



## Combined Phase I & II Environmental Site Assessment

O'okala Gym and Ball Park  
O'okala, Hawaii

September 2008

Prepared for:  
Department of Environmental Management  
County of Hawaii

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EPA Brownfields Site Assessment  
Combined Phase I & II  
Environmental Site Assessment

*Former O'okala Gym and Ball Park  
39-3200 Niu Village Road,  
O'okala, Hawaii 96774*

TMK: 3-9-001:011

September 2008

Project Number 0050398

Prepared For:

The County of Hawaii  
Department of Environmental  
Management

**Environmental Resources Management**  
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Honolulu, Hawaii 96813  
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## *LIST OF ACRONYMS*

ACM	Asbestos Containing Material
AST	Aboveground Storage Tank
ASTM	American Society for Testing and Materials
bgs	below ground surface
CERCLA	Comprehensive Environment Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
CLP	Contract Laboratory Program
COC	Chain of Custody
DLNR	Department of Land and Natural Resources
DRO	Diesel Range Organic
DU	Decision Unit
EALs	Environmental Action Levels
EDR	Environmental Data Resources
EIS	Environmental Impact Study
EPA	Environmental Protection Agency
EPCRA	Emergency Planning and Community Right to Know Act
ER	Equipment Rinsate
ERM	Environmental Resources Management
ESA	Environmental Site Assessment
ft	feet
GIS	Geographical Information System
GRO	Gasoline Range Organic
HDAA	Hamakua Diversified Agricultural Association
HDOH	Hawaii Department of Health
HEER	Hazard Evaluation and Emergency Response
HELCO	Hawaii Electric Light Company
LQG	Large Quantity Generator
LUST	Leaking Underground Storage Tank
mg/kg	milligram per kilogram
mg/L	milligram per Liter

m	meter
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NIST	National Institute of Standards and Technology
ND	Non-Detect
OSHA	Occupational Safety and Health Administration
PACM	Possible Asbestos Containing Material
PCB	Polychlorinated Biphenyl
pCi/L	Picocuries per Liter
ppm	part per million
PRGs	Preliminary Remediation Goals
QA/QC	Quality Assurance/Quality Control
RCRA	Resource Conservation and Recovery Act
REC	Recognized Environmental Condition
RPD	Relative Percent Difference
RRO	Residual Range Organic
SAP	Sampling Analytical Plan
SARA	Superfund Amendments and Reauthorization Act
SI	Site Investigation
SPCC	Spill Prevention Control and Countermeasures
SQG	Small Quantity Generator
SVOCs	Semi-Volatile Organic Compounds
SW	Solid Waste
TAL	Test America Laboratory
TAT	Turn Around Time
TCLP	Toxicity Characteristic Leaching Procedure
TMK	Tax Map Key
TPH	Total Petroleum Hydrocarbons
USEPA	United States Environmental Protection Agency
USGS	United State Geological Survey
UST	Underground Storage Tank
XRF	X-ray Fluorescence

## EXECUTIVE SUMMARY

Environmental Resources Management (ERM) conducted a combined Phase I and II Environmental Site Assessment (ESA) of the former O'okala Gym and Ball Park located at 39-3200 Niu Village Road in O'okala on the Island of Hawaii. The Phase I ESA was conducted in compliance with the scope and limitations of ASTM Standard E 1527-05 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process. The Site investigation, Phase II ESA, was done according to the EPA approved Sampling and Analysis Plan (SAP) for the Site dated 17 December 2007 (ERM 2007).

A site visit was conducted on May 8, 2007 by Mr. Achie Reyes and Ms. Ashley Kerr of ERM, together with Mr. Antonio Gomera who worked for the O'okala Sugar Mill (Hamakua Sugar Company) from 1964 until the mill stop operation in the mid 1980's. The property is now owned by the County of Hawaii under the jurisdiction of the Department of Parks and Recreation. The subject property is surrounded by residential houses but zoned for agricultural use. The entire Site is approximately 798,411 square feet, encompassing a former gymnasium with two annexes, a Ball Park located to the east of the Gym, an open area to the south of the Gym, and a vegetated area to the northeast of the Ball Park. The vegetated area to the northeast of the Ball Park was littered with discarded debris including abandoned vehicles, old appliances, and empty drums.

The former gym and annex were constructed in 1941 and have fallen into disrepair. Many of the windows are broken and parts of the walls have fallen down. Scattered litter was found around the Gym and annex buildings. The interior and exterior paint on the gym and annex is chipping and peeling off. According to Mr. Gomera, the Gym and annexes has never been repainted since it was erected in 1941. All of the paint used was believed to contain lead. The Gym and annex have been abandoned since 1987, following the closure of the Hamakua Sugar Company.

Based on the data obtained during the site visit, the environmental database review, interviews with persons familiar with the Site and its history, and the focused Site Investigation, the following environmental conditions were identified at the Site:

### *Recognized Environmental Conditions*

A Recognized Environmental Condition (REC), as defined in ASTM E 1527-05, is "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 hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property, excluding de minimis conditions."

- Lead was detected in the surface soils around the perimeter of the Gym and the annex buildings, but at an average concentration below residential screening levels. XRF screening of individual grab samples indicated that higher lead levels were randomly spatially distributed.
- Gasoline-range petroleum hydrocarbons were identified in surface soils from the northeast portion of the subject property (DU-04) at a concentration of 149 mg/kg, above the Hawaii screening level of 100 mg/kg.

### *De Minimis or Other Potential Issues*

- Empty hydraulic fluid drums and an array of abandoned vehicles were found on the subject property in a highly vegetated area located northeast of the ball park.

ERM recommends further investigation of the debris dump area in the northeast corner of the subject property to determine the source of the petroleum hydrocarbon detected in soils. Lead-impacted soil surrounding the former O'okala Gym and annex do not require remediation based on an average concentration below screening levels. However, the lead-based paint on the exterior and interior walls of the Gym, suspected to be the source of soil lead contamination, should be abated prior to future use of the facility.

## 1.0 INTRODUCTION AND BACKGROUND

### 1.1 PURPOSE AND AUDITORS

ERM, in collaboration with the County of Hawaii Department of Environmental Management, completed a Phase I ESA and Phase II Site Investigation (SI) of the O'okala Ball Park and Gym, with address at 39-3200 Niu Village Road , O'okala, Hawaii (the "subject property"). The combined Phase I and II ESA was performed as part of the EPA Brownfields Assessment Program for the County of Hawaii and in anticipation of a long-term leasing transaction for the property involving the Hamakua Diversified Agricultural Association (HDAA) and the County of Hawaii Department of Parks and Recreations.

The site visit was performed on 8 May 2007 by Achie Reyes and Ashley Kerr of ERM in Honolulu. ERM was accompanied on the site visit by Mr. Antonio Gomera, a resident of the area who formerly worked for the Hamakua Sugar Company from 1964 until 1987. The field sampling/site investigation was conducted on 21 February 2008.

### 1.2 SCOPE OF WORK

The Phase I ESA was conducted in conformance with the requirements of American Society for Testing and Materials (ASTM) Standard E 1527-05; Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process and the standards for conducting all appropriate inquiries set forth by the United States Environmental Protection Agency (USEPA) at 40 Code of Federal Regulations (CFR) Part 312.

The Phase I ESA was conducted to evaluate and identify conditions indicative of releases and threatened releases of hazardous substances and petroleum products on, at, in or to the subject property. ERM's Phase I ESA sought to gather information regarding: (1) current and past property users and occupancies; (2) current and past users of hazardous substances and petroleum products; (3) waste management and disposal activities that could have caused a release or threatened release of hazardous substances; (4) current and past corrective actions and response activities

to address past and on-going releases of hazardous substances at the subject property; (5) engineering controls at the subject property; (6) institutional controls at the subject property; and (7) properties adjoining or located near the subject property that have environmental conditions that could have resulted in conditions indicative of releases or threatened releases of hazardous substances to the subject property.

Phase I ESA included:

- An on-site inspection of the subject property to evaluate current conditions and identify areas of potential concern;
- A review of property history through interviews and aerial photographs, city directories, ownership records, and historical mapping;
- A review of previous environmental studies conducted at the Site and adjacent properties;
- Observation of adjacent properties and the local area to evaluate the potential for adverse environmental impact to the subject property;
- Interviews/research of local city/county, tribal, state, and federal records, including contracting of Environmental Data Resources, Inc. (EDR) to identify sites of concern as required in the regulatory records review section of the ASTM standards for a Phase I ESA, where available; and
- Interviews with the prospective lessee or tenant.

Phase II ESA (Site Investigation) included:

- Development of a Sampling Analytical Plan (SAP);
- Field screening of soils for arsenic and lead using a handheld X-Ray Fluorescence (XRF) meter;
- Surface soil sampling to determine the level of lead and other potential contaminants in the area surrounding the Ookala Gym and Ball Park; and
- Preparation of a final Site Characterization report.

Photographs of the Site and surrounding areas were taken to document current conditions and are included in Appendix A. The EDR Database Search Results for the subject property can be found in Appendix B.

Property environmental records or permits, reasonably obtainable at the time of the site visit, were reviewed and copies are included in this report, as appropriate in Appendix C. Copies of questionnaires completed by the key Site manager and property owner are also presented in Appendix C. Copies of Sanborn fire insurance maps, topographic maps, and government records, are presented in Appendix D. The Analytical Laboratory Report can be found as Appendix E and the Data Validation Report is presented in Appendix F. Appendix G contains Professional Profiles for ERM employees.

1.3 *LIMITING AND SPECIAL CONDITIONS*

1.3.1 *Limiting Conditions during the Site Visit*

The weather during the site visit was partly sunny and the temperature approximately 85°F. There were no limiting conditions were encountered during the site visit.

1.3.2 *Significant Assumptions*

There were no significant assumptions made about the subject property.

## 2.0 *SITE SETTING*

### 2.1 *LOCATION*

The O'okala Ball Park and Gym are located on the southern side of Niu Village Road, in the town of O'okala, Hawaii with Tax Map Key (TMK) 3-009-001:011. The Site is located less than  $\frac{3}{4}$ -mile south of the old O'okala Sugar Mill and the former O'okala Elementary School. The Laupahoehoe Elementary School and High School, approximately  $4\frac{3}{4}$  miles southeast of the subject property is the closest school in the area. The general location of the property and the physiographic features of the surrounding area are shown on Figure 1, developed from the United States Geological Survey (USGS) 250K quadrangle for O'okala, Hawaii, dated 2005.

### 2.2 *NEIGHBORING PROPERTIES*

The subject property is located in an agricultural zone of O'okala. Land use in the area of the subject property includes residential housing, with the closest industrial area being that of the former O'okala sugar mill, approximately  $\frac{3}{4}$  mile away to the north:

- North: the subject property is bounded by a private road on the northwest. Across the private road are residential houses. Further northwest is the Old Mamalahoa Highway and the former O'okala sugar mill.
- South: the subject property is bounded to the south and southwest by the Hawaii Belt Road.
- East: to the east of the subject property are former sugarcane field that remains undeveloped and the Pacific Ocean.
- West: the subject property is bound by the Hawaii Belt Road and the Old Mamalahoa Highway to the west.

Visual evidence of environmental concerns were not observed at any of the immediately surrounding properties. A TMK site map of the surrounding property is provided as Figure 2.

### 2.3 TOPOGRAPHY AND HYDROLOGY

The property is located at an elevation of approximately average elevation of 376 feet above mean sea level and is generally flat. The overall topographic trend of the surrounding area is sloping from the southwest toward the northeast and the Pacific Ocean. Less than ¼ mile east of the Site is a 350 foot cliff at the Pacific Ocean. A 2006 aerial photo of the Site and surrounding area is shown as Figure 3. The Site is outside the 100 or 500-year flood plain and the tsunami evacuation area.

### 2.4 GEOLOGY AND HYDROGEOLOGY

Geologically, the subject property is located on young igneous rock. Volcanism formed the the Hawaiian Islands, with land still growing on the Island of Hawaii due to its active volcano, Kilauea. Therefore, the bedrock, which is found between 40 and 60 inches below the ground's surface (bgs), is that of Hamakau formation basalt. Soil found at the subject property is that of the Oloa and Ookala series. It is characterized as silty clay loam, being well drained with high infiltration rates and having a high corrosion potential. The upper layer of soil, found from the surface to approximately eight inches bgs, is silty clay loam, being composed mostly of silt-clay materials, with permeability rates between six and twenty inches per hour. The second layer is found from between eight to twenty-five inches bgs and is a very stony silty clay loam with permeability rates between six and twenty inches per hour. The lower layer is found from between twenty-five to thirty-five inches bgs and is textured more as fragmented material. This soil is gravelly, being very coarse -grained and consisting of stone fragments, gravel and sand. The permeability of this lower layer is twenty inches per hour.

The aquifers beneath the subject property are in the East Mauna Kea Aquifer Sector and are part of the Paauilo Aquifer System (Mink and Lau, 13-14). Pahala ash covers portions of the aquifer system, and sediments are unimportant when dealing with this system due to the basal aquifer being the prime source for water. The groundwater in the basal aquifer is found several hundred feet bgs.

Groundwater flow in the area is to the north, following the topography towards the Pacific Ocean. However, groundwater flow directions can be highly variable, and no definite statement can be made regarding

groundwater flow direction in the absence of accurate water level measurements from groundwater wells.

There are six water wells found within a one mile radius of the subject property. One well is found less than  $\frac{1}{4}$  mile northwest of the subject property. Five wells are located to the west between  $\frac{1}{2}$  to 1 mile from the subject property. As the topography in the area slopes downward in the northeastern direction toward the Pacific Ocean, the subject property does not have the potential to contaminate any of the existing well based on the possible direction of groundwater flow.

Average annual rainfall in the area varies from 90 inches at the coast to 160 inches inland. Based on topography and with no storm drains present in the area, the overland run-off from the subject property flows northeast towards the Pacific Ocean.

3.0 *SITE AND OPERATIONS INFORMATION*

3.1 *GENERAL SITE DESCRIPTION*

According to information contained on the County GIS website, the subject property contains approximately 18.4 acres parcel of land. The TMK for the parcel is 3-9-001:011. The subject property has a Latitude (North) of 19 degrees 0' and 36" and a Longitude (West) of 155 degrees 16' and 20".

The property is now owned by the County of Hawaii and zoned for agricultural use. The entire subject property is approximately 798,000 square feet, encompassing a gym and annex, an open area to the south of the building, a Ball Park and a vegetated area to the northeast of the Ball Park, where abandoned vehicles and empty drums were observed.

The gym and annex were constructed in 1941 and have fallen into disrepair. Many of the windows are broken and parts of the interior walls are missing. Scattered litter was found around the gym and annex building.

The external paint on the gym and annex is chipping and peeling off, and has not been maintained since it was originally painted (at the time it was erected). The gym and annex have been abandoned since 1987, following the closure of the Hamakua Sugar Company.

3.2 *UTILITIES*

The property formerly used three underground cesspool sewer systems. Two were located on the eastern side of the annex and gym building, one in front of the northern annex, approximately 43 feet from the building, and the other approximately 34 feet in front of the gym. Both of these cesspools have been closed and filled with cement. A third cesspool is located underneath the southern annex of the building structure. Currently, no water and electricity is available for the facility.

3.3 **PROCESSES AND MATERIAL USE**

3.3.1 ***Current Operations***

There are no current operations at the Site.

3.3.2 ***Discontinued Operations***

The subject property was formerly used as a recreation center for plantation workers, beginning in 1941. The annexes also provided housing for a small number of workers. By 1987, the property had been vacated and ownership was transferred to the County of Hawaii.

3.4 **CHEMICAL USE AND STORAGE**

There was no indication of chemical use or storage at the Site.

3.4.1 ***Underground Storage Tanks (USTs)***

There are no USTs on the subject property.

3.4.2 ***Aboveground Tanks (ASTs)***

There was no ASTs observed at the subject property at the time of the site visit.

3.5 **HAZARDOUS AND NON-HAZARDOUS WASTE MANAGEMENT**

3.5.1 ***Hazardous Waste***

No hazardous waste is generated at the subject property. The EDR Report identified the former O'okala Sugar Mill as a RCRA Small Quantity Generator in the area.

3.5.2 ***Non-Hazardous Waste***

Possible illegal dumping was observed on the northeastern corner of the property.

### 3.6 WATER, WASTEWATER AND STORMWATER

#### 3.6.1 Water

The facility was formerly connected to the plantation's water system.

#### 3.6.2 Wastewater

The former O'okala Gym and annexes generated sanitary wastewaters that were discharged to a cesspool located on the southern part of the property. There were formerly two other cesspools on the property that have been filled in with concrete. The remaining cesspool was installed in 1972.

#### 3.6.3 Stormwater

Stormwater runoff from the property flows northeast towards the Pacific Ocean. There were no storm drains at the Site. Much of the area is unpaved and has a high drainage capacity.

### 3.7 RADON AND AIR EMISSIONS

ERM did not observe any obvious sources of regulated air emissions. No indications of potential impact to the property related to air emissions were noted by ERM during the site visit. According to the EPA database, the amount of radon in Hawaii is of low potential with less than 2 pCi/L. No radon gas sampling was conducted for this study.

