt Checklist

Client Name: **EnviroServices & Training Center (ETC)** Date and Time Received: **3/2/2011 12:20**
Project Name: **08-2048 Paving/Paving** Received By: **NG**
Work Order No.: **1103019** Physically Logged By: **NG**
Checklist Completed By: **NG**
Carrier Name: **EadEx**

Chain of Custody (COC) Information

Chain of custody present? **Yes**
Chain of custody signed when relinquished and received? **Yes**
Chain of custody agrees with sample labels? **Yes**
Custody seals intact on sample bottles? **Not Present**
Sample Receipt Information
Custody seals intact on shipping container/cooler? **Not Present**
Shipping Container/Cooler in Good Condition? **Yes**
Samples in proper container/bottle? **Yes**
Samples containers intact? **Yes**
Sufficient sample volume for indicated test? **Yes**

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? **Yes**
Container/Temp Blank temperature in compliance? **Yes** Temperature: **4** °C
Water-VOA vials have zero headspace? **No VOA vials submitted**
Water-pH acceptable upon receipt?

pH Checked by:
pH Adjusted by:



Login Summary Report

Client ID: TL5417 EnviroServices & Training Center (ETC) QC Level:
Project Name: 06-2048 Puuene Pigpery TAT Requested: 5+ day:0
Project #: Date Received: 3/3/2011
Report Due Date: 3/10/2011 Time Received: 12:20
Comments: 5 Day TAT!! (plus 1 day drying) - Results due to client no later than Friday, 3/11/11. 13 soils rec'd at 3°C. All samples require Hawaii DOH MI Subsampling! Report client specific PAH compound list! Report to Sharla (sharla@golobtc.com).
Work Order #: 1103019

WO Sample ID	Client Sample ID	Collection Date/Time	Matrix	Scheduled Disposal	Sample On Hold	Test On Hold	Requested Tests	Subbed
1103019-001A	2048.DU1	03/01/11 9:15	Soil	08/30/11			S_60108MI S_7471HGMI S_8270PAHSIM S_8082PCB S_TPHDO	
Sample Note: All samples need to be air dried (minimum 24hr), sieved and subsampled per MI Sampling SOP. 10 gm MI digestion for metals, 30 gm MI extraction for all SVOCs! See client specific PAH compound list!								
1103019-002A	2048.DU2	03/01/11 9:45	Soil	08/30/11			S_60108MI S_8082PCB S_7471HGMI S_8270PAHSIM S_TPHDO	
1103019-003A	2048.DU3	03/01/11 7:05	Soil	08/30/11			S_60108MI S_8082PCB S_7471HGMI S_8270PAHSIM S_TPHDO	
1103019-004A	2048.DU4	03/01/11 10:30	Soil	08/30/11			S_60108MI S_8082PCB S_7471HGMI S_8270PAHSIM S_TPHDO	
1103019-005A	2048.DU5	03/01/11 10:35	Soil	08/30/11			S_60108MI S_8082PCB S_7471HGMI S_8270PAHSIM S_TPHDO	
1103019-006A	2048.DU6	03/01/11 13:50	Soil	08/30/11			S_60108MI S_8082PCB S_7471HGMI S_8270PAHSIM S_TPHDO	



Login Summary Report

Client ID: TL5417 EnviroServices & Training Center (ETC) QC Level:
Project Name: 06-2048 Puuene Pigpery TAT Requested: 5+ day:0
Project #: Date Received: 3/3/2011
Report Due Date: 3/10/2011 Time Received: 12:20
Comments: 5 Day TAT!! (plus 1 day drying) - Results due to client no later than Friday, 3/11/11. 13 soils rec'd at 3°C. All samples require Hawaii DOH MI Subsampling! Report client specific PAH compound list! Report to Sharla (sharla@golobtc.com).
Work Order #: 1103019

WO Sample ID	Client Sample ID	Collection Date/Time	Matrix	Scheduled Disposal	Sample On Hold	Test On Hold	Requested Tests	Subbed
1103019-007A	2048.DU7	03/01/11 11:35	Soil	08/30/11			S_8270PAHSIM S_7471HGMI	
1103019-008A	2048.DU8	03/01/11 12:15	Soil	08/30/11			S_60108MI S_7471HGMI	
1103019-009A	2048.DU9	03/01/11 12:35	Soil	08/30/11			S_60108MI S_7471HGMI	
1103019-010A	2048.DU10	03/01/11 15:00	Soil	08/30/11			S_60108MI S_7471HGMI	
1103019-011A	2048.DU11	03/01/11 14:00	Soil	08/30/11			S_60108MI S_7471HGMI	
1103019-012A	2048.DU12	03/01/11 7:40	Soil	08/30/11			S_60108MI S_7471HGMI S_8270PAHSIM S_8082PCB S_TPHDO	
1103019-013A	2048.DU13	03/01/11 8:45	Soil	08/30/11			S_60108MI S_8270PAHSIM S_TPHDO S_8082PCB S_7471HGMI	



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FAX: 408.263.5293
www.torrentlab.com

CHAIN OF CUSTODY

LABORATORY USE ONLY

1103 019

Company Name: Earth Services & Training Center, LLC Location of Sampling: 48-2408 Prunella Piggy
Address: 585 Ward Avenue, Suite 202 Purpose:
City: Fresno State: Fresno Zip Code: 96714
Telephone: 508-437-7222 FAX: 508-437-4455
REPORT TO: Shirley Nakashima ANALYST: S. Nakashima/R. Lum P.O. #: EMAIL: shirley@earthsc.com

TEST/ANALYSIS TIME: REPORT FORMAT:
☐ 10 min Day ☐ 15 min Day ☐ 30 min Day ☐ 1 hr Day ☐ 2 hr Day ☐ 4 hr Day ☐ 8 hr Day ☐ 16 hr Day ☐ 24 hr Day
☐ 10 min Night ☐ 15 min Night ☐ 30 min Night ☐ 1 hr Night ☐ 2 hr Night ☐ 4 hr Night ☐ 8 hr Night ☐ 16 hr Night ☐ 24 hr Night
☐ 10 min Day ☐ 15 min Day ☐ 30 min Day ☐ 1 hr Day ☐ 2 hr Day ☐ 4 hr Day ☐ 8 hr Day ☐ 16 hr Day ☐ 24 hr Day
☐ 10 min Night ☐ 15 min Night ☐ 30 min Night ☐ 1 hr Night ☐ 2 hr Night ☐ 4 hr Night ☐ 8 hr Night ☐ 16 hr Night ☐ 24 hr Night

LAB ID	CLIENT'S SAMPLE ID	DATE/TIME SAMPLED	MATRIX	CONC	TYPE	FAH-SIM (8270C)	TPH-D (8015M)	TPH-Q (8015M)	PCBs (8082)	NIT Subsampling	ANALYSIS REQUESTED	REMARKS
001A	244LDU11	3-11/1100	Soil	1	PL Bag	✓	✓	✓	✓	✓	✓	
002A	244LDU12	3-11/1100	Soil	1	PL Bag	✓	✓	✓	✓	✓	✓	
003A	244LDU13	3-11/1100	Soil	1	PL Bag	✓	✓	✓	✓	✓	✓	
004A	244LDU14	3-11/1100	Soil	1	PL Bag	✓	✓	✓	✓	✓	✓	
005A	244LDU15	3-11/1100	Soil	1	PL Bag	✓	✓	✓	✓	✓	✓	
006A	244LDU16	3-11/1100	Soil	1	PL Bag	✓	✓	✓	✓	✓	✓	
007A	244LDU17	3-11/1100	Soil	1	PL Bag	✓	✓	✓	✓	✓	✓	
008A	244LDU18	3-11/1100	Soil	1	PL Bag	✓	✓	✓	✓	✓	✓	
009A	244LDU19	3-11/1100	Soil	1	PL Bag	✓	✓	✓	✓	✓	✓	
010A	244LDU19	3-11/1100	Soil	1	PL Bag	✓	✓	✓	✓	✓	✓	

DATE: 3-11-11 TIME: 12:23 PM DATE: 3-11-11 TIME: 12:23 PM
LABORATORY: Earth Services & Training Center, LLC ANALYST: S. Nakashima/R. Lum
CLIENT: Earth Services & Training Center, LLC PROJECT: 48-2408 Prunella Piggy
NOTE: Samples are discarded by the laboratory 30 days from date of sample unless other arrangements are made.
Log in by: 3-3-11 Date: 3-3-11 Time: 12:23 PM
3. FedEx 3-3-11 12:23 PM 11:23 AM 3-3-11 12:23 PM



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Madera, CA 95005
Phone: 408.263.5293
FAX: 408.263.5293
www.torrentlab.com

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LABORATORY USE ONLY

1103 019

Company Name: Earth Services & Training Center, LLC Location of Sampling: 48-2408 Prunella Piggy
Address: 585 Ward Avenue, Suite 202 Purpose:
City: Fresno State: Fresno Zip Code: 96714
Telephone: 508-437-7222 FAX: 508-437-4455
REPORT TO: Shirley Nakashima ANALYST: S. Nakashima/R. Lum P.O. #: EMAIL: shirley@earthsc.com