### 3.8 POLYCHLORINATED BIPHENYLS (PCBS)

ERM inspected the property for types of equipment that have been historically associated with the use of PCBs as a dielectric fluid coolant and stabilizer. This includes post-mounted and pad-mounted electrical transformers. ERM observed one post-mounted electrical transformer located along the southwest tip of the property along the Hawaii Belt Road. The transformer is owned by HELCO and looked fairly new. No leakage or spillage was noted surrounding the electrical post.

With the exception of light ballasts, no other electrical equipment that may contain PCBs was observed at the subject property.

3.9 *VISUAL INDICATIONS OF ON-SITE IMPACTS*

Indications of on-site impacts noted during ERM's site visit include some areas of stressed vegetation in the proximity of the abandoned vehicles and empty drums on the northeastern edge of the property.

3.10 *ASBESTOS-CONTAINING MATERIALS*

Asbestos was banned in most friable building materials (sprayed applied surfacing materials and thermal system insulation) in 1978. The Occupational Safety and Health Administration (OSHA) assumes that sprayed surfacing materials, thermal system insulation materials, and vinyl flooring materials as "presumed asbestos-containing materials" (PACMs) if they are present in pre-1981 buildings (Title 29 of the Code of Federal Regulations, Parts 1910.1001 and 1926.1101). The O'okala gym and annex were constructed in 1941. As a result, PACMs could have been used in building construction and other ACMs could also be present at the facility.

Asbestos testing at the O'okala Gym and annex was performed in 2001 by Myounghee Noh and Associates, LLC. Four wallboard bulk samples and four floor tile samples taken from various places in the building. No asbestos was detected in any of the bulk sample collected. A copy of the Asbestos and Lead Survey Report are included in Appendix C of this report.

3.11 *OTHER PHYSICAL EVIDENCE OF CONTAMINATION*

No unusual odors, runoff patterns, or berms were observed at the Site during the site visit.

#### 4.0 *ASSESSMENT OF PAST LAND USE AND OPERATIONS*

##### 4.1 *GENERAL INFORMATION*

ERM contracted with Environmental Data Resources, Inc., (EDR) to obtain historical Sanborn fire insurance maps for the subject property. Sanborn maps contain information regarding past land use in and around the subject property. EDR was unable to identify any Sanborn maps associated with the subject property.

Based on interviews with Mr. Gomera and a review of decade topographic maps and records, the subject property was vacant before the construction of the gym and annexes in 1941. There were no significant changes at the subject property. The gym and annexes have been empty since 1987.

##### 4.2 *PREVIOUS ENVIRONMENTAL REPORTS*

An Environmental Impact Study (EIS) was conducted for the area of the O'okala Gym and Ball Park by Planning Consultant Brian T. Nishimura in July 2001. The EIS concluded that building renovation to convert the former gym and annexes into a community center will have no significant environmental impact to the subject property and the surrounding area.

An Asbestos and Lead survey was conducted in October of 2001 by Myounghee Noh and Associates, LLC. The survey concluded that no asbestos containing materials are present at the former Gym and annex. However, lead-based paint was detected in the interior and exterior paint of the buildings. High level of lead was also detected in the surface soil within the building perimeter. The EIS and the Asbestos/Lead survey report are included in Appendix C.

##### 4.3 *EVALUATION OF HISTORIC INFORMATION SOURCES*

To determine past activity at the subject property and surrounding properties, ERM reviewed historical sources of information as outlined below (Table 1). Copies of historical topographic maps are presented in Appendix D.

**Table 1**      *Summary of Historical Records Reviewed*

	Name/Years Reviewed	
Source of Information	Subject Property	Adjacent Properties
Interview(s) with land owner representative	Anthony Gomera, Area resident and former worker for the Hamakua Sugar Company  Valerie Pointdexter, Area expert and Project Manager for the O'okala Community Center	Anthony Gomera, Area resident and former worker for the Hamakua Sugar Company (O'okala Sugar Mill)  Robert La bre, Area resident
USGS Topographic Maps	1957, 1982, 1993	1957, 1982, 1993
Sanborn Fire Maps	None available	None available
Aerial Photographs	2006	2006

**4.3.1**      *Subject Property*

The O'okala <sup>16</sup>Bym, annexes and Ballpark were erected in 1941 for the use of the plantation community. Prior to this, the subject property was a vacant lot. No significant variation was noted in the 1957, 1982, and 1993 topographic maps. Notable changes however were noted at the site of the former O'okala Sugar Mill.

No evidence of any environmental concern on the subject property was noted from the historical sources reviewed.

**4.3.2**      *Adjacent Properties and Surrounding Area*

The development history of the surrounding properties is consistent with that of the subject property. No significant changes have been made in the immediate area of the subject property. The O'okala Sugar Mill stop operation in 1987, ending sugar production in the area and later sold as a veneer production mill. The veneer production mill have not started operation at the time of the site visit.

The historic sources reviewed by ERM did not provide evidence of environmental concerns on adjacent properties.

#### 4.3.3

#### *Non-Regulatory Interviews*

Information obtained from the current Site users and their representatives are discussed throughout this report. ERM's interview with Mr. Antonio Gomera, a former employee of the Hakalau Sugar Company and area resident, representative of the current leasee of the property, indicated that there were no hazardous materials used at the Site. Mr. Gomera was not aware of any USTs, hazardous waste, waste burial site, spills, or other environmental problems at the subject property.

## 5.0 *DATABASE AND GOVERNMENT RECORDS REVIEW*

### 5.1 *GOVERNMENT RECORDS REVIEW/INTERVIEWS*

ERM contacted the Hawaii Department of Health (HDOH) Office of Hazard Evaluation and Emergency Response (HEER), Clean Water Branch, Solid and Hazardous Waste Branch, and Safe Drinking Water Branch to confirm and/or expand on information obtained during records review. ERM submitted written information requests to other agencies in the County of Hawaii including the Fire Department through Mr. Darryl Oliveira (Fire Chief). All agencies confirm that they have no relevant information regarding the subject property.

A response letter from Mr. Milton Pavao , Manager of the Department of Water Supply, and Mr. Peter Boucher, Director of the County of Hawaii's Wastewater Division, indicated that no record of possible water contamination near or attributed to the subject property. A Freedom of Information Act Request was submitted to the U.S. Environmental Protection Agency (USEPA) on 02 April 2007. A response from the USEPA was received on 12 June 2007, stating that they have no records on file for the Site.

All information received have been noted and incorporated in this report. Copies of the responses from the different government agencies are included in Appendix D.

### 5.2 *ENVIRONMENTAL DATABASE SEARCH*

ERM contracted EDR to conduct a database search for the subject property. The database report, presented in Appendix B, defines and summarizes the ASTM databases reviewed in the EDR report and notes if any sites (including the subject property) were included in any federal or state priority list within 1.0 mile radius of the subject property. The locations of sites identified in the EDR report were evaluated to determine their potential impact to the subject property. Only those sites within the ASTM-specified distances are discussed below.

It should be noted that the computerized geocoding technology used in the database search is based on available census data and is only accurate to approximately  $\pm 300$  feet. The EDR report provides a list of unmapped sites for which inadequate location information was provided. ERM has reviewed the list of "unmapped" sites to determine if these sites are within the study radius. There is a total of 4 "Orphaned" sites that falls within the radius of the subject property, however, although recognized by ERM, not enough information was found to include them in this report.

Sites identified within the study radii were evaluated to determine if they are likely to have adversely impacted the subject property. The criteria used to evaluate the potential for adverse impact to the subject property include:

- distance from the subject property,
- expected depth and direction of groundwater and surface water flow,
- expected stormwater flow direction, and
- the presence/absence of documented contaminant releases at the identified sites that have not been remedied to the satisfaction of regulators.

The identification of a site as potentially upgradient or downgradient is based on the expected direction of groundwater flow.

#### 5.2.1 *Subject Property*

The subject property was not identified in any of the databases searched. The absence of the identification of the subject property indicates that there is no documented regulatory activity at the subject property for the databases searched.

#### 5.2.2 *Surrounding Properties*

The identification of a site as potentially upgradient or downgradient is based on the expected direction of groundwater flow. The following sections also discuss any findings from our agency responses to written requests. ERM has reviewed the findings reported in the EDR report to conclude that there were no sites identified to be mapped in the search radius.

The EDR report identified 4 listings of "orphaned" sites that are shown on databases but for which there are no available data. The listings involved are mostly sites that are registered locally due to an interest from the HDOH HEER Office regarding solid and hazardous waste. All of the "orphaned" sites are outside of the radius of the study area and therefore are considered significantly distant and do not present an environmental liability to the subject property. These orphaned sites are all located within the Old Mamalahoa Highway and include the O'okala Fuel Station, O'okala Radio Station, and the Hamakua Sugar Mill.

## 6.0

**DATA GAPS**

Table 2 summarizes the data gaps identified during the ESA. The significance of the data gaps with respect to the conclusions of this assessment is presented in Section 7.

**Table 2**      **Data Gap Summary**

Data Gap	Sources Consulted to Address Data Gap	Significance
Interviews with former operators of the Site were not conducted.	In lieu of the interviews and environmental questionnaire with the former operators of the Site, ERM completed an interview with Valerie Pointdexter who is the chairwoman of the HDAA and Mr. Anthony Gomera, who worked at the former O'okala Sugar Mill and serve as the custodian for the facility. Mr. Gomera filled out the environmental questionnaire as required by the All Appropriate Inquiry study.	Low
A Chain-of-Title was not provided for review by the client.	Tax records, historical topographic maps and aerial photos.	Low

Significance to identifying conditions indicative of releases or threatened releases to the subject property are rated from low to high.

## 7.0

### *USER PROVIDED INFORMATION*

ERM contacted James Komata with the Department of Parks and Recreation and Ms. Valerie Pointdexter of the HDAA with respect to the following information:

- An evaluation of the presence of Environmental Cleanup Liens for the subject property;
- Activity and Use Limitations such as engineering controls (e.g., slurry walls, caps) and land use restrictions or institutional controls (e.g., deed restrictions, covenants) that may be in place for the subject property;
- Specialized Knowledge that includes personal knowledge or experience related to the subject property or nearby properties based on professional experience or knowledge of the subject property;
- Fair Market Value to evaluate whether a purchase price is significantly below Fair Market Value;
- Obvious Indicators that involve past or present spills, stains, releases, cleanups on or near the subject property; and
- Common Knowledge about specific chemicals, possible contamination, or past use of the subject property and surrounding area.

Questionnaires for the Phase I ESA were completed by Antonio Gomera, who formerly worked at the O'okala Sugar Mill and serves as the custodian for the Site. Responses to the Questionnaires are addressed in the following sections. A copy of the Questionnaires are presented in Appendix C.

## 7.1

### *TITLE RECORDS*

Title records reports were not provided by Mr. Komata and obtaining title records was not included in the scope of work for this project. This has been identified as a data gap in Section 6.0 of this report.

7.2 *ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATIONS*

The user did not identify any environmental liens or use limitations currently recorded against the subject property.

7.3 *SPECIALIZED KNOWLEDGE*

The user has specialized knowledge regarding former and current activities associated with the subject property. This specialized knowledge was provided to ERM prior to the performance of the site visit and is presented throughout this report in the relevant report sections.

7.4 *COMMONLY KNOWN OR REASONABLY ASCERTAINABLE INFORMATION*

The user has access to commonly known and reasonably ascertainable information associated with the subject property. The information and documentation, including previous environmental investigations was provided to ERM prior to the performance of the Site visit and is presented throughout this report in the relevant report sections and appendices.

7.5 *VALUATION REDUCTION FOR ENVIRONMENTAL ISSUES*

The user has previously acquired the subject property. No evaluation of the purchase price or fair market value has been conducted.

7.6 *OWNER, PROPERTY MANAGER, AND OCCUPANT INFORMATION*

The Site is currently vacant and owned by the County of Hawaii under the jurisdiction of the Department of Parks and Recreation.

7.7 *REASON FOR PERFORMING PHASE I ESA*

This Phase I ESA has been performed to identify potential environmental liability issues of the subject property to the County of Hawaii in relation to its Brownfields Assessment Project being funded by the EPA.

7.8 *ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATIONS*

Ms. Valerie Pointdexter of the HDAA and Mr. James Komata of the County of Hawaii Department of Parks and Recreation, did not identify any environmental liens, land use restrictions or Activity and Use Limitations recorded against the Subject Property.

## 8.0 SITE INVESTIGATION

### 8.1 FIELD SAMPLING

ERM conducted a field sampling investigation on 21 February 2008 in accordance with the USEPA-approved *Revised Sampling and Analysis Plan* (SAP) dated 17 December 2007 (ERM 2007).

The former O'okala Gym and Ball Park was subdivided into four sub areas, called decision units (DUs), based on Site historical utilization and features (Figure 3). Surface soil sampling and XRF field screening were conducted based on the SAP. All surface soil samples were labeled prior to placing them in a sturdy plastic cooler with ice. At the end of the field sampling activity, all collected soil samples were individually wrapped with bubble sheet to prevent breakage during transport. All samples were checked in as ERM personnel baggage and were kept overnight with ice to maintain the appropriate holding temperature. The samples were delivered to Test America Laboratory (TAL) the following morning.

All sample analyses were performed within the TAL standard turn-around-time (TAT) of 10 working days. Photo documentation of the field sampling activities is included in Appendix A. In addition to the surface soil sampling, ERM conducted field screening of heavy metals in soil using an XRF handheld meter. Results of the field screening were compared to the laboratory analytical results.

#### 8.1.1 *Surface Soil Sampling and XRF Field Screening*

The SAP called for the collection of surface soil samples from the 4 DUs being investigated at the subject property as shown on Figure 3. DU01 is composed of the area surrounding the Gym and its annexes; DU02 is the open area southeast of the Gym; DU03 is the Ball Park; and DU04 is an open vegetated area north of the Ball Park.

In each DU, a representative surface soil sample was collected using a multi-incremental sampling procedure where at least 30 discrete grab samples were composited to form the multi-increment sample. For DU1, which contained the Gym and annex buildings, each of the 30 sample increments was evaluated for metals (lead and arsenic) using a portable

XRF instrument, prior to compositing the samples to form the DU1 multi-increment sample. In DU3, three separate multi-increment samples were collected (called DU03, DU05 and DU06) in order to determine sampling and analysis variability. The DU was subdivided into 30 sampling cells of approximately the same size, and the grab samples (sample increments) for each of the three replicates were collected from 3 random and different locations from each cell. All field measurement and observations were recorded in a field notebook.

### 8.1.2 *QA/QC Sampling and Procedure*

An equipment rinsate sample (ER-02) was collected prior to sampling of surface soil. It was prepared by pouring distilled water over the sampling tools and collecting the rinsate for analysis. The purpose of the equipment rinsate is to ensure that the sampling tools do not introduce contaminants into the sampled environmental media (soil or sediment) being collected for analysis.

To ensure the integrity of the sample analytical data, field quality assurance/quality control (QA/QC) procedures were included as follow:

- Decontamination of all non-disposable field equipment prior to each sample collection using Alconox wash, double-rinse with tap water, rinse with distilled water, and a final rinse using spray bottle with distilled water. All tools were dried with clean paper towel;
- Proper labeling, storing, and handling of the collected samples;
- Documentation of all observations in a field log book; and
- Documentation of all sample information on a COC form.

## 8.2 *LABORATORY ANALYSES*

The list of analytical methods for the different DUs are shown in Table 5-1 of the approved SAP. The six (four DUs and two additional replicates of DU03) surface soil multi-increment samples were analyzed as follow:

- DU01 thru DU04, replicate samples DU05 and DU06 and the Equipment Rinsate sample were analyzed for Pesticides using EPA Method 8081, total Lead and Arsenic using EPA Method 6010, and TCLP Lead using EPA Method 1311;
- DU02 and the replicate samples DU05 and DU06 were analyzed for Pesticides using EPA Method 8081;
- DU03 was analyzed for Pesticides using EPA Method 8081 and for total Arsenic using EPA Method 6010;
- DU04 was analyzed for Semivolatile Organic Compounds (SVOC's) by U.S. EPA Method 8270 and petroleum hydrocarbons (gas, diesel and oil ranges) using EPA Method 8015, and for Pesticides using EPA Method 8081; and
- DU01, DU03, and DU04 were analyzed for bioaccessible arsenic using a physiologically-based extraction test (PBET).

### 8.3

#### *DATA EVALUATION*

The analytical data from the surface soil collected during the Phase II ESA are summarized in this section. Hawaii Department of Health Environmental Action Levels (EALs) and the USEPA Region 9 Preliminary Remediation Goals (PRGs) for residential direct contact exposure were used to screen the analytical results in order to evaluate whether the environmental media could pose a potential human health or environmental risk.

Concentrations of chemicals below screening levels are unlikely to have a detrimental human health or environmental effect. Concentrations above screening levels warrant further consideration, by additional study or more comprehensive risk analysis but do not necessarily indicate an actual human health or environmental risk, and should not be interpreted as needing cleanup or other remedial action without further consideration.

Table 3 presents a summary of all compounds detected. Complete laboratory report for all analytical parameters is provided in Appendix E.

### 8.3.1

#### *Gym and Annex (DU01)*

Sample DU01 is a representative sample from 30-point multi-increment surface soil sample taken around and within a 5-foot wide perimeter of the Gym and annex buildings. The concentration of lead (total lead) in DU01 surface soil sample was 309 mg/kg, lower than the EAL of 400 mg/kg for residential land use [HDOH uses a screening level or 200 mg/kg for lead when considering ecotoxicity in environments with sensitive ecological habitat, however the subject site is not considered to be such a locality]. The arsenic content (total arsenic) in DU01 was reported to be 6.2 mg/kg, below the HDOH EAL and consistent with naturally-occurring background in Hamakua coast soils. Leachable lead was not detected using the Toxicity Characteristic Leaching Test (TCLP). Bioaccessible arsenic for DU01 was reported to be 0.02 mg/kg. No pesticide compounds were detected from the surface soil sample from this DU.

Results of the XRF field screening of the 30 discrete sample increments, that were composited to form the DU01 multi-increment sample, show lead content ranging from 25 to 1,483 mg/kg (Figure 4). Highest concentrations of lead were detected in the open areas on the north and south end of the Gym (between the gym and the south and north annexes). The highest XRF lead measurement recorded at the south open-area was 1,483 ppm while 1,168 ppm was the highest recorded lead concentration at the north end open area of the Gym. Calibration of the portable XRF meter was performed using certified standard reference materials obtained from the National Institute of Standards and Technology (NIST 2711 and NIST 2710), and were measured before, during and after soil testing. Raw XRF readings were corrected based on calibration curves developed from measurements of the NIST standards.

It is ERM's experience that XRF readings for total metals will generally be higher than conventional EPA laboratory methods (acid extractions and ICP). This may be due to the less than complete extraction of metals from environmental samples. Nonetheless, XRF measurements can provide insight into areas with relatively higher metals concentrations, but may be biased high relative to EPA analysis methods. Laboratory confirmation should follow XRF screening for more definitive assessment.

A supplemental site investigation using an XRF meter was conducted on 05 August 2008 to characterize the degree of contamination in the open parcel between the Gym and the annexes. This supplemental study was

done to determine the extent of lead and arsenic contamination in the subsurface soil in the area at depths from 0 to 2 feet bgs. Figure 5 shows the locations where subsurface samples were collected, at depth intervals of 0-6 inches, 6-12 inches, 12-18 inches, and 18-24 inches. The open parcels approximately 50 feet by 12 feet between the gym and the annexes were designated as North and South Parcels, as shown in Figure 5.

Table 4 shows the XRF field screening results for lead and arsenic at the north and south open parcel. The field screening indicates that higher levels of lead in soil are randomly spatially distributed within the open parcel. A total of 11 out of 88 samples were above the EAL of 400 mg/kg. Soil sample (OG-SE1-1.0A) taken from the South parcel, with an XRF lead reading of 1,185 mg/kg, and soil sample (OG-SW1-2.0B) from the North Parcel with a XRF lead reading of 821 mg/kg, were sent to the laboratory for total lead and TCLP lead analysis. Lab result reported total lead concentration for OG-SE1-1.0A and OG-SW1-2.0B at 246 and 690 mg/kg, respectively. TCLP lead leachate results were reported at 0.6 mg/L for OG-SE1-1.0A and 1.1 mg/L for OG-SW1-2.0B. Both TCLP values from these higher lead concentration samples are below the RCRA regulatory limit for the definition of a hazardous waste (5 mg/L).

### 8.3.2 *Open Area (DU02) and Ball Park (DU03)*

No pesticides were detected on DU02 and DU03, nor from the replicate samples DU05 and DU06. No arsenic was detected in DU03.

The amount of bioaccessible arsenic for DU02 and DU03 were measured at 1.44 and 1.63 ppm respectively. No pesticide was detected from the surface soil samples.

### 8.3.3 *Illegal Dumping Area (DU04)*

A total of 30 incremental samples were collected from DU-04 and combined to generate a representative multi-increment sample. The soil sample was analyzed for pesticides, SVOCs, and for TPH gasoline, diesel and oil. TPH gasoline-range petroleum hydrocarbon was detected at a concentration of 149 mg/kg, higher than the HDOH EALs of 100 mg/kg. No TPH-oil was detected at DU-04 while TPH-diesel was detected at a concentration below the HDOH EAL at 6.66 mg/kg. No pesticides or SVOCs were detected in DU-04.

#### 8.3.4

#### *Data Validation Report*

One equipment rinsate sample (ER-01) was collected to ensure sampling equipment was not a source of sample contamination. This sample was analyzed for Pesticides and total lead. No compounds were detected in the rinsate sample, indicating that the sample collection procedure was not likely to introduce contaminants into the collected samples.

EPA Tier 1A data validation was performed by Laboratory Data Consultants, Inc. of Carlsbad, California. Data validation was performed under Tier 1A guidelines utilizing the USEPA, Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review dated October 1999 and for Inorganic Data Review dated October 2004. In addition, the 3<sup>rd</sup> Edition of the EPA SW 846 Test Methods for Evaluating Solid Waste was applied to validation. A copy of the final data validation reports for SVOCs, PCBs, Metals, TPH-Diesel and TPH-Oil, and for Chlorinated Herbicides, are included in Appendix F.

All soil samples from the former O'okala Gym and Ball Park were used for conducting the Tier 1A data validation. All technical holding times and sample temperatures met validation criteria. No initial calibration and calibration verification is required for Tier 1A guidelines. Surrogates were added to the sample and the surrogate recovery was all within QC limit. Matrix spike and matrix spike duplicate samples (MS/MSD) were reviewed for all applicable matrices and the percent recovery (%R) and relative percent difference (RPD) were generally all within QC limits.

Table 3. Analytical Results. Phase II Site Investigation Study, Former O'okala Gym and Ball Park

Sample ID	DU-01	DU-02	DU-03	DU-04	Screening Levels	
					HDOH EALs <sup>(2)</sup>	USEPA PRGs <sup>(3)</sup>
Location	O'okala Gym	Open Area	Ball Park	Illegal Dump		
Sample Date	2/19/2007	2/19/2007	2/19/2007	2/19/2007		
Parameters <sup>(1)</sup>						
Metals (mg/Kg)						
Arsenic	<b>6.21</b>	--	ND(0.66) <sup>(4)</sup>	--	22	0.39
Lead	<b>309</b>	--	--	--	200	400
TCLP Lead (mg/L)	ND(0.2)	--	--	--		
Organochlorine Pesticides/PCBs (mg/Kg)	ND(0.005)	ND(0.005)	ND(0.005) <sup>(5)</sup>	ND(0.005)		
Semi-Volatile Organics (mg/Kg)	--	--	--	ND		
TPH (mg/Kg)						
TPH-Diesel	--	--	--	<b>6.66</b>	500	
TPH-Gasoline	--	--	--	<b>149</b>	100	
TPH-Oil	--	--	--	ND(<20)	500	
Bio-accessible Arsenic (mg/Kg)	0.02	1.44	1.63	--	4.2	

- (1) Detected compounds are shown in bold. Samples were analyzed for total lead, total arsenic, TPH, TCLP, SVOCs, pesticides, and bioaccessible arsenic.
- (2) HDOH Environmental Action Levels (EALs) for soil where groundwater is not a current or potential source of drinking water.
- (3) EPA Region 9 Preliminary Remediation Goals (PRGs) for residential soil exposure. (USEPA October 2004)
- (4) ND(<0.66) = not detected at reporting limit of 0.66 mg/kg.
- (5) Replicate samples DU5 and DU6 were also non-detect for pesticides

Table 4. XRF Subsurface Screening Results on open parcel between the O'okala Gym and the North and South Annex.

Location ID	Sampling Depth (feet)	South Parcel		North Parcel	
		As	Pb	As	Pb
EALs <sup>(1)</sup>		22	400	22	400
CL	0 - 0.5	< 31.3	< 50.0	< 10.2	88.5
	0.5 - 1.0	< 12.5	149	< 28.8	736
	1.0 - 1.5	< 11.6	112	< 6.2	15.0
	1.5 - 2.0	< 9.43	21.1	< 13.0	200
NE1	0 - 0.5	< 7.92	33.4	< 28.2	156
	0.5 - 1.0	< 15.3	227	< 10.9	103
	1.0 - 1.5	< 12.3	167	< 9.04	69.2
	1.5 - 2.0	< 33.6	105	< 10.8	121
NE2	0 - 0.5	< 15.8	224	< 8.32	64.9
	0.5 - 1.0	< 6.56	43.3	< 13.2	187
	1.0 - 1.5	< 7.07	25.5	< 8.60	106
	1.5 - 2.0	< 11.5	158	< 22.7	676
E1	0 - 0.5	< 18.7	515	< 5.63	25.4
	0.5 - 1.0	< 12.2	144	< 7.75	35.9
	1.0 - 1.5	< 13.1	178	< 6.32	17.0
	1.5 - 2.0	< 8.55	82.3	< 7.08	55.2
NW1	0 - 0.5	< 17.04	411	< 6.64	21.6
	0.5 - 1.0	< 7.01	32.2	< 8.61	60.7
	1.0 - 1.5	< 13.7	112	< 6.26	14.4
	1.5 - 2.0	< 8.51	54.3	< 7.32	57.8
N1	0 - 0.5	< 6.38	31.6	< 6.30	30.6
	0.5 - 1.0	< 7.80	29.1	< 13.0	136
	1.0 - 1.5	< 11.8	132	< 13.0	170
	1.5 - 2.0	< 6.50	17.8	< 16.4	285
SE1	0 - 0.5	< 21.7	237	< 6.58	24.6
	0.5 - 1.0	< 36.8	1185	< 6.68	31.0
	1.0 - 1.5	< 27.8	898	< 7.11	32.6
	1.5 - 2.0	< 10.6	90.3	< 10.2	96.8
S1	0 - 0.5	< 47.7	815	< 60.1	1107
	0.5 - 1.0	< 16.3	286	< 10.1	145
	1.0 - 1.5	< 17.4	274	< 16.0	227
	1.5 - 2.0	< 16.3	267	< 14.9	202
SW1	0 - 0.5	< 23.7	579	< 7.16	26.0
	0.5 - 1.0	< 13.6	172	< 7.19	35.0
	1.0 - 1.5	< 12.6	141	< 12.2	136
	1.5 - 2.0	< 10.4	86.3	< 28.4	821
SW2	0 - 0.5	< 14.2	163	< 15.1	184
	0.5 - 1.0	< 9.91	75.9	< 13.4	241
	1.0 - 1.5	< 7.63	36.2	< 9.84	84.2
	1.5 - 2.0	< 6.28	20.2	< 8.60	63.9
W1	0 - 0.5	< 8.09	49.4	< 7.55	44.1

0.5 - 1.0	< 8.01	68.7	< 11.4	131
1.0 - 1.5	< 12.1	125	< 10.2	90.5
1.5 - 2.0	< 18.9	404	< 10.6	98.4

(1) HDOH Environmental Action Levels for soil where groundwater is not current or potential source of drinking water and is >150m to surface water body (August 2006)

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## 9.0

## SUMMARY OF FINDINGS AND RECOMMENDATION

### 9.1

#### *Conclusion*

ERM conducted a Phase I and II ESA at the subject property. Our conclusions and opinions are based on a scope of work that followed the requirements set forth in ASTM Standard E 1527-05 and 40 CFR 312. A summary of ERM's conclusions and opinions are presented below.

Based on the data obtained during the Site visit, the environmental database review, and interviews with persons familiar with the Site and its history, the following environmental conditions were identified at the Site:

#### *Recognized Environmental Conditions*

A Recognized Environmental Condition (REC), as defined in ASTM E 1527-05, is "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 hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property, excluding de minimis conditions."

- Lead was detected in the surface soils around the perimeter of the Gym and the annex buildings, but at an average concentration below residential screening levels. XRF screening of individual grab samples indicated that higher lead levels were randomly spatially distributed.
- Gasoline-range petroleum hydrocarbons were identified in surface soils from the northeast portion of the subject property (DU-04) at a concentration of 149 mg/kg, above the Hawaii screening level of 100 mg/kg.

#### *De Minimis or Other Potential Issues*

- Empty hydraulic fluid drums and an array of abandoned vehicles were found on the subject property in a highly vegetated area located northeast of the ball park.

ERM recommends further investigation of the debris dump area in the northeast corner of the subject property to determine the source of the

peteroleum hydrocarbon detected in soils. Lead-impacted soil surrounding the former O'okala Gym and annex do not require remediation based on an average concentration below screening levels. However, the lead-based paint on the exterior and interior walls of the Gym, suspected to be the source of soil lead contamination, should be abated prior to future use of the facility.

10.0

**QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONAL  
CONDUCTING THIS ASSESSMENT**

This Phase I and II ESA was conducted by Achie Reyes and Ashley Kerr of ERM-West Inc. Mr. Bill Cutler of ERM-West reviewed the contents of this report. The professional qualifications for Mr. Reyes, Ms. Kerr and Mr. Cutler are included in Appendix G.

The signatures for Mr. Reyes, Ms. Kerr and Mr. Cutler are affixed onto the cover of this report. All are designated Environmental Professionals for this project and prepared the following declaration.

- 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.

## 11.0

### *LIMITATIONS*

The innocent landowner, contiguous owner, and prospective purchaser defenses to liability under CERCLA require that a person acquiring property conduct an all appropriate inquiry with respect to the subject property. ERM has conducted this environmental assessment in accordance with the standards for conducting an all appropriate inquiry set forth at 40 CFR. Part 312. Those standards require the application of scientific principles and professional judgment to certain facts with resultant subjective interpretations and exercise of discretion.

Professional judgments expressed herein are based on the facts currently available within the limits of the existing data, and data gaps identified herein, scope of work, budget, and schedule. Those standards also require that the client undertake certain additional inquiries. In addition, the liability defenses under CERCLA require, among several other things, that the client after the acquisition stop any continuing releases, prevent any future threatened releases and prevent or limit human, environmental or natural resource exposure to any hazardous substance released at the subject property. Therefore, ERM makes no warranties, expressed or implied, including, without limitation, warranties as to merchantability or fitness for a particular purpose, including any warranty that this Phase I assessment will in fact qualify client for the innocent landowner, contiguous property owner or prospective purchaser defense to liability under CERCLA. ERM's assessment is limited strictly to identifying recognized environmental conditions associated with the subject property. Results of this assessment are based upon the visual site inspection of readily accessible areas of the subject property conducted by ERM personnel, information from interviews with knowledgeable persons regarding the Site, information reviewed regarding historical uses, information provided by contacted regulatory agencies, and review of publicly available and practically reviewable information identifying current and historical uses of the property and surrounding properties.

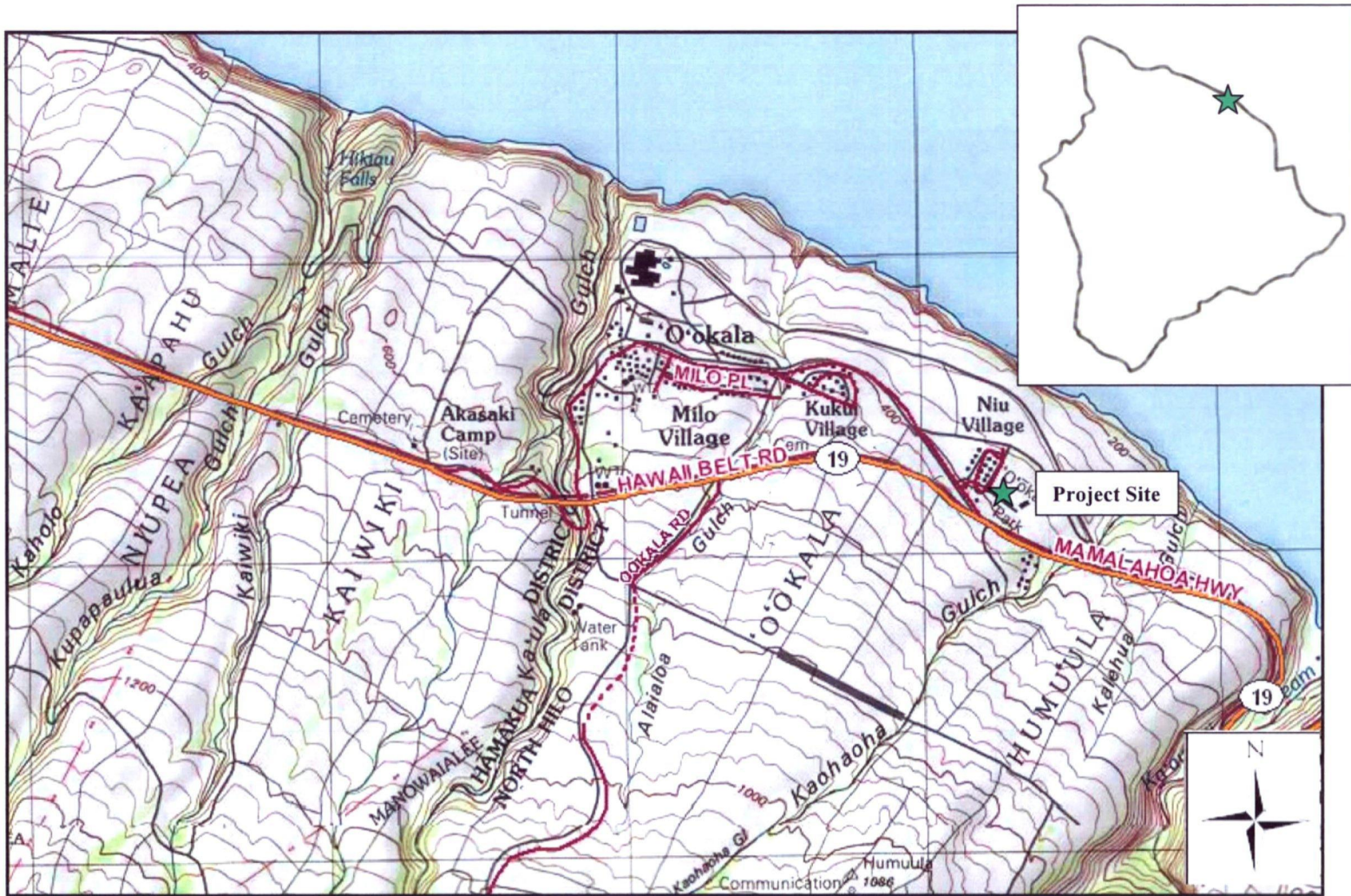
All conclusions and recommendations regarding the subject property represent the professional opinions of the ERM personnel involved with the project, and the results of this report should not be considered a legal interpretation of existing environmental regulations. ERM assumes no responsibility or liability for errors in the public data utilized, statements from sources outside of ERM, or developments resulting from situations

outside the scope of this project. We make no warranties, expressed or implied, including, without limitation, warranties as to merchantability or fitness for a particular purpose.