TEST/ANALYSIS TIME: REPORT FORMAT:
☐ 10 min Day ☐ 15 min Day ☐ 30 min Day ☐ 1 hr Day ☐ 2 hr Day ☐ 4 hr Day ☐ 8 hr Day ☐ 16 hr Day ☐ 24 hr Day
☐ 10 min Night ☐ 15 min Night ☐ 30 min Night ☐ 1 hr Night ☐ 2 hr Night ☐ 4 hr Night ☐ 8 hr Night ☐ 16 hr Night ☐ 24 hr Night
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☐ 10 min Night ☐ 15 min Night ☐ 30 min Night ☐ 1 hr Night ☐ 2 hr Night ☐ 4 hr Night ☐ 8 hr Night ☐ 16 hr Night ☐ 24 hr Night

LAB ID	CLIENT'S SAMPLE ID	DATE/TIME SAMPLED	MATRIX	CONC	TYPE	FAH-SIM (8270C)	TPH-D (8015M)	TPH-Q (8015M)	PCBs (8082)	NIT Subsampling	ANALYSIS REQUESTED	REMARKS
001A	244LDU11	3-11/1100	Soil	1	PL Bag	✓	✓	✓	✓	✓	✓	
002A	244LDU12	3-11/1100	Soil	1	PL Bag	✓	✓	✓	✓	✓	✓	
003A	244LDU13	3-11/1100	Soil	1	PL Bag	✓	✓	✓	✓	✓	✓	
004A	244LDU14	3-11/1100	Soil	1	PL Bag	✓	✓	✓	✓	✓	✓	
005A	244LDU15	3-11/1100	Soil	1	PL Bag	✓	✓	✓	✓	✓	✓	
006A	244LDU16	3-11/1100	Soil	1	PL Bag	✓	✓	✓	✓	✓	✓	
007A	244LDU17	3-11/1100	Soil	1	PL Bag	✓	✓	✓	✓	✓	✓	
008A	244LDU18	3-11/1100	Soil	1	PL Bag	✓	✓	✓	✓	✓	✓	
009A	244LDU19	3-11/1100	Soil	1	PL Bag	✓	✓	✓	✓	✓	✓	
010A	244LDU19	3-11/1100	Soil	1	PL Bag	✓	✓	✓	✓	✓	✓	

DATE: 3-11-11 TIME: 12:23 PM DATE: 3-11-11 TIME: 12:23 PM
LABORATORY: Earth Services & Training Center, LLC ANALYST: S. Nakashima/R. Lum
CLIENT: Earth Services & Training Center, LLC PROJECT: 48-2408 Prunella Piggy
NOTE: Samples are discarded by the laboratory 30 days from date of sample unless other arrangements are made.
Log in by: 3-3-11 Date: 3-3-11 Time: 12:23 PM
3. FedEx 3-3-11 12:23 PM 11:23 AM 3-3-11 12:23 PM

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ANALYTICAL REPORT

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

TestAmerica Job ID: HUI0005
Client Project/Site: 06-2048
Client Project Description: A&B Piggery

For:
EnviroServices & Training Center
505 Ward Avenue, Suite 202
Honolulu, HI 96814

Attn: Sharla Nakashima

Authorized for release by:
09/19/2011 03:16:40 PM
Margie Pascua Thach
Project Manager
margie.pascua@testamentinc.com
Designee for
Marvin D. Heskett III
Laboratory Director
marvin.heskett@testamentinc.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.

Sample Summary

Client: EnviroServices & Training Center
Project/Site: 06-2048

TestAmerica Job ID: HUI0005

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
HUI0005-01	2048.DU14	Solid/Sol	06/20/11 15:30	09/01/11 13:22
HUI0005-02	2048.DU15	Solid/Sol	06/20/11 15:00	09/01/11 13:22
HUI0005-03	2048.DU16	Solid/Sol	06/20/11 11:00	09/01/11 13:22
HUI0005-04	2048.DU17	Solid/Sol	06/20/11 10:05	09/01/11 13:22
HUI0005-05	2048.DU18	Solid/Sol	06/20/11 14:15	09/01/11 13:22
HUI0005-06	2048.DU19	Solid/Sol	06/21/11 10:00	09/01/11 13:22
HUI0005-07	2048.DU20	Solid/Sol	06/20/11 09:20	09/01/11 13:22
HUI0005-08	2048.DU21	Solid/Sol	06/20/11 09:20	09/01/11 13:22
HUI0005-09	2048.DU22	Solid/Sol	06/20/11 10:15	09/01/11 13:22
HUI0005-10	2048.DU23	Solid/Sol	06/20/11 13:30	09/01/11 13:22

Detection Summary

Client: EnviroServices & Training Center
Project/Site: 06-2048

TestAmerica Job ID: HUI0005

Client Sample ID: 2048.DU14										Lab Sample ID: HUI0005-01									
Analyte	Lead	Result	Qualifier	RL	MDL	Unit	Diff	Fac	D	Method	Prep	Type	Total						
		37		2.9		mg/kg	10			60108 TUP									
Client Sample ID: 2048.DU15										Lab Sample ID: HUI0005-02									
Analyte	Lead	Result	Qualifier	RL	MDL	Unit	Diff	Fac	D	Method	Prep	Type	Total						
		17		2.7		mg/kg	10			60108 TUP									
Client Sample ID: 2048.DU16										Lab Sample ID: HUI0005-03									
Analyte	Lead	Result	Qualifier	RL	MDL	Unit	Diff	Fac	D	Method	Prep	Type	Total						
		30		2.7		mg/kg	10			60108 TUP									
Client Sample ID: 2048.DU17										Lab Sample ID: HUI0005-04									
Analyte	Lead	Result	Qualifier	RL	MDL	Unit	Diff	Fac	D	Method	Prep	Type	Total						
		84		2.9		mg/kg	10			60108 TUP									
Client Sample ID: 2048.DU18										Lab Sample ID: HUI0005-05									
Analyte	Lead	Result	Qualifier	RL	MDL	Unit	Diff	Fac	D	Method	Prep	Type	Total						
		23		2.7		mg/kg	10			60108 TUP									
Client Sample ID: 2048.DU19										Lab Sample ID: HUI0005-06									
Analyte	Lead	Result	Qualifier	RL	MDL	Unit	Diff	Fac	D	Method	Prep	Type	Total						
		13		2.8		mg/kg	10			60108 TUP									
Client Sample ID: 2048.DU20										Lab Sample ID: HUI0005-07									
Analyte	Lead	Result	Qualifier	RL	MDL	Unit	Diff	Fac	D	Method	Prep	Type	Total						
		12		2.7		mg/kg	10			60108 TUP									
Client Sample ID: 2048.DU21										Lab Sample ID: HUI0005-08									
Analyte	Lead	Result	Qualifier	RL	MDL	Unit	Diff	Fac	D	Method	Prep	Type	Total						
		130		2.7		mg/kg	10			60108 TUP									
Client Sample ID: 2048.DU22										Lab Sample ID: HUI0005-09									
Analyte	Lead	Result	Qualifier	RL	MDL	Unit	Diff	Fac	D	Method	Prep	Type	Total						
		36		2.8		mg/kg	10			60108 TUP									
Client Sample ID: 2048.DU23										Lab Sample ID: HUI0005-10									
Analyte	Lead	Result	Qualifier	RL	MDL	Unit	Diff	Fac	D	Method	Prep	Type	Total						
		24		2.7		mg/kg	10			60108 TUP									