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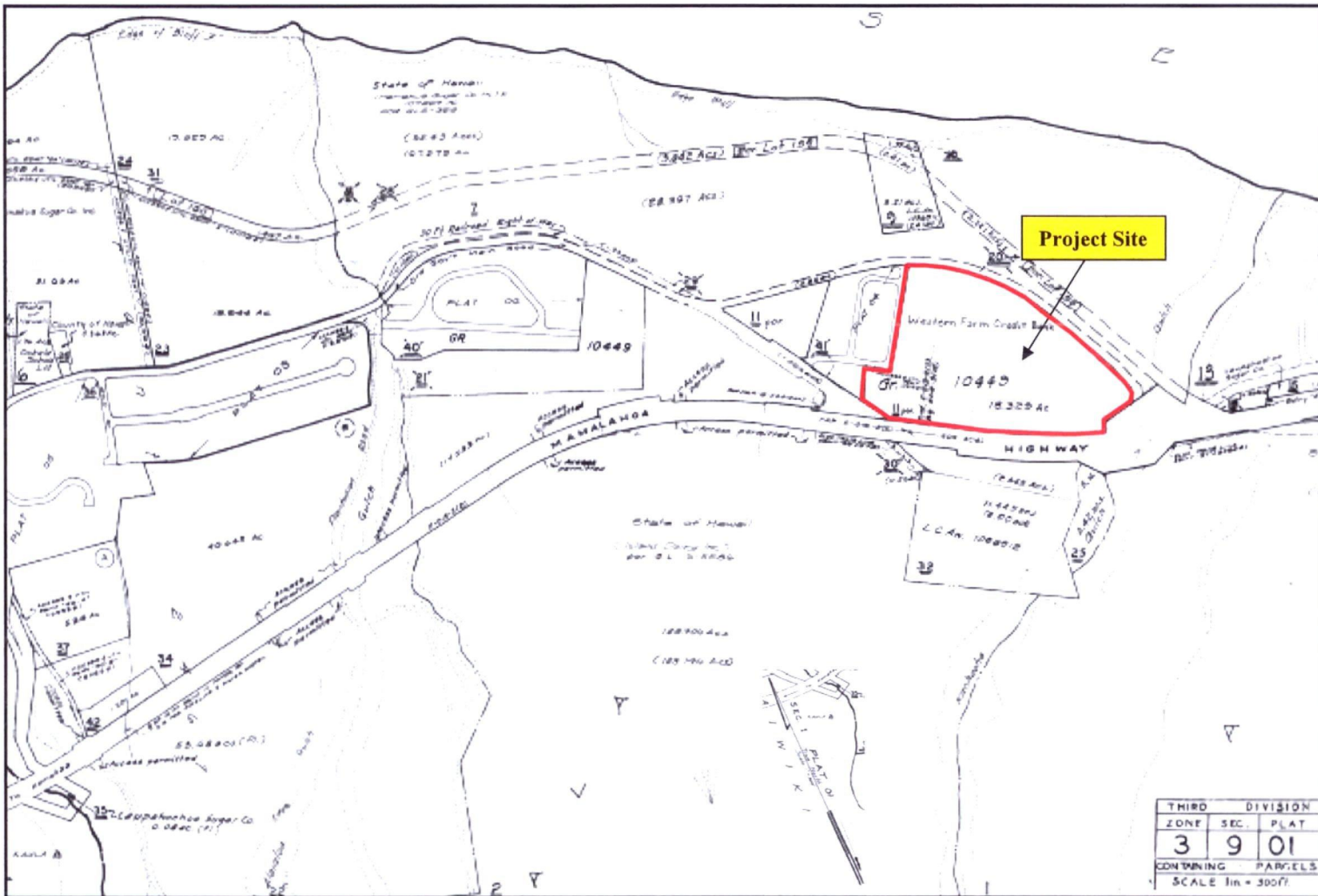
*Figures*



733 Bishop St.,  
Pacific Guardian Center  
Suite 1872  
Honolulu, HI 96813

**Figure 1. Project Location Map**  
**O'okala Gym and Ball Park**

TMK: 3-9-001: 011



733 Bishop St.,  
Pacific Guardian Center  
Suite 1872  
Honolulu, HI 96813

**Figure 2. TMK Site Map  
O'okala Gym and Ball Park**

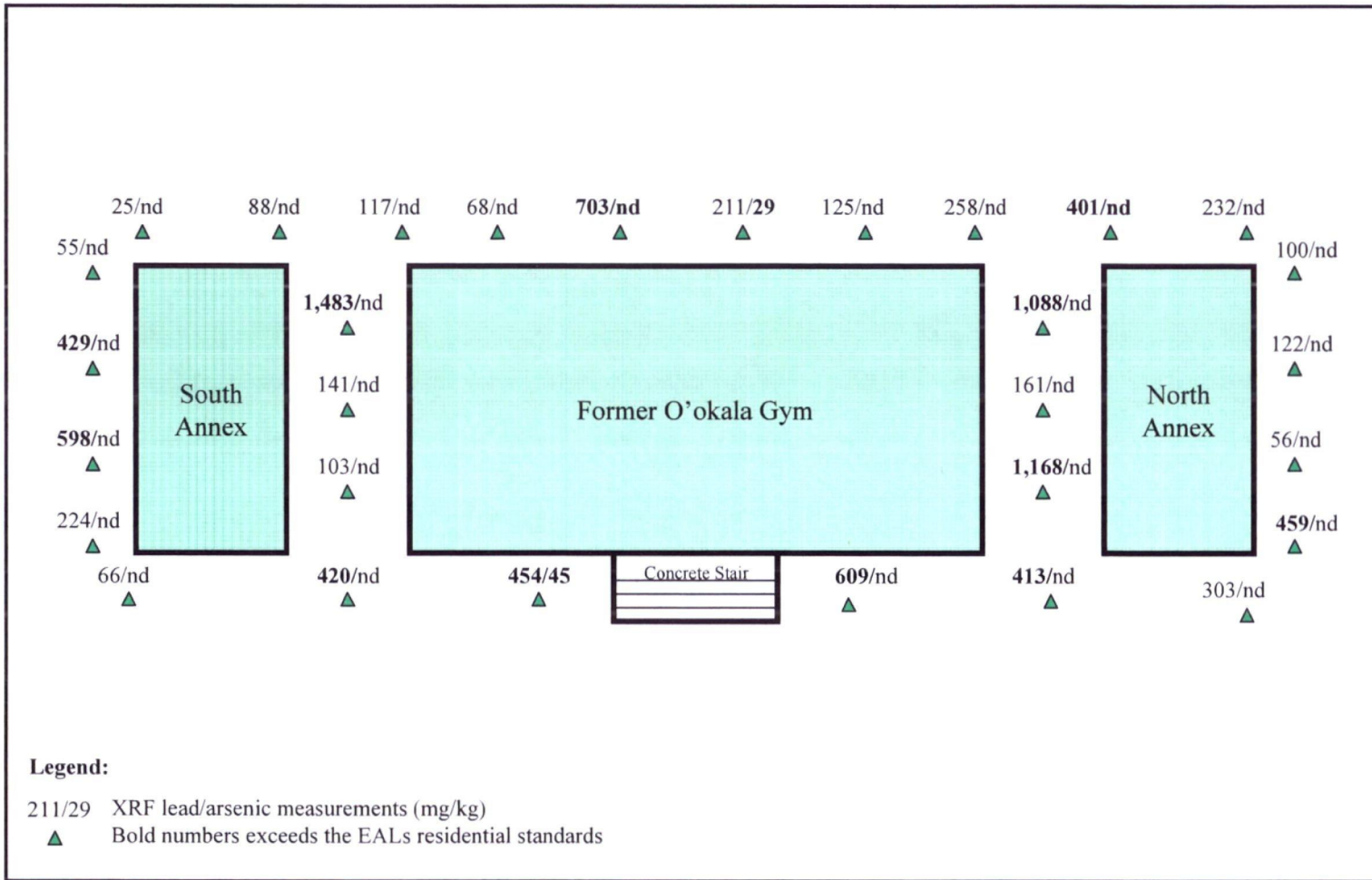
TMK: 3-9-001: 011



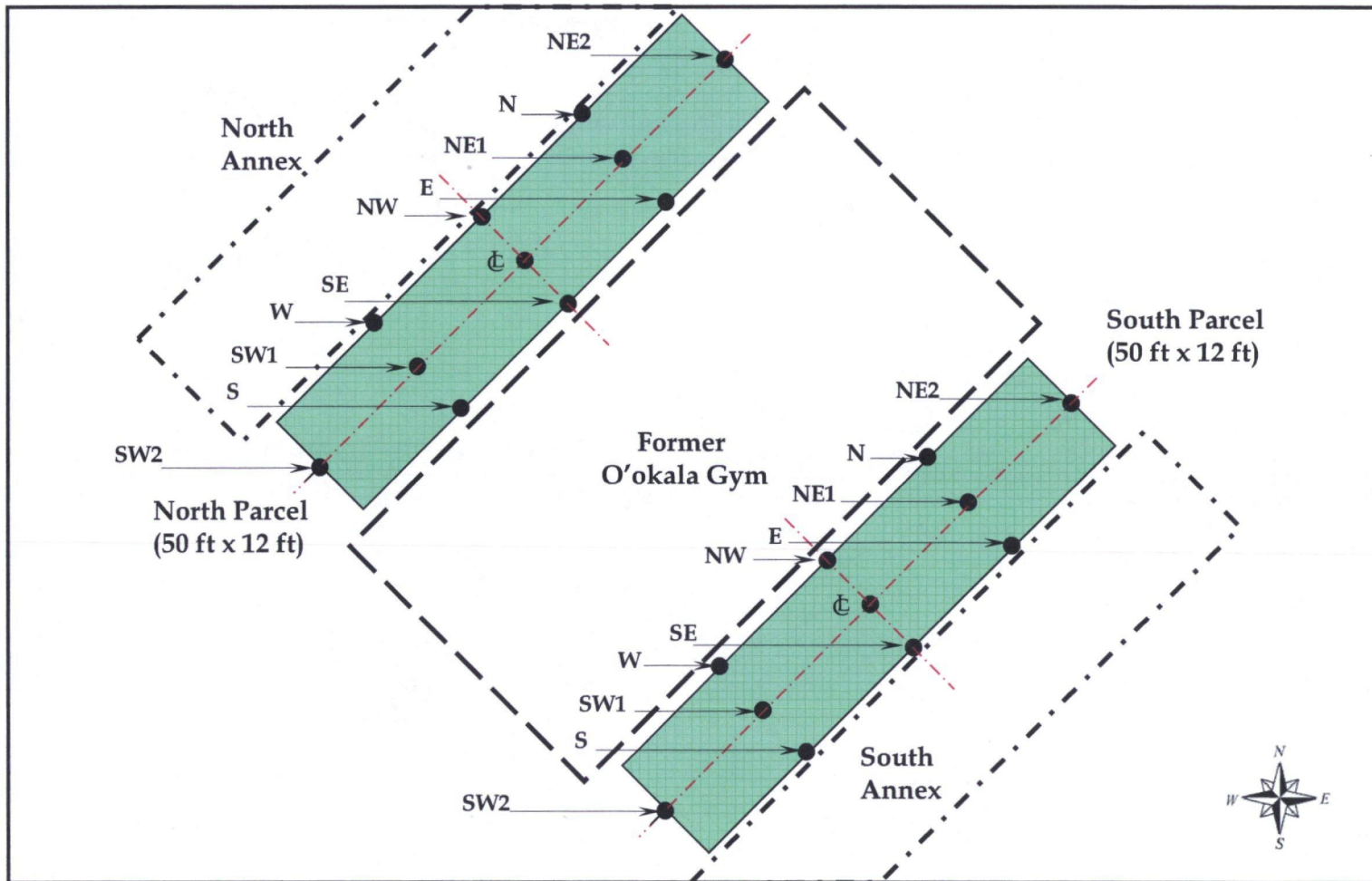
733 Bishop St.,  
 Pacific Guardian Center  
 Suite 1872  
 Honolulu, HI 96813

**Figure 3. Sampling Location Map  
 O'okala Gym and Ball Park**

TMK: 3-9-001: 011



**Figure 4. XRF Field Screening Results  
O'okala Gym**



733 Bishop St.,  
Pacific Guardian Center  
Suite 1872  
Honolulu, HI 96813

**Figure 5. Subsurface XRF Field Screening Location  
North and South Annexes, O'okala Gym**

TMK: 3-9-001: 011

*Appendix A*  
*Site Photographs*

Former O'okala Gym & Ball Park  
Photo Log



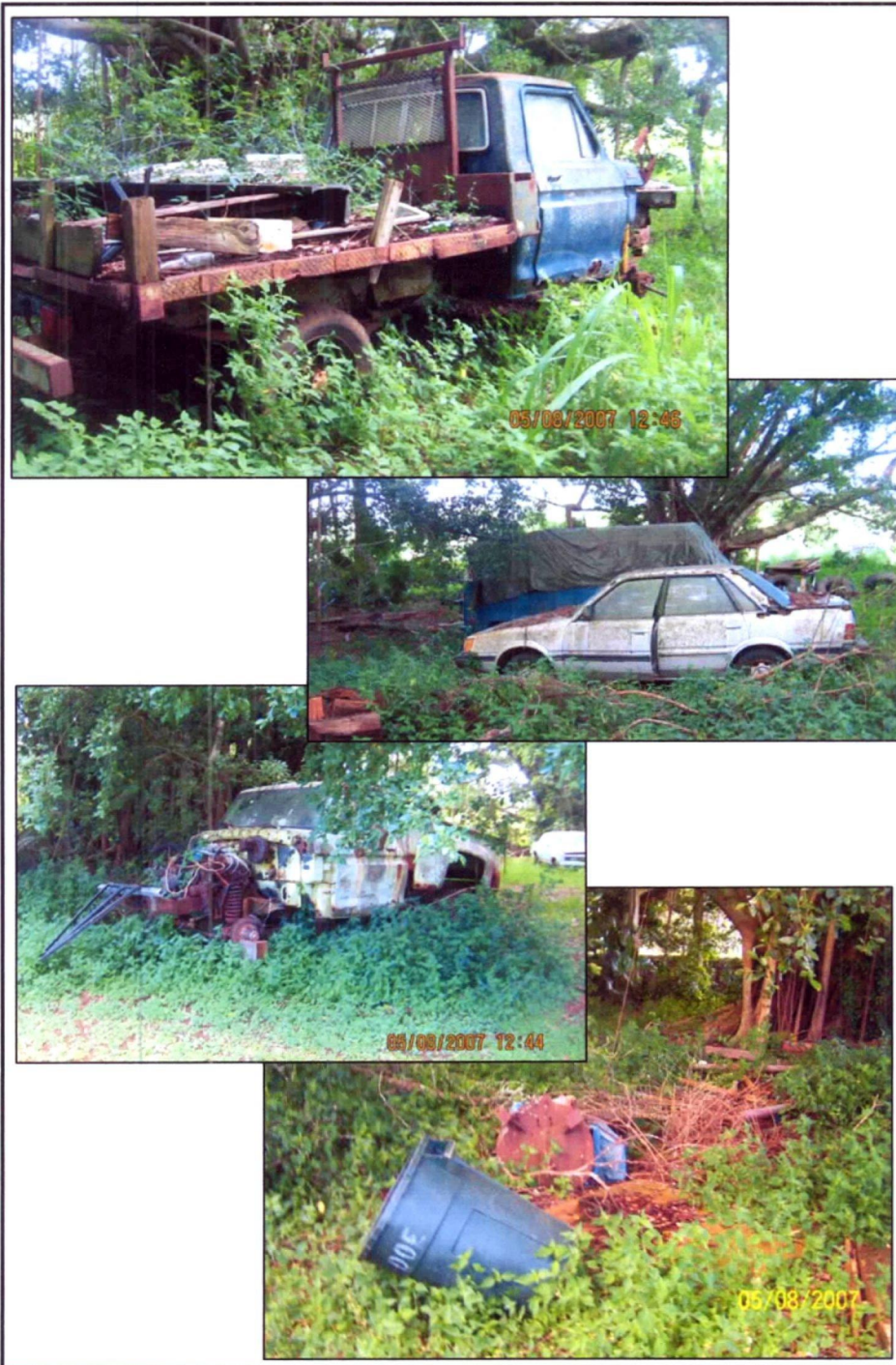
The former O'okala gym and the attached north and south annexes.

Former O'okala Gym & Ball Park  
Photo Log



Various debris was found around the area of the former gym and annexes.

Former O'okala Gym & Ball Park  
Photo Log



Abandoned cars and debris found scattered along the northeastern portion of the ball park.

Former O'okala Gym & Ball Park  
Photo Log



Site investigation included soil sampling around the gym, annexes, open field, and field screening using a portable XRF meter. Decontamination of reusable field equipment was done prior to collecting samples at different decision units.

Former O'okala Gym & Ball Park  
Photo Log



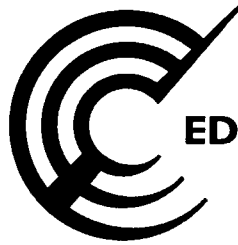
Soil sampling using a soil probe around abandoned cars and debris found in the northeastern section of the O'okala ball park.

Former O'okala Gym & Ball Park  
Photo Log



Subsurface characterization study to determine the extent of lead contamination in the open area between the gym and the south and north annexes using an XRF meter. Samples were taken at different locations and depths (6, 12, 18, and 24 inches bgs).

*Appendix B*  
*EDR Database Search Results*



**EDR**® Environmental  
Data Resources Inc

## **The EDR Radius Map with GeoCheck®**

**O Okala Ball Park and Gym  
39-3200 Niu Village Road  
Ookala, HI 96774**

**Inquiry Number: 1911866.2s**

**April 25, 2007**

## **The Standard in Environmental Risk Information**

440 Wheelers Farms Road  
Milford, Connecticut 06461

### **Nationwide Customer Service**

Telephone: 1-800-352-0050  
Fax: 1-800-231-6802  
Internet: [www.edrnet.com](http://www.edrnet.com)

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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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## EXECUTIVE SUMMARY

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

### TARGET PROPERTY INFORMATION

#### ADDRESS

39-3200 NIU VILLAGE ROAD  
OOKALA, HI 96774

#### COORDINATES

Latitude (North): 20.010300 - 20° 0' 37.1"  
Longitude (West): 155.272200 - 155° 16' 19.9"  
Universal Transverse Mercator: Zone 5  
UTM X (Meters): 262279.8  
UTM Y (Meters): 2214103.0  
Elevation: 376 ft. above sea level

#### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 20155-A3 KUKAIAU, HI  
Most Recent Revision: Not reported  
  
South Map: 19155-H3 KEANAKOLU, 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:

#### FEDERAL RECORDS

NPL..... National Priority List  
Proposed NPL..... Proposed National Priority List Sites  
Delisted NPL..... National Priority List Deletions  
NPL LIENS..... Federal Superfund Liens  
CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System  
CERC-NFRAP..... CERCLIS No Further Remedial Action Planned

## EXECUTIVE SUMMARY

<b>CORRACTS</b>	Corrective Action Report
<b>RCRA-TSDF</b>	Resource Conservation and Recovery Act Information
<b>RCRA-LQG</b>	Resource Conservation and Recovery Act Information
<b>RCRA-SQG</b>	Resource Conservation and Recovery Act Information
<b>ERNS</b>	Emergency Response Notification System
<b>HMIRS</b>	Hazardous Materials Information Reporting System
<b>US ENG CONTROLS</b>	Engineering Controls Sites List
<b>US INST CONTROL</b>	Sites with Institutional Controls
<b>DOD</b>	Department of Defense Sites
<b>FUDS</b>	Formerly Used Defense Sites
<b>US BROWNFIELDS</b>	A Listing of Brownfields Sites
<b>CONSENT</b>	Superfund (CERCLA) Consent Decrees
<b>ROD</b>	Records Of Decision
<b>UMTRA</b>	Uranium Mill Tailings Sites
<b>ODI</b>	Open Dump Inventory
<b>TRIS</b>	Toxic Chemical Release Inventory System
<b>TSCA</b>	Toxic Substances Control Act
<b>FTTS</b>	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
<b>SSTS</b>	Section 7 Tracking Systems
<b>ICIS</b>	Integrated Compliance Information System
<b>LUCIS</b>	Land Use Control Information System
<b>RADINFO</b>	Radiation Information Database
<b>HIST FTTS</b>	FIFRA/TSCA Tracking System Administrative Case Listing
<b>US CDL</b>	Clandestine Drug Labs
<b>DOT OPS</b>	Incident and Accident Data
<b>PADS</b>	PCB Activity Database System
<b>MLTS</b>	Material Licensing Tracking System
<b>MINES</b>	Mines Master Index File
<b>FINDS</b>	Facility Index System/Facility Registry System
<b>RAATS</b>	RCRA Administrative Action Tracking System

### STATE AND LOCAL RECORDS

<b>SHWS</b>	Sites List
<b>SWF/LF</b>	Permitted Landfills in the State of Hawaii
<b>LUST</b>	Leaking Underground Storage Tank Database
<b>UST</b>	Underground Storage Tank Database
<b>SPILLS</b>	Release Notifications
<b>INST CONTROL</b>	Sites with Institutional Controls
<b>VCP</b>	Voluntary Response Program Sites
<b>DRYCLEANERS</b>	Permitted Drycleaner Facility Listing
<b>BROWNFIELDS</b>	Brownfields Sites
<b>AIRS</b>	List of Permitted Facilities

### TRIBAL RECORDS

<b>INDIAN RESERV</b>	Indian Reservations
<b>INDIAN LUST</b>	Leaking Underground Storage Tanks on Indian Land
<b>INDIAN UST</b>	Underground Storage Tanks on Indian Land

### EDR PROPRIETARY RECORDS

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

### SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were not identified.

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

## EXECUTIVE SUMMARY

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

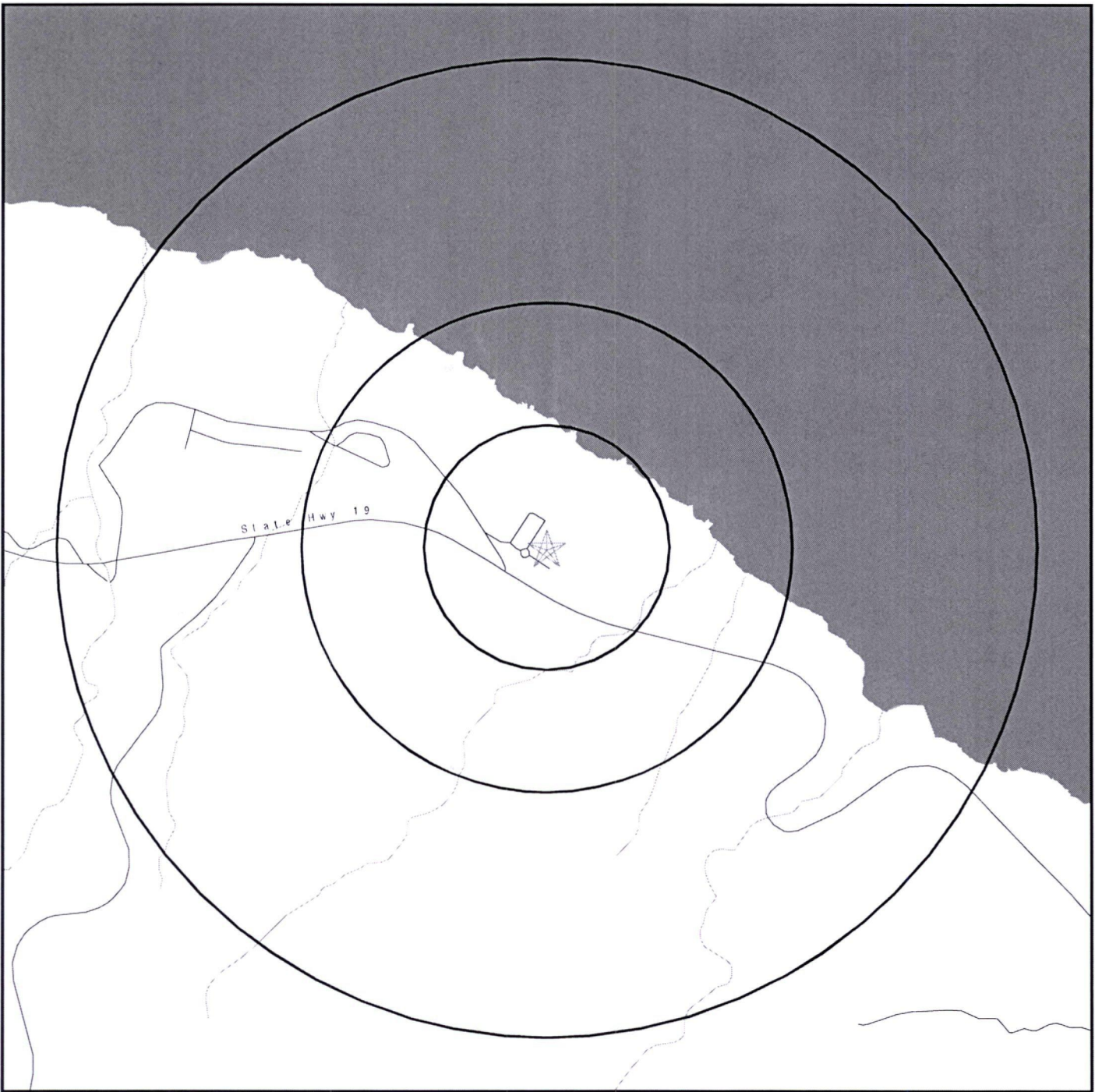
Site Name

OOKALA SUGAR MILL BOILER UST  
OOKALA FUEL STATION  
OOKALA RADIO STATION  
OOKALA RADIO STATION  
HAMAKUA SUGAR CO OOKALA HI

Database(s)

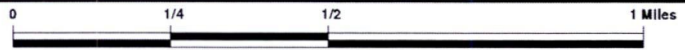
SHWS, SPILLS  
LUST, UST  
LUST  
UST  
PADS, RCRA-SQG, FINDS

# OVERVIEW MAP - 1911866.2s



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

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

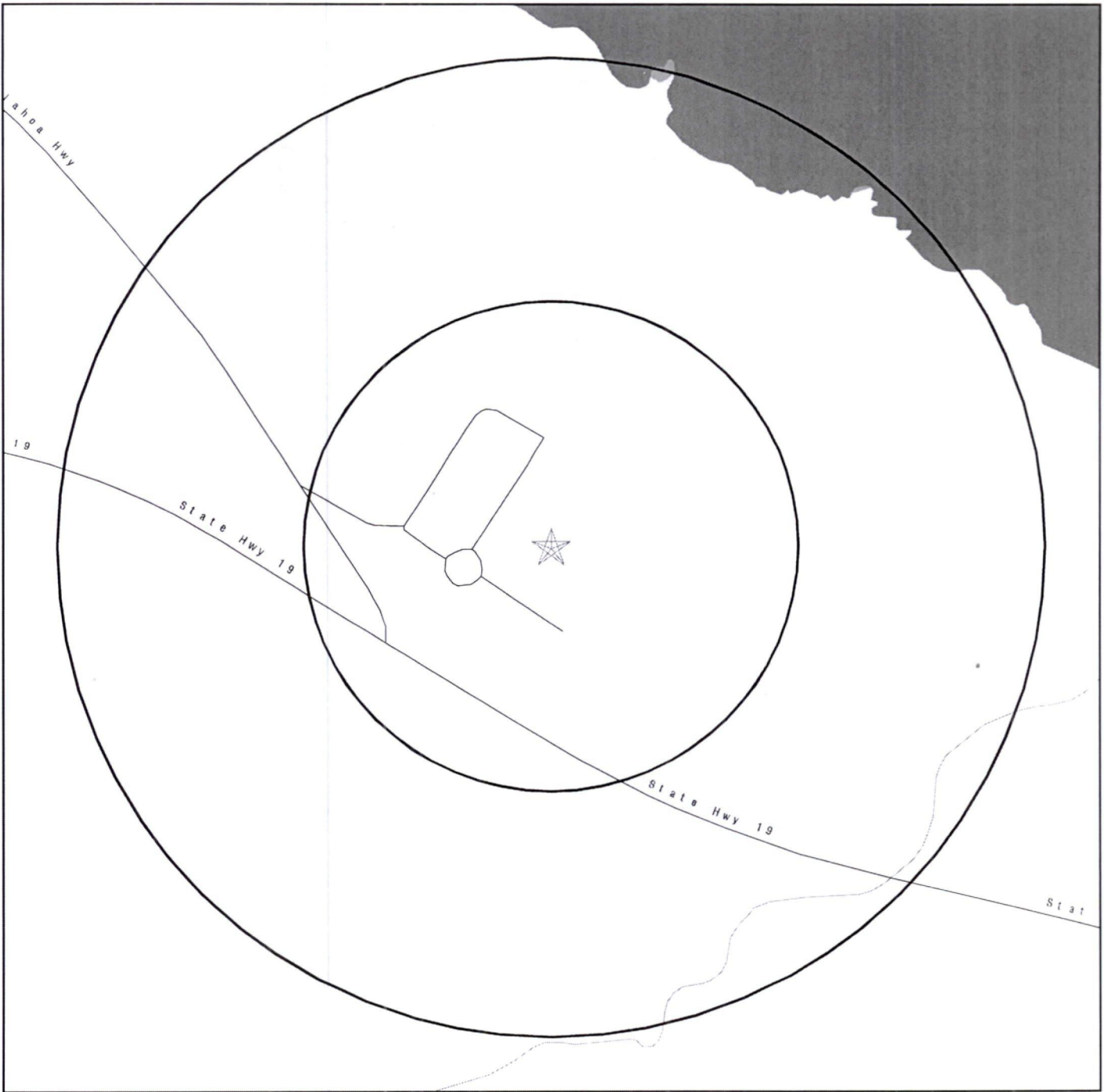


This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: O Okala Ball Park and Gym  
 ADDRESS: 39-3200 Niu Village Road  
 Ookala HI 96774  
 LAT/LONG: 20.0103 / 155.2722

CLIENT: ERM  
 CONTACT: Ashley Kerr  
 INQUIRY #: 1911866.2s  
 DATE: April 25, 2007 6:59 pm

# DETAIL MAP - 1911866.2s



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

- Indian Reservations BIA
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory

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

SITE NAME: O Okala Ball Park and Gym  
 ADDRESS: 39-3200 Niu Village Road  
 Ookala HI 96774  
 LAT/LONG: 20.0103 / 155.2722

CLIENT: ERM  
 CONTACT: Ashley Kerr  
 INQUIRY #: 1911866.2s  
 DATE: April 25, 2007 6:59 pm

## MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b><u>FEDERAL RECORDS</u></b>								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
Delisted NPL		1.000	0	0	0	0	NR	0
NPL LIENS		TP	NR	NR	NR	NR	NR	0
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP		0.500	0	0	0	NR	NR	0
CORRACTS		1.000	0	0	0	0	NR	0
RCRA TSD		0.500	0	0	0	NR	NR	0
RCRA Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
RCRA Sm. Quan. Gen.		0.250	0	0	NR	NR	NR	0
ERNS		TP	NR	NR	NR	NR	NR	0
HMIRS		TP	NR	NR	NR	NR	NR	0
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	0	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	0	0	0	0	NR	0
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
ODI		0.500	0	0	0	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	NR	0
SSTS		TP	NR	NR	NR	NR	NR	0
ICIS		TP	NR	NR	NR	NR	NR	0
LUCIS		0.500	0	0	0	NR	NR	0
RADINFO		TP	NR	NR	NR	NR	NR	0
HIST FTTS		TP	NR	NR	NR	NR	NR	0
CDL		TP	NR	NR	NR	NR	NR	0
DOT OPS		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
FINDS		TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
<b><u>STATE AND LOCAL RECORDS</u></b>								
SHWS		1.000	0	0	0	0	NR	0
State Landfill		0.500	0	0	0	NR	NR	0
LUST		0.500	0	0	0	NR	NR	0
UST		0.250	0	0	NR	NR	NR	0
SPILLS		TP	NR	NR	NR	NR	NR	0
INST CONTROL		0.500	0	0	0	NR	NR	0
VCP		0.500	0	0	0	NR	NR	0
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
BROWNFIELDS		0.500	0	0	0	NR	NR	0