Client Sample Results

Client: EnviroServices & Training Center
Project/Site: 06-2048

TestAmerica Job ID: HU0005

Client Sample ID: 2048.DU14
Date Collected: 09/30/11 15:30
Date Received: 09/01/11 13:22Lab Sample ID: HU0005-01
Matrix: Solid/SoilMethod: 6010B TMP - Metals (ICP)
Analysis: Lead
Result: 37
Qualifier: 37
RL: 2.9
MDL Unit: mg/Kg
D: 09/15/11 13:11
Prepared: 09/16/11 00:03
Analyzed: 09/16/11 00:03
Def Fac: 10Client Sample ID: 2048.DU15
Date Collected: 09/30/11 15:30
Date Received: 09/01/11 13:22Lab Sample ID: HU0005-02
Matrix: Solid/SoilMethod: 6010B TMP - Metals (ICP)
Analysis: Lead
Result: 17
Qualifier: 17
RL: 2.7
MDL Unit: mg/Kg
D: 09/15/11 13:11
Prepared: 09/16/11 00:10
Analyzed: 09/16/11 00:10
Def Fac: 10Client Sample ID: 2048.DU16
Date Collected: 09/30/11 15:30
Date Received: 09/01/11 13:22Lab Sample ID: HU0005-03
Matrix: Solid/SoilMethod: 6010B TMP - Metals (ICP)
Analysis: Lead
Result: 30
Qualifier: 30
RL: 2.7
MDL Unit: mg/Kg
D: 09/15/11 13:11
Prepared: 09/16/11 00:17
Analyzed: 09/16/11 00:17
Def Fac: 10Client Sample ID: 2048.DU17
Date Collected: 09/30/11 15:30
Date Received: 09/01/11 13:22Lab Sample ID: HU0005-04
Matrix: Solid/SoilMethod: 6010B TMP - Metals (ICP)
Analysis: Lead
Result: 24
Qualifier: 24
RL: 2.9
MDL Unit: mg/Kg
D: 09/15/11 13:11
Prepared: 09/16/11 00:24
Analyzed: 09/16/11 00:24
Def Fac: 10Client Sample ID: 2048.DU18
Date Collected: 09/30/11 14:15
Date Received: 09/01/11 13:22Lab Sample ID: HU0005-05
Matrix: Solid/SoilMethod: 6010B TMP - Metals (ICP)
Analysis: Lead
Result: 20
Qualifier: 20
RL: 2
MDL Unit: mg/Kg
D: 09/15/11 13:11
Prepared: 09/16/11 00:31
Analyzed: 09/16/11 00:31
Def Fac: 10Client Sample ID: 2048.DU19
Date Collected: 09/30/11 10:00
Date Received: 09/01/11 13:22Lab Sample ID: HU0005-06
Matrix: Solid/SoilMethod: 6010B TMP - Metals (ICP)
Analysis: Lead
Result: 13
Qualifier: 13
RL: 2.8
MDL Unit: mg/Kg
D: 09/15/11 13:11
Prepared: 09/16/11 00:38
Analyzed: 09/16/11 00:38
Def Fac: 10

Client Sample Results

Client: EnviroServices & Training Center
Project/Site: 06-2048

TestAmerica Job ID: HU0005

Client Sample ID: 2048.DU20
Date Collected: 09/30/11 09:20
Date Received: 09/01/11 13:22Lab Sample ID: HU0005-07
Matrix: Solid/SoilMethod: 6010B TMP - Metals (ICP)
Analysis: Lead
Result: 12
Qualifier: 12
RL: 2.7
MDL Unit: mg/Kg
D: 09/15/11 13:11
Prepared: 09/16/11 00:45
Analyzed: 09/16/11 00:45
Def Fac: 10Client Sample ID: 2048.DU21
Date Collected: 09/30/11 09:20
Date Received: 09/01/11 13:22Lab Sample ID: HU0005-08
Matrix: Solid/SoilMethod: 6010B TMP - Metals (ICP)
Analysis: Lead
Result: 150
Qualifier: 150
RL: 2.7
MDL Unit: mg/Kg
D: 09/15/11 13:11
Prepared: 09/16/11 00:52
Analyzed: 09/16/11 00:52
Def Fac: 10Client Sample ID: 2048.DU22
Date Collected: 09/30/11 10:15
Date Received: 09/01/11 13:22Lab Sample ID: HU0005-09
Matrix: Solid/SoilMethod: 6010B TMP - Metals (ICP)
Analysis: Lead
Result: 38
Qualifier: 38
RL: 2.8
MDL Unit: mg/Kg
D: 09/15/11 13:11
Prepared: 09/16/11 01:12
Analyzed: 09/16/11 01:12
Def Fac: 10Client Sample ID: 2048.DU23
Date Collected: 09/30/11 13:30
Date Received: 09/01/11 13:22Lab Sample ID: HU0005-10
Matrix: Solid/SoilMethod: 6010B TMP - Metals (ICP)
Analysis: Lead
Result: 34
Qualifier: 34
RL: 2.7
MDL Unit: mg/Kg
D: 09/15/11 13:11
Prepared: 09/16/11 01:19
Analyzed: 09/16/11 01:19
Def Fac: 10

QC Association Summary

Method: 6010B TMP - Metals (ICP)

Client Sample ID: Method Blank												
Prep Type: Total						Prep Batch: 95447_P						
Sample ID	Matrix	Analyte	Lead	Blank	Result	Qualifier	MDL	Unit	D	Prepared	Analyzed	Dil Fac
95517-4	Soil			Blank			1.5	mg/kg		08/15/11 13:13	08/16/11 22:49	1
Lab Sample ID: 95517-2												
Matrix: Soil												
Analyte Batch: 95447												
Analyte				Spike					D	% Rec	Recovery	
Lead				Added	47.5	Result		mg/kg	96	80 - 120		
Client Sample ID: Lab Control Sample												
Prep Type: Total												
Prep Batch: 95447_P												
Analyte				Spike					D	% Rec	Recovery	
Lead				Added	47.5	Result		mg/kg	95	80 - 120		
Client Sample ID: Lab Control Sample Dup												
Prep Type: Total												
Prep Batch: 95447_P												
Analyte				Spike					D	% Rec	Recovery	
Lead				Added	47.5	Result		mg/kg	95	80 - 120		
Client Sample ID: Lab Control Sample												
Prep Type: Total												
Prep Batch: 95447_P												
Analyte				Spike					D	% Rec	Recovery	
Lead				Added	158	Result		mg/kg	104	75.3 - 125		
Client Sample ID: 95517-4												
Matrix: Soil												
Analyte Batch: 95447												
Analyte				Spike					D	% Rec	Recovery	
Lead				Added	152	Result		mg/kg	104	75.3 - 125		

TSEA
Analysis Batch: 95447

Lab Sample ID	Lab Sample ID
95317-1	95317-1
95317-2	95317-2
95317-3	95317-3
95317-4	95317-4
HJ0005-01	HJ0005-01
HJ0005-02	HJ0005-02
HJ0005-03	HJ0005-03
HJ0005-04	HJ0005-04
HJ0005-05	HJ0005-05
HJ0005-06	HJ0005-06
HJ0005-07	HJ0005-07
HJ0005-08	HJ0005-08
HJ0005-09	HJ0005-09
HJ0005-10	HJ0005-10

Prep Batch: 95447_P

Lab Sample ID
95317-1
95317-2
95317-3
95317-4
HU0005-01
HU0005-02
HU0005-03
HU0005-04
HU0005-05
HU0005-06
HU0005-07
HU0005-08
HU0005-09
HU0005-10

Client Sample ID: 2048.DU14
Date Collected: 08/30/11 15:30
Date Received: 09/01/11 13:22

Lab Sample ID: HU0005-01
Matrix: Solid/Soil

Prep Type	Batch Type	Batch Method	Batch Number	Dilution Factor	Run	Prepared Or Analyzed	Analyst	Lab
Total	Prep	3050B	95447_P	10		09/15/11 13:11	SP	TAL SEA
Total	Analysis	6010B TUP	95447			09/16/11 00:03		TAL SEA

Client Sample ID: 2048.DU15
Date Collected: 08/30/11 16:00
Date Received: 09/01/11 13:22

Lab Sample ID: HU0005-02
Matrix: Solid/Soil

Prep Type	Batch Type	Batch Method	Batch Number	Dilution Factor	Run	Prepared Or Analyzed	Analyst	Lab
Total	Prep	3050B	95447_P	10		09/15/11 13:11	SP	TAL SEA
Total	Analysis	6010B TUP	95447			09/16/11 00:10		TAL SEA

Client Sample ID: 2048.DU16
Date Collected: 08/30/11 11:00
Date Received: 09/01/11 13:22

Lab Sample ID: HU0005-03
Matrix: Solid/Soil

Prep Type	Batch Type	Batch Method	Batch Number	Dilution Factor	Run	Prepared Or Analyzed	Analyst	Lab
Total	Prep	3050B	95447_P	10		09/15/11 13:11	SP	TAL SEA
Total	Analysis	6010B TUP	95447			09/16/11 00:17		TAL SEA

Client Sample ID: 2048.DU17
Date Collected: 08/30/11 10:05
Date Received: 09/01/11 13:22

Lab Sample ID: HU0005-04
Matrix: Solid/Soil

Prep Type	Batch Type	Batch Method	Batch Number	Dilution Factor	Run	Prepared Or Analyzed	Analyst	Lab
Total	Prep	3050B	95447_P	10		09/15/11 13:11	SP	TAL SEA
Total	Analysis	6010B TUP	95447			09/16/11 00:24		TAL SEA

Client Sample ID: 2048.DU18
Date Collected: 08/30/11 14:15
Date Received: 09/01/11 13:22

Lab Sample ID: HU0005-05
Matrix: Solid/Soil

Prep Type	Batch Type	Batch Method	Batch Number	Dilution Factor	Run	Prepared Or Analyzed	Analyst	Lab
Total	Prep	3050B	95447_P	10		09/15/11 13:11	SP	TAL SEA
Total	Analysis	6010B TUP	95447			09/16/11 00:31		TAL SEA

Client Sample ID: 2048.DU19
Date Collected: 08/31/11 10:00
Date Received: 09/01/11 13:22

Lab Sample ID: HU0005-06
Matrix: Solid/Soil

Prep Type	Batch Type	Batch Method	Batch Number	Dilution Factor	Run	Prepared Or Analyzed	Analyst	Lab
Total	Prep	3050B	95447_P	10		09/15/11 13:11	SP	TAL SEA
Total	Analysis	6010B TUP	95447			09/16/11 00:38		TAL SEA