## MAP FINDINGS SUMMARY

<u>Database</u>	<u>Target Property</u>	<u>Search Distance (Miles)</u>	<u>&lt; 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>&gt; 1</u>	<u>Total Plotted</u>
AIRS		TP	NR	NR	NR	NR	NR	0
<b><u>TRIBAL RECORDS</u></b>								
INDIAN RESERV		1.000	0	0	0	0	NR	0
INDIAN LUST		0.500	0	0	0	NR	NR	0
INDIAN UST		0.250	0	0	NR	NR	NR	0
<b><u>EDR PROPRIETARY RECORDS</u></b>								
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  
Distance (ft.)  
Elevation

MAP FINDINGS

NO SITES FOUND

Database(s) EDR ID Number  
EPA ID Number

## ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
OOKALA	U001237085	OOKALA FUEL STATION	P.O. BOX 250/STATE ROUTE 19 / OLD MAMALAHOA HWY	96774	LUST, UST
OOKALA	S106982454	OOKALA RADIO STATION	N HILO MAMALAHOA HWY	96774	LUST
OOKALA	U003222300	OOKALA RADIO STATION	N HILO MAMALAHOA HWY	96774	UST
OOKALA	1000986327	HAMAKUA SUGAR CO OOKALA HI	OLD MAMALAHOA HWY 1 MI NE OF	96774	PADS, RCRA-SQG, FINDS
OOKALA	S106819490	OOKALA SUGAR MILL BOILER UST	OLD MAMALAHOA HWY	96774	SHWS, SPILLS

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

## FEDERAL RECORDS

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

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

Date of Government Version: 01/25/2007	Source: EPA
Date Data Arrived at EDR: 01/31/2007	Telephone: N/A
Date Made Active in Reports: 03/12/2007	Last EDR Contact: 01/31/2007
Number of Days to Update: 40	Next Scheduled EDR Contact: 04/30/2007
	Data Release Frequency: Quarterly

### **NPL Site Boundaries**

#### Sources:

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

EPA Region 1  
Telephone 617-918-1143

EPA Region 6  
Telephone: 214-655-6659

EPA Region 3  
Telephone 215-814-5418

EPA Region 7  
Telephone: 913-551-7247

EPA Region 4  
Telephone 404-562-8033

EPA Region 8  
Telephone: 303-312-6774

EPA Region 5  
Telephone 312-886-6686

EPA Region 9  
Telephone: 415-947-4246

EPA Region 10  
Telephone 206-553-8665

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

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

Date of Government Version: 09/27/2006	Source: EPA
Date Data Arrived at EDR: 11/01/2006	Telephone: N/A
Date Made Active in Reports: 11/22/2006	Last EDR Contact: 02/23/2007
Number of Days to Update: 21	Next Scheduled EDR Contact: 04/30/2007
	Data Release Frequency: Quarterly

### **DELISTED NPL:** National Priority List Deletions

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

Date of Government Version: 12/28/2006	Source: EPA
Date Data Arrived at EDR: 01/31/2007	Telephone: N/A
Date Made Active in Reports: 03/12/2007	Last EDR Contact: 01/31/2007
Number of Days to Update: 40	Next Scheduled EDR Contact: 04/30/2007
	Data Release Frequency: Quarterly

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 03/26/2007
Number of Days to Update: 56	Next Scheduled EDR Contact: 05/21/2007
	Data Release Frequency: No Update Planned

### **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: 11/28/2006	Source: EPA
Date Data Arrived at EDR: 12/19/2006	Telephone: 703-603-8960
Date Made Active in Reports: 01/29/2007	Last EDR Contact: 03/21/2007
Number of Days to Update: 41	Next Scheduled EDR Contact: 06/18/2007
	Data Release Frequency: Quarterly

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

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

Date of Government Version: 12/20/2006	Source: EPA
Date Data Arrived at EDR: 01/29/2007	Telephone: 703-603-8960
Date Made Active in Reports: 02/27/2007	Last EDR Contact: 03/19/2007
Number of Days to Update: 29	Next Scheduled EDR Contact: 06/18/2007
	Data Release Frequency: Quarterly

### **CORRACTS:** Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 01/04/2007	Source: EPA
Date Data Arrived at EDR: 01/18/2007	Telephone: 800-424-9346
Date Made Active in Reports: 02/27/2007	Last EDR Contact: 03/05/2007
Number of Days to Update: 40	Next Scheduled EDR Contact: 06/04/2007
	Data Release Frequency: Quarterly

### **RCRA:** Resource Conservation and Recovery Act Information

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS). The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/13/2006	Source: EPA
Date Data Arrived at EDR: 06/28/2006	Telephone: (415) 495-8895
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 04/18/2007
Number of Days to Update: 56	Next Scheduled EDR Contact: 07/16/2007
	Data Release Frequency: Quarterly

### **ERNS:** Emergency Response Notification System

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

Date of Government Version: 12/31/2006	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 01/24/2007	Telephone: 202-267-2180
Date Made Active in Reports: 03/12/2007	Last EDR Contact: 04/24/2007
Number of Days to Update: 47	Next Scheduled EDR Contact: 07/23/2007
	Data Release Frequency: Annually

### **HMIRS:** Hazardous Materials Information Reporting System

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

Date of Government Version: 11/28/2006	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 01/17/2007	Telephone: 202-366-4555
Date Made Active in Reports: 02/27/2007	Last EDR Contact: 04/17/2007
Number of Days to Update: 41	Next Scheduled EDR Contact: 07/16/2007
	Data Release Frequency: Annually

### **US ENG CONTROLS:** Engineering Controls Sites List

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

Date of Government Version: 01/24/2007	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/31/2007	Telephone: 703-603-8905
Date Made Active in Reports: 04/04/2007	Last EDR Contact: 04/02/2007
Number of Days to Update: 63	Next Scheduled EDR Contact: 07/02/2007
	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: 01/24/2007	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/31/2007	Telephone: 703-603-8905
Date Made Active in Reports: 02/27/2007	Last EDR Contact: 04/02/2007
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/02/2007
	Data Release Frequency: Varies

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 11/10/2006	Telephone: 703-692-8801
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 02/08/2007
Number of Days to Update: 62	Next Scheduled EDR Contact: 05/07/2007
	Data Release Frequency: Semi-Annually

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

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

Date of Government Version: 12/31/2005	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 09/20/2006	Telephone: 202-528-4285
Date Made Active in Reports: 11/22/2006	Last EDR Contact: 04/02/2007
Number of Days to Update: 63	Next Scheduled EDR Contact: 07/02/2007
	Data Release Frequency: Varies

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

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

Date of Government Version: 01/29/2007	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/31/2007	Telephone: 202-566-2777
Date Made Active in Reports: 04/04/2007	Last EDR Contact: 03/12/2007
Number of Days to Update: 63	Next Scheduled EDR Contact: 06/11/2007
	Data Release Frequency: Semi-Annually

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

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

Date of Government Version: 08/23/2006	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 03/06/2007	Telephone: Varies
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 04/23/2007
Number of Days to Update: 35	Next Scheduled EDR Contact: 07/23/2007
	Data Release Frequency: Varies

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

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

Date of Government Version: 01/10/2007	Source: EPA
Date Data Arrived at EDR: 01/24/2007	Telephone: 703-416-0223
Date Made Active in Reports: 02/27/2007	Last EDR Contact: 03/27/2007
Number of Days to Update: 34	Next Scheduled EDR Contact: 07/02/2007
	Data Release Frequency: Annually

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### **UMTRA:** Uranium Mill Tailings Sites

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

Date of Government Version: 12/31/2005	Source: Department of Energy
Date Data Arrived at EDR: 11/08/2006	Telephone: 505-845-0011
Date Made Active in Reports: 01/29/2007	Last EDR Contact: 03/20/2007
Number of Days to Update: 82	Next Scheduled EDR Contact: 06/18/2007
	Data Release Frequency: Varies

### **ODI:** Open Dump Inventory

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

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

### **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: 12/31/2004	Source: EPA
Date Data Arrived at EDR: 06/22/2006	Telephone: 202-566-0250
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 03/20/2007
Number of Days to Update: 62	Next Scheduled EDR Contact: 06/18/2007
	Data Release Frequency: Annually

### **TSCA:** Toxic Substances Control Act

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

Date of Government Version: 12/31/2002	Source: EPA
Date Data Arrived at EDR: 04/14/2006	Telephone: 202-260-5521
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 04/16/2007
Number of Days to Update: 46	Next Scheduled EDR Contact: 07/16/2007
	Data Release Frequency: Every 4 Years

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

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

Date of Government Version: 02/26/2007	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-566-1667
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 03/19/2007
Number of Days to Update: 40	Next Scheduled EDR Contact: 06/18/2007
	Data Release Frequency: Quarterly

### **FTTS INSP:** FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 02/26/2007	Source: EPA
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-566-1667
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 03/19/2007
Number of Days to Update: 40	Next Scheduled EDR Contact: 06/18/2007
	Data Release Frequency: Quarterly

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### SSTS: Section 7 Tracking Systems

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

Date of Government Version: 12/31/2004	Source: EPA
Date Data Arrived at EDR: 05/11/2006	Telephone: 202-564-4203
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 04/12/2007
Number of Days to Update: 11	Next Scheduled EDR Contact: 07/16/2007
	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: 11/06/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/02/2007	Telephone: 202-564-5088
Date Made Active in Reports: 04/04/2007	Last EDR Contact: 04/16/2007
Number of Days to Update: 61	Next Scheduled EDR Contact: 07/16/2007
	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: 01/30/2007	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/31/2007	Telephone: 202-343-9775
Date Made Active in Reports: 02/27/2007	Last EDR Contact: 01/31/2007
Number of Days to Update: 27	Next Scheduled EDR Contact: 04/30/2007
	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: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 03/19/2007
Number of Days to Update: 40	Next Scheduled EDR Contact: 06/18/2007
	Data Release Frequency: No Update Planned

### CDL: Clandestine Drug Labs

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

Date of Government Version: 12/01/2006	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 01/08/2007	Telephone: 202-307-1000
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 03/29/2007
Number of Days to Update: 3	Next Scheduled EDR Contact: 06/25/2007
	Data Release Frequency: Quarterly

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### **LUCIS:** Land Use Control Information System

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

Date of Government Version: 12/09/2005	Source: Department of the Navy
Date Data Arrived at EDR: 12/11/2006	Telephone: 843-820-7326
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 03/26/2007
Number of Days to Update: 31	Next Scheduled EDR Contact: 06/11/2007
	Data Release Frequency: Varies

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

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

Date of Government Version: 02/14/2007	Source: Department of Transportation, Office of Pipeline Safety
Date Data Arrived at EDR: 02/28/2007	Telephone: 202-366-4595
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 02/28/2007
Number of Days to Update: 31	Next Scheduled EDR Contact: 05/28/2007
	Data Release Frequency: Varies

### **PADS:** PCB Activity Database System

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

Date of Government Version: 10/17/2006	Source: EPA
Date Data Arrived at EDR: 11/29/2006	Telephone: 202-566-0500
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 03/02/2007
Number of Days to Update: 43	Next Scheduled EDR Contact: 05/07/2007
	Data Release Frequency: Annually

### **MLTS:** Material Licensing Tracking System

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

Date of Government Version: 01/11/2007	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 01/26/2007	Telephone: 301-415-7169
Date Made Active in Reports: 02/27/2007	Last EDR Contact: 04/02/2007
Number of Days to Update: 32	Next Scheduled EDR Contact: 07/02/2007
	Data Release Frequency: Quarterly

### **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: 11/15/2006	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 12/28/2006	Telephone: 303-231-5959
Date Made Active in Reports: 01/29/2007	Last EDR Contact: 03/28/2007
Number of Days to Update: 32	Next Scheduled EDR Contact: 06/25/2007
	Data Release Frequency: Semi-Annually

### **FINDS:** Facility Index System/Facility Registry System

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

Date of Government Version: 01/18/2007	Source: EPA
Date Data Arrived at EDR: 01/23/2007	Telephone: (415) 947-8000
Date Made Active in Reports: 02/27/2007	Last EDR Contact: 04/02/2007
Number of Days to Update: 35	Next Scheduled EDR Contact: 07/02/2007
	Data Release Frequency: Quarterly

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### **RAATS: RCRA Administrative Action Tracking System**

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

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 03/05/2007
Number of Days to Update: 35	Next Scheduled EDR Contact: 06/04/2007
	Data Release Frequency: No Update Planned

### **BRS: Biennial Reporting System**

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

Date of Government Version: 12/31/2005	Source: EPA/NTIS
Date Data Arrived at EDR: 03/06/2007	Telephone: 800-424-9346
Date Made Active in Reports: 04/13/2007	Last EDR Contact: 03/06/2007
Number of Days to Update: 38	Next Scheduled EDR Contact: 06/11/2007
	Data Release Frequency: Biennially

### **STATE AND LOCAL RECORDS**

#### **SHWS: Sites List**

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

Date of Government Version: 07/24/2006	Source: Department of Health
Date Data Arrived at EDR: 07/27/2006	Telephone: 808-586-4249
Date Made Active in Reports: 08/30/2006	Last EDR Contact: 04/18/2007
Number of Days to Update: 34	Next Scheduled EDR Contact: 06/18/2007
	Data Release Frequency: Semi-Annually

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

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

Date of Government Version: 05/19/2004	Source: Department of Health
Date Data Arrived at EDR: 05/20/2004	Telephone: 808-586-4245
Date Made Active in Reports: 06/22/2004	Last EDR Contact: 04/25/2007
Number of Days to Update: 33	Next Scheduled EDR Contact: 07/23/2007
	Data Release Frequency: Varies

#### **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: 01/30/2007	Source: Department of Health
Date Data Arrived at EDR: 02/13/2007	Telephone: 808-586-4228
Date Made Active in Reports: 03/12/2007	Last EDR Contact: 03/30/2007
Number of Days to Update: 27	Next Scheduled EDR Contact: 06/25/2007
	Data Release Frequency: Semi-Annually

#### **UST: Underground Storage Tank Database**

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

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/30/2007  
Date Data Arrived at EDR: 02/13/2007  
Date Made Active in Reports: 03/21/2007  
Number of Days to Update: 36

Source: Department of Health  
Telephone: 808-586-4228  
Last EDR Contact: 03/30/2007  
Next Scheduled EDR Contact: 06/25/2007  
Data Release Frequency: Semi-Annually

### **SPILLS:** Release Notifications

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

Date of Government Version: 07/24/2006  
Date Data Arrived at EDR: 07/27/2006  
Date Made Active in Reports: 08/30/2006  
Number of Days to Update: 34

Source: Department of Health  
Telephone: 808-586-4249  
Last EDR Contact: 04/18/2007  
Next Scheduled EDR Contact: 06/18/2007  
Data Release Frequency: Varies

### **INST CONTROL:** Sites with Institutional Controls

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

Date of Government Version: 07/24/2006  
Date Data Arrived at EDR: 07/27/2006  
Date Made Active in Reports: 08/30/2006  
Number of Days to Update: 34

Source: Department of Health  
Telephone: 808-586-4249  
Last EDR Contact: 04/18/2007  
Next Scheduled EDR Contact: 06/18/2007  
Data Release Frequency: Varies

### **VCP:** Voluntary Response Program Sites

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

Date of Government Version: 07/24/2006  
Date Data Arrived at EDR: 07/27/2006  
Date Made Active in Reports: 08/30/2006  
Number of Days to Update: 34

Source: Department of Health  
Telephone: 808-586-4249  
Last EDR Contact: 04/18/2007  
Next Scheduled EDR Contact: 06/18/2007  
Data Release Frequency: Varies

### **DRYCLEANERS:** Permitted Drycleaner Facility Listing

A listing of permitted drycleaner facilities in the state.

Date of Government Version: 02/14/2007  
Date Data Arrived at EDR: 02/15/2007  
Date Made Active in Reports: 03/12/2007  
Number of Days to Update: 25

Source: Department of Health  
Telephone: 808-586-4200  
Last EDR Contact: 02/12/2007  
Next Scheduled EDR Contact: 04/30/2007  
Data Release Frequency: Varies

### **BROWNFIELDS:** Brownfields Sites

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

Date of Government Version: 07/24/2006  
Date Data Arrived at EDR: 07/27/2006  
Date Made Active in Reports: 08/30/2006  
Number of Days to Update: 34

Source: Department of Health  
Telephone: 808-586-4249  
Last EDR Contact: 04/18/2007  
Next Scheduled EDR Contact: 06/18/2007  
Data Release Frequency: Varies

### **AIRS:** List of Permitted Facilities

A listing of permitted facilities in the state.

Date of Government Version: 09/07/2006  
Date Data Arrived at EDR: 09/08/2006  
Date Made Active in Reports: 10/13/2006  
Number of Days to Update: 35

Source: Department of Health  
Telephone: 808-586-4200  
Last EDR Contact: 02/12/2007  
Next Scheduled EDR Contact: 04/30/2007  
Data Release Frequency: Varies

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### TRIBAL RECORDS

#### **INDIAN RESERV:** Indian Reservations

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

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 02/06/2006	Telephone: 202-208-3710
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 02/08/2007
Number of Days to Update: 339	Next Scheduled EDR Contact: 05/07/2007
	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.