Client Sample ID: 2048.DU20
Date Collected: 08/30/11 09:20
Date Received: 09/01/11 13:22

Lab Sample ID: HU0005-07
Matrix: Solid/Soil

Prep Type	Batch Type	Batch Method	Batch Number	Dilution Factor	Run	Prepared Or Analyzed	Analyst	Lab
Total	Prep	3050B	95447_P	10		09/15/11 13:11	SP	TAL SEA
Total	Analysis	6010B TUP	95447			09/16/11 00:45		TAL SEA

Client Sample ID: 2048.DU21
Date Collected: 08/30/11 09:20
Date Received: 09/01/11 13:22

Lab Sample ID: HU0005-08
Matrix: Solid/Soil

Prep Type	Batch Type	Batch Method	Batch Number	Dilution Factor	Run	Prepared Or Analyzed	Analyst	Lab
Total	Prep	3050B	95447_P	10		09/15/11 13:11	SP	TAL SEA
Total	Analysis	6010B TUP	95447			09/16/11 00:52		TAL SEA

Client Sample ID: 2048.DU22
Date Collected: 08/30/11 10:15
Date Received: 09/01/11 13:22

Lab Sample ID: HU0005-09
Matrix: Solid/Soil

Prep Type	Batch Type	Batch Method	Batch Number	Dilution Factor	Run	Prepared Or Analyzed	Analyst	Lab
Total	Prep	3050B	95447_P	10		09/15/11 13:11	SP	TAL SEA
Total	Analysis	6010B TUP	95447			09/16/11 01:12		TAL SEA

Client Sample ID: 2048.DU23
Date Collected: 08/30/11 13:30
Date Received: 09/01/11 13:22

Lab Sample ID: HU0005-10
Matrix: Solid/Soil

Prep Type	Batch Type	Batch Method	Batch Number	Dilution Factor	Run	Prepared Or Analyzed	Analyst	Lab
Total	Prep	3050B	95447_P	10		09/15/11 13:11	SP	TAL SEA
Total	Analysis	6010B TUP	95447			09/16/11 01:19		TAL SEA

Laboratory Reference:
TAL SEA v TestAmerica Gentek, 5755 8th Street East Tacoma, WA 98424, TEL (253) 922-2310

Method Summary

Client: EnviroServices & Training Center
Project/Site: 06-2048

TestAmerica Job ID: HU00005

Method	Method Description	Protocol	Laboratory
60108 TUP	Mosses (CP)		TAL SEA

Protocol References:

Laboratory References:
TAL SEA - TestAmerica Seattle, 3755 8th Street East, Tacoma, WA 98424 TEL (253) 622-2310

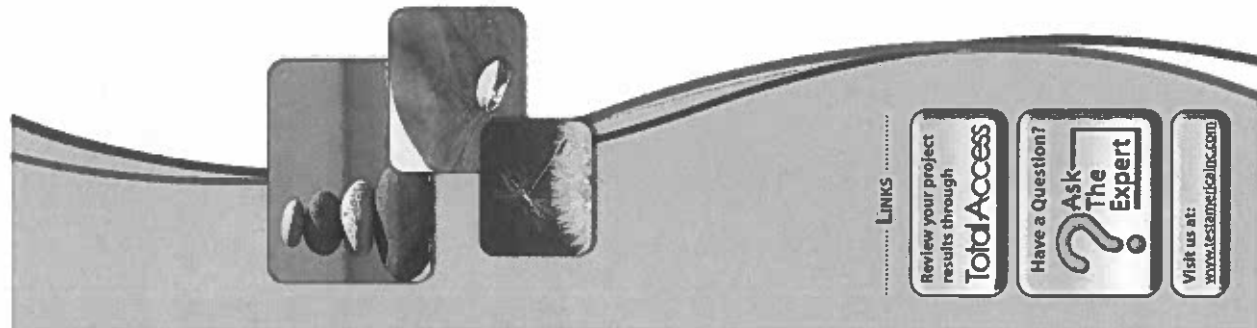
Certification Summary

Client: EnviroServices & Training Center
Project/Site: 06-2048

TestAmerica Job ID: HU00005

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Honolulu	Florida	NELAC	4	EFT807
TestAmerica Honolulu	Hawaii	State Program	9	
TestAmerica Honolulu	L-A-B	DND ELAP		L2250
TestAmerica Honolulu	USDA	USDA		HON-S-206
TestAmerica Seattle	Alaska	Alaska UST	10	UST-022
TestAmerica Seattle	Alaska	T-A-Port Heiden Mobile Lab	10	UST-093
TestAmerica Seattle	California	NELAC	9	1118CA
TestAmerica Seattle	Florida	NELAC	4	EFT1074
TestAmerica Seattle	L-A-B	DND ELAP		L2236
TestAmerica Seattle	L-A-B	ISO/IEC 17025		L2238
TestAmerica Seattle	Louisiana	NELAC	8	08018
TestAmerica Seattle	Montana	MT DEQ UST	8	N/A
TestAmerica Seattle	Oregon	NELAC	10	WA100007
TestAmerica Seattle	USDA	USDA		P130-11-00223
TestAmerica Seattle	Washington	State Program	10	C553

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.



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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-28558-1
Client Project/Site: HUI0005

For:

TestAmerica Laboratories, Inc
99-193 Alea Heights Drive
Suite 121
Alea Hawaii 96701

Attn: Marvin D Heskett III

Pamela R. Johnson

Authorized for release by:
09/16/2011 04:17:21 PM

Pam Johnson
Project Manager I
pamr.johnson@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.

Client: TestAmerica Laboratories, Inc
Project/Site: HUI0005

TestAmerica Job ID: 580-28558-1

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Definitions/Glossary

Client: TestAmerica Laboratories, Inc
Project/Site: HUI0005

TestAmerica Job ID: 580-28558-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
-J	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
DL, RA, RE, IN	Indicates a Detection, Remediation, Restriction, or additional level measurement analysis of the sample
EDL	Estimated Detection Limit (Down)
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Down)
ND	Not detected at the reporting limit (or method detection limit if shown)
POL	Practical Quantization Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Down)
TEQ	Toxicity Equivalent Quotient (Down)

Client Sample Results

Client: TestAmerica Laboratories, Inc
Project/Site: HUI0005

TestAmerica Job ID: 580-28558-1

Client Sample ID: HUI0005-01
Date Collected: 08/29/11 15:30
Data Received: 09/09/11 10:00

Lab Sample ID: 580-28558-1
Matrix: Solid

Method: 6010B - Metals (ICP)	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Off Pic
Analyte Lead	37		2.9		mg/kg		08/19/11 13:11	08/19/11 00:03	10

Client Sample Results

Client: TestAmerica Laboratories, Inc
Project/Site: HU10005

TestAmerica Job ID: 580-28558-1

Client Sample Results

Client: Tesla America Laboratories, Inc
Project/Site: HU10005

TestAmerica Job ID: 580-28558-1

Client Sample ID: HUI0005-02
Date Collected: 08/30/11 16:00
Data Received: 09/09/11 10:00

Lab Sample ID: 580-28558-2
Matrix: Solid

Lab Sample ID: 560-28558-3
Matrix: Solid

Method: 5010B - Metals (ICP)			
Analyte	Result	Qualifier	RL
Lead	17		2.7
			mg/kg
			D
		Prepared	09/18/11 12:11
		Analyzed	09/18/11 02:10
		Cell Fac	118

Method: 6040B - Metals (ICP)									
Analysis	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Lead	30		2.7	mc/kg		2015/11/13 11	2016/11/03 12	10	

Client Sample Results

Client: TestAmerica Laboratories, Inc
Project/Site: HUI0005

TestAmerica Job ID: 580-28558-1

Client Sample ID: HUI0005-04
Date Collected: 08/30/11 10:05
Date Received: 09/09/11 10:00

Lab Sample ID: 580-28558-4
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Diff	File
Lead	8.4		2.9		mg/kg		08/15/11 13:11	08/16/11 00:24		10

Client Sample Results

Client: TestAmerica Laboratories, Inc
Project/Site: HUI0005

TestAmerica Job ID: 580-28558-1

Client Sample ID: HUI0005-05

Lab Sample ID: 580-28558-5

Date Collected: 08/30/11 14:15

Date Received: 09/09/11 10:00

Matrix: Solid

Method: 6010B - Metals (ICP)

Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Diff	File
23		2.7		mg/kg		08/15/11 13:11	08/16/11 00:31		10

Lead

Client Sample Results

Client: TestAmerica Laboratories, Inc
Project/Site: HUI0005

TestAmerica Job ID: 580-28558-1

Client Sample ID: HUI0005-06
Date Collected: 08/20/11 10:11
Date Received: 09/09/11 10:30

Lab Sample ID: 580-28558-6
Matrix: Solid

Method: 6010B - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analysed	Diff %
Lead	15		2.0		mg/kg		08/25/11 12:11	09/08/11 00:38	10

Client Sample Results

Client: TestAmerica Laboratories, Inc
Project/Site: HUI0005

TestAmerica Job ID: 580-28558-1

Client Sample ID: HUI0005-07
Date Collected: 08/20/11 09:20
Date Received: 09/09/11 10:00

Lab Sample ID: 580-28558-7
Matrix: Solid

Method: 6010B - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analysed	Diff %
Lead	12		2.7		mg/kg		08/25/11 12:11	09/08/11 00:45	10

Client Sample Results

Client: TestAmerica Laboratories, Inc.
Project/Site: HU10005

TestAmerica Job ID: 580-28558-1

Client Sample Results

Client: TestAmerica Laboratories, Inc
Project/Site: HU10005

TestAmenca Job ID: 580-28558-1

Client Sample ID: HUI0005-08
Date Collected: 08/30/11 09:20
Date Received: 09/08/11 10:00

Lab Sample ID: 580-28558-8
Matrix: Solid

Lab Sample ID: 580-28558-9
Matrix: Solid

Method: 6010B - Metals (ICP)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared
Lead	130		2.7	mg/kg		09/16/11 13:11
						09/16/11 00:52
						10

Method: 6010B - Metals (ICP)		Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Off Fac
Lab#	Analyte							On (SU)	On (SU)	
18	Lead	38		2.6		mg/kg		06/16/11 13:11	06/16/11 01:12	

Client Sample Results

Client: TestAmerica Laboratories, Inc
Project/Site: HUI0005

TestAmerica Job ID: 580-28558-10

Client Sample ID: HUI0005-10
Date Collected: 09/09/11 13:30
Date Received: 09/09/11 10:00Lab Sample ID: 580-28558-10
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte
LeadResult
34QC
2.7MDL Unit
mg/KgD
09/15/11 13:11Prepared
09/15/11 01:19Analyzed
09/15/11 01:19Diff Fac
10

QC Sample Results

Client: TestAmerica Laboratories, Inc
Project/Site: HUI0005

TestAmerica Job ID: 580-28558-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 580-9544718-A
Matrix: Solid
Analysis Batch: 95517Analyte
LeadResult
NDQC
1.5MDL Unit
mg/KgD
09/15/11 12:49Prepared
09/15/11 12:49Analyzed
09/15/11 12:49Diff Fac
1

Lab Sample ID: LCS 580-9544719-A

Matrix: Solid

Analysis Batch: 95517

Analyte
LeadResult
50.0QC
47.5MDL Unit
mg/KgD
09/15/11 12:49Prepared
09/15/11 12:49Analyzed
09/15/11 12:49Diff Fac
1

Lab Sample ID: LCSD 580-9544720-A

Matrix: Solid

Analysis Batch: 95517

Analyte
LeadResult
50.0QC
47.5MDL Unit
mg/KgD
09/15/11 12:49Prepared
09/15/11 12:49Analyzed
09/15/11 12:49Diff Fac
1

Lab Sample ID: LCSSRM 580-9544721-A

Matrix: Solid

Analysis Batch: 95517

Analyte
LeadResult
152QC
158MDL Unit
mg/KgD
09/15/11 12:49Prepared
09/15/11 12:49Analyzed
09/15/11 12:49Diff Fac
1

Lab Chronicle

Client: TestAmerica Laboratories, Inc.
Project/Site: HUI0005

TestAmerica Job ID: 580-28558-1

Client Sample ID: HUI0005-01

Date Collected: 08/20/11 15:30

Date Received: 09/09/11 10:00

Lab Sample ID: 580-28558-1

Matrix: Solid

Prep Type	Batch	Method	Run	Dilution	Batch	Prepared	Analyst	Lab
Type	Type	Type		Factor	Number	Or Analyzed	PAB	TAL SEA
Total/NA	Prep	30508		10	85447	08/15/11 13:11	SP	TAL SEA
	Analysis	60108			93517	09/19/11 00:03		

Client Sample ID: HUI0005-02

Date Collected: 08/20/11 15:00

Date Received: 09/09/11 10:00

Lab Sample ID: 580-28558-2

Matrix: Solid

Prep Type	Batch	Method	Run	Dilution	Batch	Prepared	Analyst	Lab
Type	Type	Type		Factor	Number	Or Analyzed	PAB	TAL SEA
Total/NA	Prep	30508		10	85447	08/15/11 13:11	SP	TAL SEA
	Analysis	60108			93517	09/19/11 00:10		

Client Sample ID: HUI0005-03

Date Collected: 08/20/11 11:00

Date Received: 09/09/11 10:00

Lab Sample ID: 580-28558-3

Matrix: Solid

Prep Type	Batch	Method	Run	Dilution	Batch	Prepared	Analyst	Lab
Type	Type	Type		Factor	Number	Or Analyzed	PAB	TAL SEA
Total/NA	Prep	30508		10	85447	08/15/11 13:11	SP	TAL SEA
	Analysis	60108			93517	09/19/11 00:17		

Client Sample ID: HUI0005-04

Date Collected: 08/20/11 10:05

Date Received: 09/09/11 10:00

Lab Sample ID: 580-28558-4

Matrix: Solid

Prep Type	Batch	Method	Run	Dilution	Batch	Prepared	Analyst	Lab
Type	Type	Type		Factor	Number	Or Analyzed	PAB	TAL SEA
Total/NA	Prep	30508		10	85447	08/15/11 13:11	SP	TAL SEA
	Analysis	60108			93517	09/19/11 00:24		

Client Sample ID: HUI0005-05

Date Collected: 08/20/11 14:15

Date Received: 09/09/11 10:00

Lab Sample ID: 580-28558-5

Matrix: Solid

Prep Type	Batch	Method	Run	Dilution	Batch	Prepared	Analyst	Lab
Type	Type	Type		Factor	Number	Or Analyzed	PAB	TAL SEA
Total/NA	Prep	30508		10	85447	08/15/11 13:11	SP	TAL SEA
	Analysis	60108			93517	09/19/11 00:31		

Client Sample ID: HUI0005-06

Date Collected: 08/20/11 10:11

Date Received: 09/09/11 10:00

Lab Sample ID: 580-28558-6

Matrix: Solid

Prep Type	Batch	Method	Run	Dilution	Batch	Prepared	Analyst	Lab
Type	Type	Type		Factor	Number	Or Analyzed	PAB	TAL SEA
Total/NA	Prep	30508		10	85447	08/15/11 13:11	SP	TAL SEA
	Analysis	60108			93517	09/19/11 00:38		

Lab Chronicle

Client: TestAmerica Laboratories, Inc.
Project/Site: HUI0005

TestAmerica Job ID: 580-28558-1

Client Sample ID: HUI0005-07

Date Collected: 08/20/11 09:20

Date Received: 09/09/11 10:00

Lab Sample ID: 580-28558-7

Matrix: Solid

Prep Type	Batch	Method	Run	Dilution	Batch	Prepared	Analyst	Lab
Type	Type	Type		Factor	Number	Or Analyzed	PAB	TAL SEA
Total/NA	Prep	30508		10	85447	08/15/11 13:11	SP	TAL SEA
	Analysis	60108			93517	09/19/11 00:45		

Client Sample ID: HUI0005-08

Date Collected: 08/20/11 09:20

Date Received: 09/09/11 10:00

Lab Sample ID: 580-28558-8

Matrix: Solid

Prep Type	Batch	Method	Run	Dilution	Batch	Prepared	Analyst	Lab
Type	Type	Type		Factor	Number	Or Analyzed	PAB	TAL SEA
Total/NA	Prep	30508		10	85447	08/15/11 13:11	SP	TAL SEA
	Analysis	60108			93517	09/19/11 00:52		

Client Sample ID: HUI0005-09

Date Collected: 08/20/11 10:16

Date Received: 09/09/11 10:00

Lab Sample ID: 580-28558-9

Matrix: Solid

Prep Type	Batch	Method	Run	Dilution	Batch	Prepared	Analyst	Lab
Type	Type	Type		Factor	Number	Or Analyzed	PAB	TAL SEA
Total/NA	Prep	30508		10	85447	08/15/11 13:11	SP	TAL SEA
	Analysis	60108			93517	09/19/11 01:12		

Client Sample ID: HUI0005-10

Date Collected: 08/20/11 13:30

Date Received: 09/09/11 10:00

Lab Sample ID: 580-28558-10

Matrix: Solid

Prep Type	Batch	Method	Run	Dilution	Batch	Prepared	Analyst	Lab
Type	Type	Type		Factor	Number	Or Analyzed	PAB	TAL SEA
Total/NA	Prep	30508		10	85447	08/15/11 13:11	SP	TAL SEA
	Analysis	60108			93517	09/19/11 01:19		

Laboratory Reference:
TAL SEA - TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424 TEL (253) 822-2310