Date of Government Version: 12/01/2006	Source: EPA Region 1
Date Data Arrived at EDR: 12/01/2006	Telephone: 617-918-1313
Date Made Active in Reports: 01/29/2007	Last EDR Contact: 02/19/2007
Number of Days to Update: 59	Next Scheduled EDR Contact: 05/21/2007
	Data Release Frequency: Varies

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

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 01/04/2005	Source: EPA Region 6
Date Data Arrived at EDR: 01/21/2005	Telephone: 214-665-6597
Date Made Active in Reports: 02/28/2005	Last EDR Contact: 02/19/2007
Number of Days to Update: 38	Next Scheduled EDR Contact: 05/21/2007
	Data Release Frequency: Varies

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

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

Date of Government Version: 08/24/2006	Source: EPA Region 4
Date Data Arrived at EDR: 09/11/2006	Telephone: 404-562-8677
Date Made Active in Reports: 11/08/2006	Last EDR Contact: 02/19/2007
Number of Days to Update: 58	Next Scheduled EDR Contact: 05/21/2007
	Data Release Frequency: Semi-Annually

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

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

Date of Government Version: 02/19/2007	Source: EPA Region 8
Date Data Arrived at EDR: 02/27/2007	Telephone: 303-312-6271
Date Made Active in Reports: 04/04/2007	Last EDR Contact: 02/19/2007
Number of Days to Update: 36	Next Scheduled EDR Contact: 05/21/2007
	Data Release Frequency: Quarterly

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

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

Date of Government Version: 03/01/2007	Source: EPA Region 10
Date Data Arrived at EDR: 03/01/2007	Telephone: 206-553-2857
Date Made Active in Reports: 04/04/2007	Last EDR Contact: 02/19/2007
Number of Days to Update: 34	Next Scheduled EDR Contact: 02/21/2007
	Data Release Frequency: Quarterly

#### **INDIAN LUST R9:** Leaking Underground Storage Tanks on Indian Land

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

Date of Government Version: 12/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/19/2006	Telephone: 415-972-3372
Date Made Active in Reports: 01/29/2007	Last EDR Contact: 02/19/2007
Number of Days to Update: 41	Next Scheduled EDR Contact: 05/21/2007
	Data Release Frequency: Quarterly

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### **INDIAN LUST R7:** Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 09/06/2006	Source: EPA Region 7
Date Data Arrived at EDR: 10/04/2006	Telephone: 913-551-7003
Date Made Active in Reports: 11/08/2006	Last EDR Contact: 02/19/2007
Number of Days to Update: 35	Next Scheduled EDR Contact: 05/21/2007
	Data Release Frequency: Varies

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

Date of Government Version: 08/24/2006	Source: EPA Region 4
Date Data Arrived at EDR: 09/11/2006	Telephone: 404-562-9424
Date Made Active in Reports: 11/08/2006	Last EDR Contact: 02/19/2007
Number of Days to Update: 38	Next Scheduled EDR Contact: 05/21/2007
	Data Release Frequency: Semi-Annually

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

Date of Government Version: 09/06/2006	Source: EPA Region 7
Date Data Arrived at EDR: 10/04/2006	Telephone: 913-551-7003
Date Made Active in Reports: 11/08/2006	Last EDR Contact: 02/19/2007
Number of Days to Update: 35	Next Scheduled EDR Contact: 05/21/2007
	Data Release Frequency: Varies

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

Date of Government Version: 02/19/2007	Source: EPA Region 8
Date Data Arrived at EDR: 02/27/2007	Telephone: 303-312-6137
Date Made Active in Reports: 04/04/2007	Last EDR Contact: 02/19/2007
Number of Days to Update: 36	Next Scheduled EDR Contact: 05/21/2007
	Data Release Frequency: Quarterly

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

Date of Government Version: 12/02/2004	Source: EPA Region 5
Date Data Arrived at EDR: 12/29/2004	Telephone: 312-886-6136
Date Made Active in Reports: 02/04/2005	Last EDR Contact: 02/19/2007
Number of Days to Update: 37	Next Scheduled EDR Contact: 05/21/2007
	Data Release Frequency: Varies

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

Date of Government Version: 03/01/2007	Source: EPA Region 10
Date Data Arrived at EDR: 03/01/2007	Telephone: 206-553-2857
Date Made Active in Reports: 04/04/2007	Last EDR Contact: 02/19/2007
Number of Days to Update: 34	Next Scheduled EDR Contact: 05/21/2007
	Data Release Frequency: Quarterly

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

A listing of underground storage tank locations on Indian Land.

Date of Government Version: 12/01/2006	Source: EPA, Region 1
Date Data Arrived at EDR: 12/01/2006	Telephone: 617-918-1313
Date Made Active in Reports: 01/29/2007	Last EDR Contact: 02/19/2007
Number of Days to Update: 59	Next Scheduled EDR Contact: 05/21/2007
	Data Release Frequency: Varies

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

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/11/2007  
Date Data Arrived at EDR: 01/12/2007  
Date Made Active in Reports: 01/29/2007  
Number of Days to Update: 17

Source: EPA Region 6  
Telephone: 214-665-7591  
Last EDR Contact: 02/19/2007  
Next Scheduled EDR Contact: 05/21/2007  
Data Release Frequency: Semi-Annually

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

Date of Government Version: 12/19/2006  
Date Data Arrived at EDR: 12/19/2006  
Date Made Active in Reports: 01/29/2007  
Number of Days to Update: 41

Source: EPA Region 9  
Telephone: 415-972-3368  
Last EDR Contact: 02/19/2007  
Next Scheduled EDR Contact: 05/21/2007  
Data Release Frequency: Quarterly

### **EDR PROPRIETARY RECORDS**

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

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

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

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

### **OTHER DATABASE(S)**

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

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

#### **Electric Power Transmission Line Data**

Source: PennWell Corporation  
Telephone: (800) 823-6277

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

#### **AHA Hospitals:**

Source: American Hospital Association, Inc.  
Telephone: 312-280-5991

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

#### **Medical Centers: Provider of Services Listing**

Source: Centers for Medicare & Medicaid Services  
Telephone: 410-786-3000

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

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### **Nursing Homes**

Source: National Institutes of Health

Telephone: 301-594-6248

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

### **Public Schools**

Source: National Center for Education Statistics

Telephone: 202-502-7300

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

### **Private Schools**

Source: National Center for Education Statistics

Telephone: 202-502-7300

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

**Flood Zone Data:** This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

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

### **STREET AND ADDRESS INFORMATION**

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## GEOCHECK® - PHYSICAL SETTING SOURCE ADDENDUM

### TARGET PROPERTY ADDRESS

O OKALA BALL PARK AND GYM  
39-3200 NIU VILLAGE ROAD  
OOKALA, HI 96774

### TARGET PROPERTY COORDINATES

Latitude (North):	20.01030 - 20° 0' 37.1"
Longitude (West):	155.2722 - 155° 16' 19.9"
Universal Transverse Mercator:	Zone 5
UTM X (Meters):	262279.8
UTM Y (Meters):	2214103.0
Elevation:	376 ft. above sea level

### USGS TOPOGRAPHIC MAP

Target Property Map:	20155-A3 KUKAIAU, HI
Most Recent Revision:	Not reported
South Map:	19155-H3 KEANAKOLU, 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).

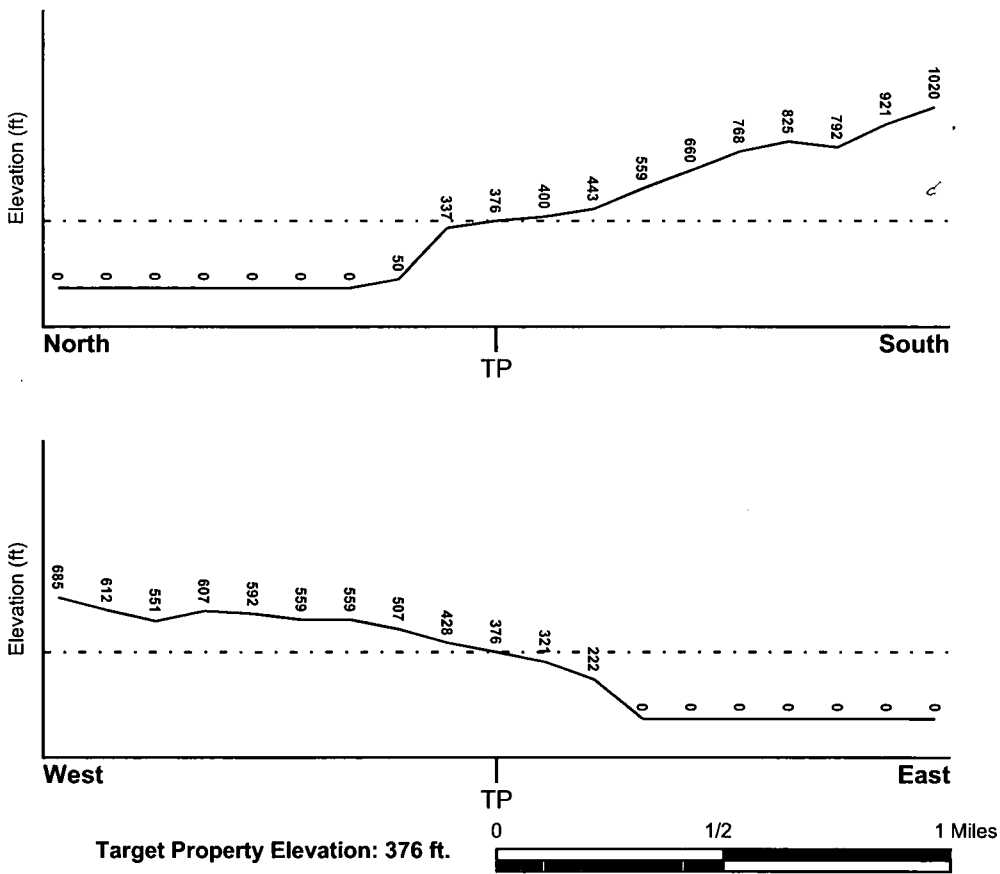
## TOPOGRAPHIC INFORMATION

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 NNE

## 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  
HAWAII, HI

FEMA Flood  
Electronic Data  
YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 1551660250C

Additional Panels in search area: 1551660400C

### NATIONAL WETLAND INVENTORY

NWI Quad at Target Property  
KUKAIAU

NWI Electronic  
Data Coverage  
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 date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

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

## **GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY**

### **GROUNDWATER FLOW VELOCITY INFORMATION**

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

### **GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY**

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

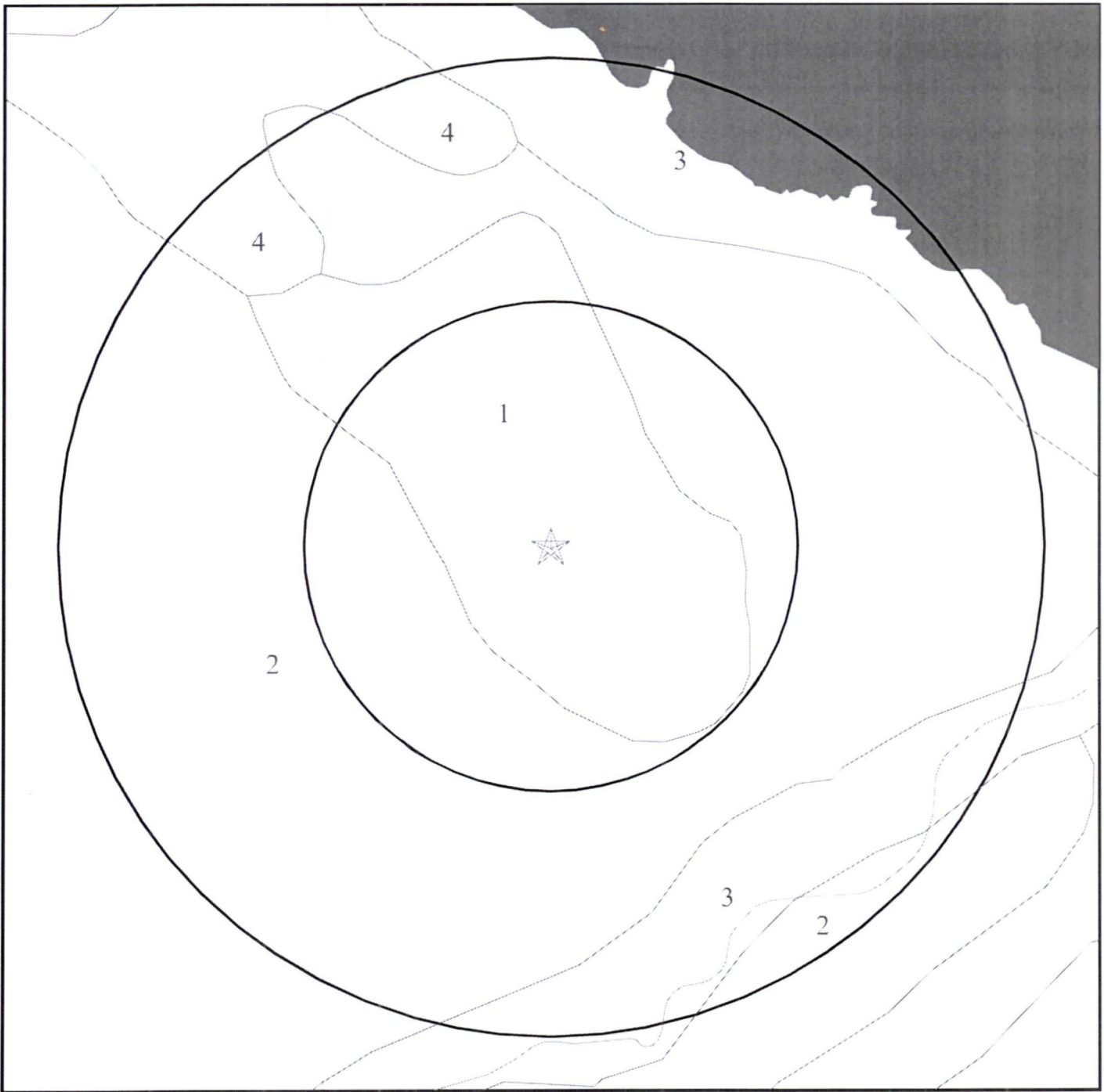
#### **ROCK STRATIGRAPHIC UNIT**

#### **GEOLOGIC AGE IDENTIFICATION**

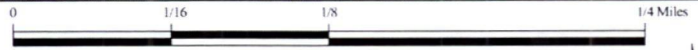
Era:	-	Category:	-
System:	-		
Series:	-		
Code:	N/A		( <i>decoded above as Era, System &amp; Series</i> )

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

# SSURGO SOIL MAP - 1911866.2s



- ★ Target Property
- ∩ SSURGO Soil
- ∩ Water



SITE NAME: O Okala Ball Park and Gym  
ADDRESS: 39-3200 Niu Village Road  
Ookala HI 96774  
LAT/LONG: 20.0103 / 155.2722

CLIENT: ERM  
CONTACT: Ashley Kerr  
INQUIRY #: 1911866.2s  
DATE: April 25, 2007 6:59 pm

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

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

#### Soil Map ID: 1

Soil Component Name: OLAA

Soil Surface Texture: silty clay loam

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

Soil Drainage Class: Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 40 inches

Depth to Bedrock Max: > 60 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	8 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Thixotropic suffix for OH.	Max: 20.00 Min: 6.00	Max: 6.50 Min: 5.60
2	8 inches	25 inches	very stony - silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Thixotropic suffix for OH.	Max: 20.00 Min: 6.00	Max: 6.50 Min: 5.60
3	25 inches	35 inches	fragmental material	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Clean gravels, Poorly Graded Gravel.	Max: 20.00 Min: 20.00	Max: 6.50 Min: 5.60

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**Soil Map ID: 2**

Soil Component Name: OOKALA

Soil Surface Texture: silty clay loam

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

Soil Drainage Class: Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: MODERATE

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	12 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Thixotropic suffix for MH	Max: 20.00 Min: 6.00	Max: 6.50 Min: 5.10
2	12 inches	55 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Thixotropic suffix for MH	Max: 20.00 Min: 6.00	Max: 6.50 Min: 5.10
3	55 inches	60 inches	fragmental material	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Clean gravels, Poorly Graded Gravel.	Max: 20.00 Min: 20.00	Max: 6.50 Min: 6.10

**Soil Map ID: 3**

Soil Component Name: ROUGH BROKEN LAND

Soil Surface Texture: 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. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 15 inches

Depth to Bedrock Max: > 60 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	10 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Thixotropic suffix for MH	Max: 20.00 Min: 2.00	Max: 5.00 Min: 4.50
2	10 inches	30 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Thixotropic suffix for MH	Max: 20.00 Min: 2.00	Max: 6.00 Min: 5.10
3	30 inches	60 inches	weathered bedrock	Not reported	Not reported	Max: 6.00 Min: 0.10	Max: 0.00 Min: 0.00

### Soil Map ID: 4

Soil Component Name: OOKALA

Soil Surface Texture: silty clay loam

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

Soil Drainage Class: Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: MODERATE