Certification Summary

Client: TestAmerica Laboratories, Inc
Project/Site: HUI0005

TestAmerica Job ID: 550-28558-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Seattle	Alaska	Alaska LIST	10	LIST-422
TestAmerica Seattle	Alaska	T-A-Port Haden Mobile Lab	10	LIST-403
TestAmerica Seattle	California	NEJAC	9	1115CA
TestAmerica Seattle	Florida	NEJAC	4	E371074
TestAmerica Seattle	L-A-B	ISO/IEC 17025		L2236
TestAmerica Seattle	L-A-B	ISO/IEC 17025		L2236
TestAmerica Seattle	Louisiana	NEJAC	6	05015
TestAmerica Seattle	Montana	MT DEQ LIST	8	N/A
TestAmerica Seattle	Oregon	NEJAC	10	WA 100097
TestAmerica Seattle	USDA	USDA		P330-14-0222
TestAmerica Seattle	Washington	State Program	10	C553

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

Sample Summary

Client: TestAmerica Laboratories, Inc
Project/Site: HUI0005

TestAmerica Job ID: 550-28558-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
550-28558-1	HUI0005-01	Solid	08/20/11 13:30	09/09/11 10:00
550-28558-2	HUI0005-02	Solid	08/20/11 15:00	09/09/11 10:00
550-28558-3	HUI0005-03	Solid	08/20/11 11:00	09/09/11 10:00
550-28558-4	HUI0005-04	Solid	08/20/11 10:05	09/09/11 10:00
550-28558-5	HUI0005-05	Solid	08/20/11 14:15	09/09/11 10:00
550-28558-6	HUI0005-06	Solid	08/20/11 10:11	09/09/11 10:00
550-28558-7	HUI0005-07	Solid	08/20/11 09:20	09/09/11 10:00
550-28558-8	HUI0005-08	Solid	08/20/11 09:20	09/09/11 10:00
550-28558-9	HUI0005-09	Solid	08/20/11 10:15	09/09/11 10:00
550-28558-10	HUI0005-10	Solid	08/20/11 13:30	09/09/11 10:00

Subcontract Order - TestAmerica Honolulu (HUI0005)

28558

Please enter the following code into the Job PO Number field for automated UIDZ transfer files: Sub HON HUI0005

SENDING LABORATORY:				RECEIVING LABORATORY:			
TestAmerica Honolulu				TestAmerica Seattle			
66-183 Alca Heights Drive, Suite 121				5755 8th Street East			
Tacoma, WA 98424				Tacoma, WA 98424			
Phone: 808-486-5227				Phone: (253) 922-2310			
Fax: 808-486-2456				Fax: 253			
Project Manager: Marvin D. Haskett III				Project Location: Hawaii			
Client: EnviroServices & Training Center				Receipt Temperature: °C			
				Icc: Y / N			

Copy from HUI0004

Analysis	Units	Due	Expires	Interlab Price Surch	Comments
Sample ID: HUI0005-01 (2048.DU14 - Solid/Soil)					
Lead 10g Total SW 60108	mg/kg	09/16/11	02/26/12 15:30	\$22.50	0%
Containers Supplied:					
Incremental					
Sub-sample (analyze entire content) (A)					
Sample ID: HUI0005-02 (2048.DU15 - Solid/Soil)					
Lead 10g Total SW 60108	mg/kg	09/16/11	02/26/12 15:00	\$22.50	0%
Containers Supplied:					
Incremental					
Sub-sample (analyze entire content) (A)					
Sample ID: HUI0005-03 (2048.DU16 - Solid/Soil)					
Lead 10g Total SW 60108	mg/kg	09/16/11	02/26/12 11:00	\$22.50	0%
Containers Supplied:					
Incremental					
Sub-sample (analyze entire content) (A)					
Sample ID: HUI0005-04 (2048.DU17 - Solid/Soil)					
Lead 10g Total SW 60108	mg/kg	09/16/11	02/26/12 10:05	\$22.50	0%
Containers Supplied:					
Incremental					
Sub-sample (analyze entire content) (A)					

Released By	Date/Time	Received By	Date/Time

Subcontract Order - TestAmerica Honolulu (HUI0005)

28558

Please enter the following code into the Job PO Number field for automated UIDZ transfer files: Sub HON HUI0005

Analysis	Units	Due	Expires	Interlab Price Surch	Comments
Sample ID: HUI0005-05 (2048.DU18 - Solid/Soil)					
Lead 10g Total SW 60108	mg/kg	09/16/11	02/26/12 14:15	\$22.50	0%
Containers Supplied:					
Incremental					
Sub-sample (analyze entire content) (A)					
Sample ID: HUI0005-06 (2048.DU19 - Solid/Soil)					
Lead 10g Total SW 60108	mg/kg	09/16/11	02/27/12 10:00	\$22.50	0%
Containers Supplied:					
Incremental					
Sub-sample (analyze entire content) (A)					
Sample ID: HUI0005-07 (2048.DU20 - Solid/Soil)					
Lead 10g Total SW 60108	mg/kg	09/16/11	02/26/12 09:20	\$22.50	0%
Containers Supplied:					
Incremental					
Sub-sample (analyze entire content) (A)					
Sample ID: HUI0005-08 (2048.DU21 - Solid/Soil)					
Lead 10g Total SW 60108	mg/kg	09/16/11	02/26/12 09:20	\$22.50	0%
Containers Supplied:					
Incremental					
Sub-sample (analyze entire content) (A)					
Sample ID: HUI0005-09 (2048.DU22 - Solid/Soil)					
Lead 10g Total SW 60108	mg/kg	09/16/11	02/26/12 10:15	\$22.50	0%
Containers Supplied:					
Incremental					
Sub-sample (analyze entire content) (A)					
Sample ID: HUI0005-10 (2048.DU23 - Solid/Soil)					
Lead 10g Total SW 60108	mg/kg	09/16/11	02/26/12 13:30	\$22.50	0%
Containers Supplied:					
Incremental					
Sub-sample (analyze entire content) (A)					



INTERNAL RECORD OF COMMUNICATION FORM

TODAYS DATE: 09/07/11 TIME: 1620
PROJECT MANAGER: Steven Garcia

PROJECT STATUS:	COMMUNICATION VIA:
☒ upcoming	☐ telephone
☐ received today	☐ facsimile
☐ in progress	☐ e-mail
☐ completed	☐ COC form
☐ on hold	☐ other
☐ other	

CLIENT: TA-Hardsell
CONTACT: Marvin Heskett
WORK ORDER NUMBER: IUI0475 / IUI0005
PROJECT ID: Enviro Services Training center
MESSAGE: Please find ex these 10 samples (2 jars)
to TA- ~~Denver~~ Seattle

Thank you,
Steven

Al
COOLER TO TA-IR corb.1 unc. 0.4
Cooler Dec 20x @ Lab
WetPacks Packing bubble
W/6 Fedex P.O.

Garcia, Steven

From: Heskett, Marvin
Sent: Wednesday, September 07, 2011 5:00 PM
To: Garcia, Steven
Cc: Johnson, Pam R.
Subject: RE: IUI0005 / IUI0475
Steven,

Please forward these to Seattle. Pam, This was a MI job that went to Irvine by mistake. 10 samples for lead only, standard TAT.

Thank You,
Marvin

From: Garcia, Steven
Sent: Wednesday, September 07, 2011 1:31 PM
To: Heskett, Marvin
Subject: IUI0005 / IUI0475

We are forwarding on these samples, but Dave mentioned Denver. Is that right? Or should they go to Seattle?

Thank you,

STEVEN A. GARCIA
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
17461 Derian Sulle #100
Irvine CA 92614
Tel 949 261 1022 X274 Fax 949 261 3297

TestAmerica

Rush TAT Confirmation (Initial/Date) N/A

Sample Receipt Checklist

Client Name: ETC Date/Time Received: 9/1/11 13:22

Received By: Mason Hinkle

Matrices: Soil Carrier: Hex Atril#:

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Chain of Custody present?	Yes ☒	No ☐	☐
Chain of Custody signed when relinquished and received?	Yes ☒	No ☐	☐
Chain of Custody agrees with sample labels?	Yes ☒	No ☐	☐
Samples in proper container/bottle?	Yes ☒	No ☐	☐
Sample containers intact?	Yes ☒	No ☐	☐
Sample containers on ice?	Yes ☒	No ☐	Type: <u>Wet</u>
Sufficient sample volume for indicated test?	Yes ☒	No ☐	☐
All samples received within holding time?	Yes ☒	No ☐	☐
Water - VOA Vials have Zero Headspace?	Yes ☒	No ☐	No VOA vials present: ☒
Water - pH acceptable upon receipt?	Yes ☒	No ☐	Not Checked: ☐
	pH Adjusted? Yes ☒	No ☐	Final pH: ☐
Encores / MI-VOC / SO3S Vials Present?	Yes ☒	No ☐	Location: ☐
Sample Filtration Needed?	Yes ☒	No ☐	Filtered in Field: ☐
Dry Weight Corrected Result?	Yes ☒	No ☐	Take Action: ☐
DODSM / OAPP Project?	Yes ☒	No ☐	Type: ☐

Temperature Blank Present? Yes ☐ No ☐
Sample Container Temperature: 1 °C

Comments/ Sampling Handling Notes:

***Environmental
Document Review***



MALAMA Environmental

November 16, 2011

Blanca Lafolette
CMBY 2011 Investments, LLC
P.O. Box 220
Kīhei, Hawaii 96753

Subject: Environmental Document Review – Site Investigation Report by ETC, LLC October 2011 &
Draft Limited Phase II Environmental Site Assessment by ETC, LLC October 2011
86 acres off Mokulele Highway and South Firebreak Road – TMK (2) 3-8-008:19

Dear Ms. Lafolette:

Malama Environmental (MEV) was commissioned by CMBY 2011 Investments, LLC in December 2010 to conduct project monitoring and review of environmental documentation by the property owner's environmental consulting agency, EnviroServices & Training Center, LLC (ETC). MEV's scope of work consisted of the following:

- Review of environmental documents compiled by ETC, including field work plans, sampling plans, Site Investigation Report and limited Phase II Report by ETC;
- Review of field sample procedures by ETC;
- Conduct field sampling monitoring of ETC personnel;
- Review of sample preparations and chain of custody for the chosen laboratory;
- Review of the laboratory qualifications, analytical methods chosen, and quality assurance/quality controls;
- Review of conclusions by ETC.

MEV on behalf of CMBY 2011 Investments, LLC, hereby submits this Environmental Document Review for the report and site referenced above. The data obtained during the recent site investigation was used by ETC to determine whether additional surface and/or subsurface soil investigation or remediation actions were necessary based on laboratory results from sampling conducted on contaminants of potential concern (COPC) previously identified on the subject property. It should be noted that the *Site Investigation Report*, October 2011 addresses many of the environmental contaminants of potential concern (COPC) on the subject site that were identified during initial site investigations. Most of these have already been commented on by MEV.

This environmental document review of the *Site Investigation Report* specifically addresses the subsequent surface soil sampling of DU11 and the review of the *Limited Phase II ESA* addresses the field monitoring of the surface and subsurface sampling conducted at the former gunnery along the southern property boundary of Parcel 19.

Background

Historically, the site was originally used as a military installation beginning in the 1940s to support the nearby Puunene Naval Air Station. Military operations likely ceased in the late 1940s, and thereafter the subject site was used for sugarcane cultivation and as a plantation camp. The property owner, Alexander and Baldwin, Inc. (A&B), leased the site to a farmer who operated a pig farm beginning in the 1960s. A new tenant, Mr. Larry Poffenroth took over piggy operations in 1995. Mr. Poffenroth began an unpermitted solid waste management facility. The property owner removed the tenant from the subject site in 2007-2008 and began

solid waste cleanup activities for eventual sale of the property. This activity was complete by March 2011, however based on the former property usage; several specific potential sources of contamination were identified during previous site inspections.

Former Solid Waste Operations Site

ETC's *Site Investigation Work Plan*, February 2011 proposed surface soil sampling from eleven (11) decision units (DUs) in select areas on the property where the unpermitted solid waste facility actions occurred. According to laboratory results, it was determined that the initial sampling showed indicated that elevated levels of totally petroleum hydrocarbons as oil (TPH-O) for DU6 and DU12. Although the levels exceeded the Hawaii Department of Health (DOH) Environmental Action Levels (EALs) for unrestricted land use, they are within range for commercial/industrial land use. The new property owner, CMBY intends to use the property for commercial and industrial purposes.

In addition to the findings noted above, analytical results indicated that soil collected from DU11 contained slightly elevated levels of total lead concentration for commercial/industrial land use. Based on this finding, ETC proposed additional sampling and subdivision of DU11 to further characterize the contamination. MEV reviewed and agreed with the proposed sampling plan for this, and the work was conducted in August 2011.

Former Military Gunnery Site

The Phase I Environmental Site Assessment, March 2011 prepared for the subject site identified a recognized environmental condition as a potential presence of residual contamination associated with historic usage of the southernmost portion of the subject site as a machine gun range. The former gunnery was noted on maps of the Puunene Naval Air Station and in historical aerial photos. Although the approximate location of the gunnery is known, it was unclear as to whether this facility was actually located within the property boundary. The COPC for military machine gun range is total lead concentration from spent metal bullets. MEV's concern included the possibility of on-site soil fill material from adjacent property where the gunnery was located, causing that to be a source for stormwater migration of lead or perhaps a source of transported fill for level grading the parcel boundary area.

Due to the close proximity of the former gunnery to the southern property boundary, the property owner opted to conduct a limited Phase II site investigation for potential surface and subsurface lead contamination. It was determined in the ETC sampling plan that 50 multi-incremental sampling (MIS) surface samples would be collected from a single DU along the perimeter of the southern boundary from the top 6-inches of the soil. It was also concluded that 10 subsurface soil samples would be collected by a direct-push drill rig at a depth of 4-10 feet. This sampling was conducted by ETC under the observation of MEV in August 2011.

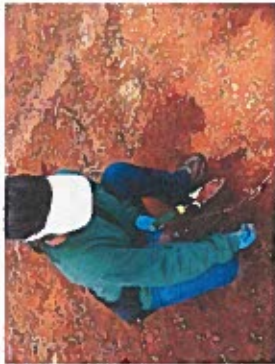
Field Investigation

On August 30th, 2011, MEV personnel Mr. John Vuich and Ms. Amy Mathis monitored the surface sampling for total lead concentration on the subdivided DU11 and the surface and subsurface sampling for total lead concentration at the former gunnery site. This allowed for MEV to witness the sampling process, photo document the event and interview ETC field technicians.

Additional Investigation of DU11

ETC subdivided DU11 into eight separate DUs (DU14 through DU 23) with the use of a GPS unit. The boundaries of the new DUs were flagged and marked. ETC collected 50 MIS from a depth of 4-6 inches below the surface with pre-cleaned hand trowels from each new DU. ETC also collected

two field replicate MIS from one of the eight DU1s for use as a batch quality control. MEV confirms that the samples were collected in an appropriate manner according to *Interim Final Technical Guidance Manual for the Implementation of the Hawaii State Contingency Plan (TGM)* and the DOH's Summer 2008 (Updated March 2009) *Evaluation of Environmental Hazards at Sites with Contaminated Soil and Groundwater*, referred to as the EHE Document. The samples were delivered to TestAmerica – Honolulu with completed chain of custody forms. The lab was instructed to conduct analysis for total lead via EPA Method 6010. MEV concludes that the field sampling conducted by ETC was done according to protocol.



ETC personnel conducting surface sampling for total lead concentration at the subdivided DU11.

The laboratory results for the subdivided DU11 are shown below:

Sample ID	Lead
2048.DU14	37
2048.DU15	17
2048.DU16	30
2048.DU17	84
2048.DU18	23
2048.DU19	13
2048.DU20	12
2048.DU21	13
2048.DU22	36
2048.DU23	34
Mean	27.67
Standard Deviation	12.74
Relative Standard Deviation	46.05%
DOH EAL	200 (800 ^{CT})

All results presented in mg/kg.
DOH EAL = March 2009 Definitive DOH EAL for soil in areas where drinking water sources are not threatened and the nearest surface water body is less than 150-meters from the site.
CT = Definitive DOH EAL for Lead of 800 mg/kg pertaining to direct exposure concerns associated with Commercial/Industrial Lead Use.

According to the laboratory results from the additional total lead concentration investigation of DU11, it was determined that the average total lead concentration for all subdivided DU1s were well below the EALs of 200 milligrams/kilograms (mg/kg) for unrestricted land use within the EHE manual requirement to sample the particle fraction that is less than 2 millimeters. This fraction of the soil is considered to be the dust and silt portion most available for uptake by human beings. ETC concluded that the previous elevated lead results were due to discrete pieces of lead within the soil from former solid waste storage activities. ETC stated that the initial results for DU11 may not necessarily reflect the average lead concentrations that are likely to be encountered throughout DU11. In addition, given the future commercial/industrial land use of the Property coupled with the results of the additional sampling activities, potential plant uptake is not considered a concern. Therefore, based on the data, lead within the soil fraction less than 2 millimeters in size was removed from consideration as a contaminant of concern for the Property. Furthermore, ETC concluded that based on review of the data obtained from the site investigation and comparison of COPC concentrations to applicable DOH EALs, there appear to be no retained environmental hazards for the site. As such, no further action appears necessary to address concerns associated with the former solid waste operations on the Property. MEV concurs with this concluding statement for the particle fraction of the soil that is less than 2 millimeters.

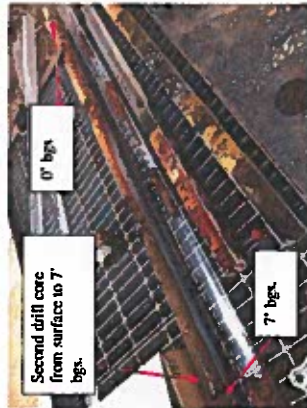
Former Military Guntery

The secondary portion of the sampling conducted by ETC consisted of the surface and subsurface soil sampling for lead at the former military guntery located along the southern property boundary. On August 30th, 2011, ETC collected one multi-increment surface soil sample in triplicate; and twenty-one discrete subsurface soil samples from ten boring locations. (One primary multi-increment sample for laboratory analysis and the two field replicate multi-increment samples were collected for quality control purposes.) Due to the size of the single DU, ETC opted to collect one hundred (100) multi-increment surface soil samples in a stratified, random manner (i.e., collect incremental samples from random locations, ensuring that each portion of the decision unit is represented) within the defined approximate 30 foot wide decision unit located along the south border of the property. MEV confirms that this method follows the DOH TGM and the EHE Document.

Collection of subsurface soil samples was performed using a Geoprobe 66DT system operated by GeoTek Hawaii, Inc. The Geoprobe 66DT is a track mounted, soil probing (i.e. direct push) machine that uses a small amount of static weight combined with percussion as the energy for the advancement of the push rod. According to A&B, approximately 10 feet of fill material was placed on the property several decades ago for agricultural use. It was decided to use a track drill rig using the direct push method with a macro-core to collect bore soil samples from the surface to about 10 feet in an attempt to discern fill and native soil. MEV was present for several of the initial boreholes. The first bore hole was taken from surface to 7 feet. The drill rig was operated by geologist and owner of ETC. Upon inspection it was obvious that several soil horizons were present. Both of these drill cores were taken on the dirt road adjacent to the ditch at the SE corner of the property.



ETC personnel beginning the subsurface sample collection with the track drill rig



Example of drill core subsurface soil material from the surface in 7 feet below ground surface (bgs)

Upon inspection, it appeared that the fill material lies in the top 2-4 feet of the soil horizon. The parent material is likely basalt with a red clay that formed above it. The red clay is likely the zone of accumulation for oxides. Above this is the yellow/tan silt which appears to be more leached of nutrients. It is evident from examining the first two core samples that the soil horizons change from the first drill sample to the second one. Maybe this occurs due to the samples being taken so close to a drainage area and historic fluctuations in water content have caused localized shifts in horizons. It may also be from historic soil horizon disruptions due to ground tilling for agricultural purposes. It was due to soil horizon fluctuations and varying changes in soil consistency, texture and structure throughout the studied depth of 0-10 feet bgs, that induced ETC to collect samples from varying depths throughout the DU. It was expected by following these horizon changes, ETC could more fully characterize the soil at this location.

The laboratory results for the former gunnery are shown below:

Table 1: Analytical Data – Multi-Incremental Surface Soil Samples

Sample ID	2048.SS1	2048.SS2	2048.SS3	DOH EAL
Total Lead (mg/kg)	< 9.9	< 10	< 10	200 (800 ^{CI})
Arsenic Total Lead		8.75		
Standard Deviation		0.068		
Relative Standard Deviation		0.78%		

Notes: ^{CI} = Not detected above method detection limit (MDL); MDL used.
DOH EAL = Default DOH Environmental Action Level for unrestricted land use.
CI = Default DOH EAL pertaining to Commercial/Industrial Land Use.
For Lead, the DOH EAL of 800 mg/kg pertains to direct exposure concerns.

Table 2: Analytical Data – Discrete Subsurface Soil Samples

Sample ID	Sample Depth (ft)	Total Lead
2048.B1.60	4.5 - 5.0	< 10
2048.B1a.108	8.5 - 9.0	< 9.9
2048.B2.60	4.5 - 5.0	< 10
2048.B2.90	7.0 - 7.5	< 9.9
2048.B3.48	3.5 - 4.0	< 9.9
2048.B3.120	9.5 - 10	< 9.9
2048.B4.36	2.5 - 3.0	< 10
2048.B4.60	4.5 - 5.0	< 9.9
2048.B4.84	6.5 - 7.0	< 9.9
2048.B5.60	4.5 - 5.0	4.4
2048.B5.102	8.0 - 8.5	< 9.9
2048.B6.60	4.5 - 5.0	< 9.9
2048.B6.96	7.5 - 8.0	< 9.9
2048.B7.48	3.5 - 4.0	< 10
2048.B7.84	6.5 - 7.0	4.6
2048.B8.48	3.5 - 4.0	< 10
2048.B8.96	7.5 - 8.0	< 9.9
2048.B9.60	4.5 - 5.0	< 9.9
2048.B9.108	8.5 - 9.0	< 10
2048.B10.48	3.5 - 4.0	< 10
2048.B10.84	6.5 - 7.0	< 10
DOH EAL		200 (800 ^{CI})

Notes: ^{CI} = Not detected above method detection limit (MDL); MDL used.
DOH EAL = Default DOH Environmental Action Level for unrestricted land use.
CI = Default DOH EAL pertaining to Commercial/Industrial Land Use.
For Lead, the DOH EAL of 800 mg/kg pertains to direct exposure concerns.

Total lead concentrations were determined to be either below the laboratory reporting limit and/or below the default DOH EAL for unrestricted land use. Based on these findings, ETC concluded that no further action would apply to the southernmost portion of the project site in regards to the

potential, small-fraction lead impacts associated with the former "machine gun range." MEV felt that the work conducted by ETC was done according to protocol and in a professional and knowledgeable manner and agrees with this statement.

Conclusions

The document *Site Investigation Report*, Former Puunene Piggy, by ETC October 2011 will be submitted to the DOH requesting a "no further action" statement and final closure for this project from the State Department of Health's Solid and Hazardous Waste Branch (SHWB). Based on MEV's site reconnaissance and review of ETC documentation, the former unpermitted solid waste requires no further sampling or environmental investigation for industrial/commercial land use. MEV concurs with this conclusion.

The *Draft Phase II Limited Environmental Site Assessment* at the former gunnery will not be submitted to the DOH. This investigation was meant to satisfy the former property owner, A & B, that no contamination was present along the southern boundary of the subject site. It was conducted as a Phase II Environmental Site investigation for property transaction to assess whether the property had been impacted by the former military gunnery and was considered a recognized environmental condition. It should be noted that if the surface and subsurface soil samples in the location of the former gunnery were determined to be lead contaminated, ETC would have been instructed to involve the Hazard Evaluation and Emergency Response (HEER) Office with the DOH and coordinate further investigation and remediation in order to request a "no further action" from them.

It is evident that the former machine gunnery has not caused any adverse environmental impacts to the subject site within the recommended soil fraction size of less than 2 millimeters and requires no further action or submission to the DOH.

Respectfully yours,

Amy H. Mathis, B.S. Geology,

Project Coordinator

> Environmental Scientist

Date 11/16/11

John S. Yulch, M.S. Geological Engineering,

Project Supervisor

> Registered Environmental Assessor

> Registration No. 1433 (State of California)

> Professional Geologist (California)

> Certified Environmental Manager (Nevada)

Date 11/16/11

***Dept. of Health
“No Further
Action” Letter***



STATE OF HAWAII
DEPARTMENT OF HEALTH
ENVIRONMENTAL MANAGEMENT DIVISION
SOLID AND HAZARDOUS WASTE BRANCH
119 ALA MOANA BOULEVARD, 712
HONOLULU, HAWAII 96814

LORNETTA J. FIDDOY, A.C.S.W., M.P.H.
DIRECTOR OF HEALTH

In reply, please refer to:
EANDSWG

January 9, 2012

S0105TN

Mr. Sean O'Keefe
A&B Properties, Inc.
P.O. Box 266
Puuuene, Hawaii 96784

Dear Mr. O'Keefe:

SUBJECT: No Further Action, Former Puuene Piggery
TMK 2-3-8-8:19
Puuene, Maui

The Department of Health (DOH), Solid Waste Section (SWS) is in receipt of your email dated December 22, 2011, informing us that our No Further Action letter dated December 14, 2011, contained an error in the TMK number. Therefore, the SWS is issuing this letter which contains the correct TMK number.

The SWS is in receipt of the October 2011, *Site Investigation Report for the Former Puuene Piggery*, as well as the June 27, 2011, report documenting the removal of solid waste from the subject site. In addition, the DOH inspected the site on July 8, 2011, and noted a minimal amount of visible solid waste. It is our understanding that use of the property will be limited to commercial/industrial land use and that soil will not be removed from the property.

The SWS concurs with your consultant's conclusion that the TPH-O level (730 mg/kg) in DU6 does not appear to be a significant concern due to the biodegradability of TPH-O, the non-potable use of the groundwater beneath the property, and the greater than one hundred (100) foot depth to groundwater.

Based on the information provided, our inspection, and our aforementioned understanding, it appears that you have completed the removal of solid waste from the subject site and have adequately addressed impacts from solid waste activities that occurred at the site. Therefore, the SWS is requiring no further action regarding the

Mr. Sean O'Keefe
January 9, 2012
Page 2

former solid waste activities that occurred at the subject site at this time. However, should additional information become available, additional activities may be necessary.

Should you have any questions regarding this letter, please call Mr. Todd Nichols of our Solid Waste Section at (808) 586-4226.

Sincerely,

STEVEN Y.K. CHANG, P.E., CHIEF
Solid and Hazardous Waste Branch