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	12 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Thixotropic suffix for MH	Max: 20.00 Min: 6.00	Max: 6.50 Min: 5.10
2	12 inches	55 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Thixotropic suffix for MH	Max: 20.00 Min: 6.00	Max: 6.50 Min: 5.10
3	55 inches	60 inches	fragmental material	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Clean gravels, Poorly Graded Gravel.	Max: 20.00 Min: 20.00	Max: 6.50 Min: 6.10

### LOCAL / REGIONAL WATER AGENCY RECORDS

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

### WELL SEARCH DISTANCE INFORMATION

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

### FEDERAL USGS WELL INFORMATION

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

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

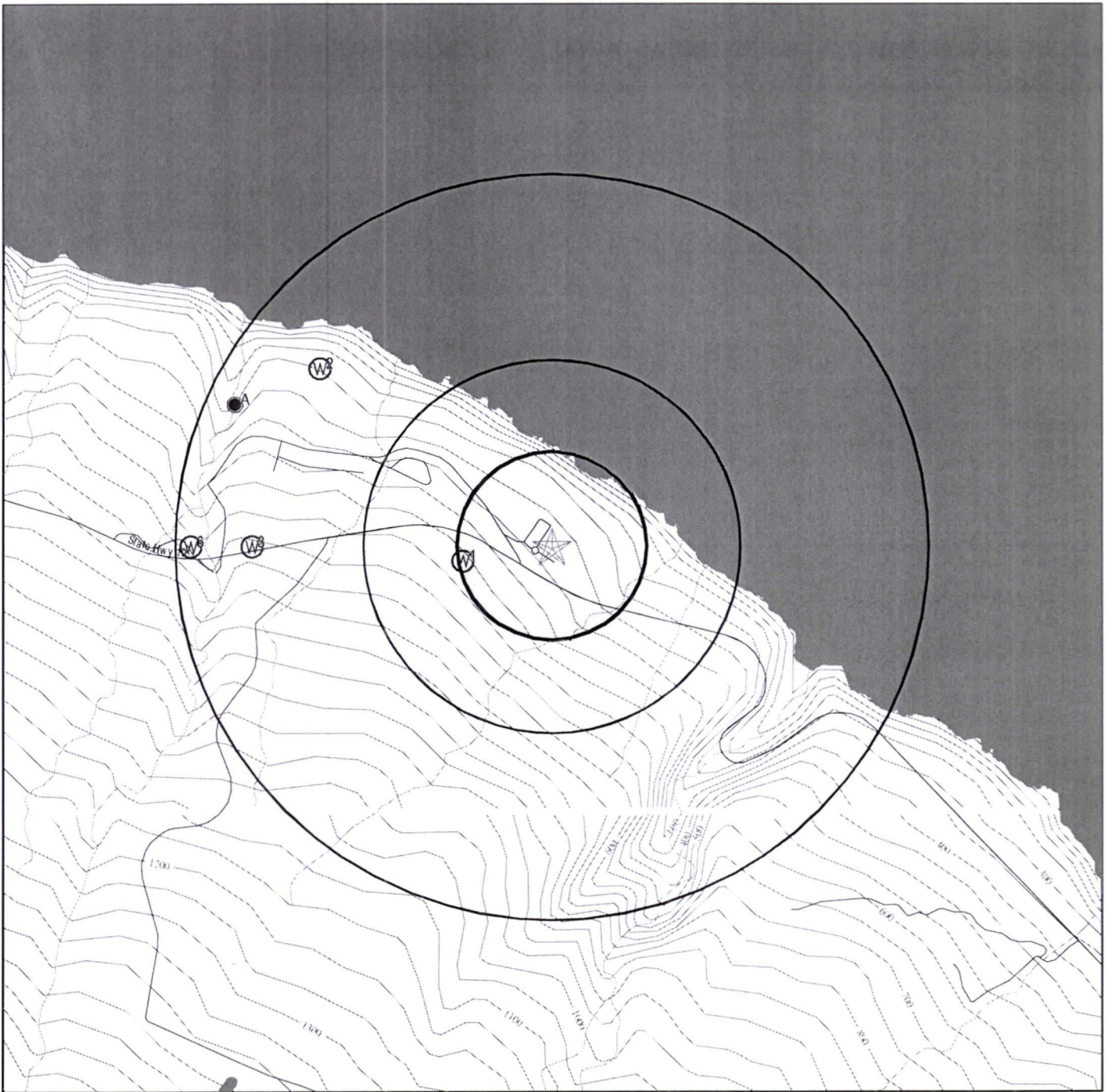
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A5	HI0000122	1/2 - 1 Mile WNW

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

### STATE DATABASE WELL INFORMATION

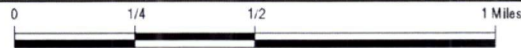
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	HI2000000003982	1/8 - 1/4 Mile West
2	HI2000000000017	1/2 - 1 Mile NW
3	HI2000000003987	1/2 - 1 Mile West
A4	HI2000000004002	1/2 - 1 Mile WNW
6	HI2000000003986	1/2 - 1 Mile West

# PHYSICAL SETTING SOURCE MAP - 1911866.2s



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

- ↑ Groundwater Flow Direction
- ⊙(I) Indeterminate Groundwater Flow at Location
- ⊙(V) Groundwater Flow Varies at Location



**SITE NAME:** O Okala Ball Park and Gym  
**ADDRESS:** 39-3200 Niu Village Road  
 Ookala HI 96774  
**LAT/LONG:** 20.0103 / 155.2722

**CLIENT:** ERM  
**CONTACT:** Ashley Kerr  
**INQUIRY #:** 1911866.2s  
**DATE:** April 25, 2007 6:59 pm

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**1**  
**West**  
**1/8 - 1/4 Mile**  
**Higher**

**HI WELLS      HI2000000003982**

Well id:	8-6016-001	Island:	8
Well #:	6016-01	Well name:	Island Dairy
Old name:	Not Reported	Yr drilled:	2001
Driller:	TURNER DRLG	Quad map:	52
Longitude2:	1551643	Latitude27:	200046
Longitude8:	1551633	Latitude83:	200035
Long83dd:	-155.27583		
Lat83dd:	20.00972		
Gps:	0	Utm:	1
Owner user:	Island Dairy Inc	Old number:	Not Reported
Well type:	ROT	Casing dia:	8
Elevation:	538	Well depth:	600
Solid casing Depth:	560	Perfor. casing:	600
Use:	UNU	Use year:	01
Init water:	Not Reported		
Init head:	10.07		
Init chloride:	Not Reported		
Current chloride:	60		
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chloride:	Not Reported
Test temp:	Not Reported	Temp units:	Not Reported
Pump gpm:	0		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chloride:	Not Reported	Min chloride:	Not Reported
Geology:	Not Reported	Pump yr:	Not Reported
Draft yr:	Not Reported	Head yr:	Not Reported
Max chl:	Not Reported	Max chl yr:	Not Reported
Min chl:	Not Reported	Min chl yr:	Not Reported
Bot hole:	-62	Bot solid:	-22
Bot perf:	-62	Spec capac:	Not Reported
Pump mgd:	Not Reported	Draft mgd:	Not Reported
Aquifer:	Not Reported	Tmk:	3-9-001:002
Old aquifer:	Not Reported	Aquifer code:	80202
Latest head:	0		
Current head:	Not Reported	Current chloride:	Not Reported
Current temp:	Not Reported	Wcr:	Not Reported
Pir:	Not Reported	Surveyor:	GEORGE YOSHIMUR
Transmissivity:	0		
Pump elev:	Not Reported	Pump depth:	Not Reported

**2**  
**NW**  
**1/2 - 1 Mile**  
**Lower**

**HI WELLS      HI2000000000017**

Well id:	8-6116-001	Island:	8
Well #:	6116-01	Well name:	D & D
Old name:	Not Reported	Yr drilled:	2006
Driller:	Not Reported	Quad map:	51
Longitude2:	1551704	Latitude27:	200113
Longitude8:	1551654	Latitude83:	200102
Long83dd:	0		
Lat83dd:	0		
Gps:	1	Utm:	0
Owner user:	Not Reported	Old number:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well type:	ROT	Casing dia:	6
Elevation:	Not Reported	Well depth:	280
Solid casing Depth:	260	Perfor. casing:	280
Use:	DOM	Use year:	06
Init water:	Not Reported		
Init head:	0		
Init chloride:	Not Reported		
Current chloride:	0		
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chloride:	Not Reported
Test temp:	Not Reported	Temp units:	Not Reported
Pump gpm:	10		
Draft mgy:	Not Reported	Head feet:	Not Reported
Max chloride:	Not Reported	Min chloride:	Not Reported
Geology:	PML	Pump yr:	06
Draft yr:	Not Reported	Head yr:	Not Reported
Max chl:	Not Reported	Max chl yr:	Not Reported
Min chl:	Not Reported	Min chl yr:	Not Reported
Bot hole:	Not Reported	Bot solid:	Not Reported
Bot perf:	Not Reported	Spec capac:	Not Reported
Pump mgd:	.014	Draft mgd:	Not Reported
Aquifer:	Not Reported	Tmk:	3-9-001:024
Old aquifer:	Not Reported	Aquifer code:	80202
Latest head:	0		
Current head:	Not Reported	Current chloride:	Not Reported
Current temp:	Not Reported	Wcr:	Not Reported
Pir:	Not Reported	Surveyor:	Not Reported
Transmissivity:	0		
Pump elev:	Not Reported	Pump depth:	270

3  
West  
1/2 - 1 Mile  
Higher

HI WELLS      HI2000000003987

Well id:	8-6017-005	Island:	8
Well #:	6017-05	Well name:	Ookala
Old name:	Not Reported	Yr drilled:	1995
Driller:	WAI ELI DRLG	Quad map:	52
Longitude2:	1551714	Latitude27:	200048
Longitude8:	1551704	Latitude83:	200037
Long83dd:	-155.28444		
Lat83dd:	20.01028		
Gps:	0	Utm:	1
Owner user:	Hawaii DWS	Old number:	Not Reported
Well type:	ROT	Casing dia:	12
Elevation:	641	Well depth:	700
Solid casing Depth:	637	Perfor. casing:	700
Use:	MUNCO	Use year:	96
Init water:	Not Reported		
Init head:	7.67		
Init chloride:	Not Reported		
Current chloride:	10		
Test date:	06/12/1995 00:00:00	Test gpm:	470
Test ddown:	1.4	Test chloride:	10

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Test temp:	20.0	Temp units:	C
Pump gpm:	250	Head feet:	Not Reported
Draft mgy:	Not Reported	Min chloride:	Not Reported
Max chloride:	Not Reported	Pump yr:	96
Geology:	Not Reported	Head yr:	Not Reported
Draft yr:	Not Reported	Max chl yr:	0
Max chl:	Not Reported	Min chl yr:	0
Min chl:	Not Reported	Bot solid:	4
Bot hole:	-59	Spec capac:	336
Bot perf:	-59	Draft mgd:	Not Reported
Pump mgd:	.36	Tmk:	3-9-001:034
Aquifer:	Not Reported	Aquifer code:	80202
Old aquifer:	Not Reported	Current chloride:	Not Reported
Latest head:	0	Wcr:	10/31/1995 00:00:00
Current head:	Not Reported	Surveyor:	Not Reported
Current temp:	Not Reported	Pump depth:	663
Pir:	10/11/1996 00:00:00		
Transmissivity:	474239		
Pump elev:	-22		

**A4**  
**WNW**  
**1/2 - 1 Mile**  
**Lower**

**HI WELLS      HI200000004002**

Well id:	8-6117-001	Island:	8
Well #:	6117-01	Well name:	Ookala Shaft
Old name:	Not Reported	Yr drilled:	1937
Driller:	Not Reported	Quad map:	52
Longitude2:	1551716	Latitude27:	200108
Longitude8:	1551706	Latitude83:	200057
Long83dd:	-155.285		
Lat83dd:	20.01583		
Gps:	0	Utm:	1
Owner user:	Laupahoehoe Su	Old number:	6-SH
Well type:	SHF	Casing dia:	Not Reported
Elevation:	300	Well depth:	600
Solid casing Depth:	Not Reported	Perfor. casing:	Not Reported
Use:	IND	Use year:	72
Init water:	6.0		
Init head:	6		
Init chloride:	10		
Current chloride:	10		
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chloride:	Not Reported
Test temp:	17.8	Temp units:	C
Pump gpm:	2500		
Draft mgy:	1940	Head feet:	6.0
Max chloride:	279	Min chloride:	4
Geology:	PML	Pump yr:	46
Draft yr:	76	Head yr:	61
Max chl:	01/01/1972 00:00:00	Max chl yr:	72
Min chl:	01/01/1946 00:00:00	Min chl yr:	72
Bot hole:	-300	Bot solid:	Not Reported
Bot perf:	Not Reported	Spec capac:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pump mgd:	3.57	Draft mgd:	5.3
Aquifer:	80202	Tmk:	Not Reported
Old aquifer:	Not Reported	Aquifer code:	80202
Latest head:	6	Current chloride:	Not Reported
Current head:	Not Reported	Wcr:	01/01/1937 00:00:00
Current temp:	Not Reported	Surveyor:	Not Reported
Pir:	Not Reported	Pump depth:	Not Reported
Transmissivity:	0		
Pump elev:	Not Reported		

**A5**  
**WNW**  
**1/2 - 1 Mile**  
**Lower**

**FRDS PWS      HI0000122**

PWS ID:	HI0000122	PWS Status:	Active
Date Initiated:	7706	Date Deactivated:	Not Reported
PWS Name:	HAMAKUA OOKALA HAMAKUA SUGAR COMPANY OOKALA, HI 96774		

Addressee / Facility:      Operator  
MR. WILLIAM FOLI  
HAMAKUA SUGAR CO.  
P.O. BOX 250  
PAAUILO, HI 96776

Facility Latitude:	20 1 8.0000	Facility Longitude:	155 17 17.0000
City Served:	OOKALA	Population:	00000200
Treatment Class:	Treated		

Violations information not reported.

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

**HI WELLS      HI2000000003986**

Well id:	8-6017-004	Island:	8
Well #:	6017-04	Well name:	Kaula Gulch Tun4
Old name:	Not Reported	Yr drilled:	Not Reported
Driller:	Not Reported	Quad map:	52
Longitude2:	1551723	Latitude27:	200048
Longitude8:	1551713	Latitude83:	200037
Long83dd:	-155.28694		
Lat83dd:	20.01028		
Gps:	0	Utm:	1
Owner user:	Laupahoehoe Su	Old number:	49-TU
Well type:	TUN	Casing dia:	Not Reported
Elevation:	640	Well depth:	Not Reported
Solid casing Depth:	Not Reported	Perfor. casing:	Not Reported
Use:	UNU	Use year:	Not Reported
Init water:	Not Reported		
Init head:	0		
Init chloride:	Not Reported		
Current chloride:	0		
Test date:	Not Reported	Test gpm:	Not Reported
Test ddown:	Not Reported	Test chloride:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Test temp:	Not Reported	Temp units:	Not Reported
Pump gpm:	0	Head feet:	Not Reported
Draft mgy:	Not Reported	Min chloride:	Not Reported
Max chloride:	Not Reported	Pump yr:	Not Reported
Geology:	PML	Head yr:	Not Reported
Draft yr:	Not Reported	Max chl yr:	0
Max chl:	Not Reported	Min chl yr:	0
Min chl:	Not Reported	Bot solid:	Not Reported
Bot hole:	Not Reported	Spec capac:	Not Reported
Bot perf:	Not Reported	Draft mgd:	Not Reported
Pump mgd:	Not Reported	Tmk:	Not Reported
Aquifer:	80202	Aquifer code:	80202
Old aquifer:	Not Reported	Current chloride:	Not Reported
Latest head:	0	Wcr:	Not Reported
Current head:	Not Reported	Surveyor:	Not Reported
Current temp:	Not Reported	Pump depth:	Not Reported
Pir:	Not Reported		
Transmissivity:	0		
Pump elev:	Not Reported		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

## AREA RADON INFORMATION

Federal EPA Radon Zone for HAWAII 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 HAWAII COUNTY, HI

Number of sites tested: 97

<u>Area</u>	<u>Average Activity</u>	<u>% &lt;4 pCi/L</u>	<u>% 4-20 pCi/L</u>	<u>% &gt;20 pCi/L</u>
Living Area - 1st Floor	0.054 pCi/L	99%	1%	0%
Living Area - 2nd Floor	1.100 pCi/L	100%	0%	0%
Basement	-0.247 pCi/L	100%	0%	0%

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

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

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

## HYDROLOGIC INFORMATION

**Flood Zone Data:** This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

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

## HYDROGEOLOGIC INFORMATION

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

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

## GEOLOGIC INFORMATION

### **Geologic Age and Rock Stratigraphic Unit**

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

### **STATSGO: State Soil Geographic Database**

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

### **SSURGO: Soil Survey Geographic Database**

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)  
Telephone: 800-672-5559  
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

## 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.

## PHYSICAL SETTING SOURCE RECORDS SEARCHED

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

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

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

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

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

### **STATE RECORDS**

#### **Well Index Database**

Source: Department of Land and Natural Resources

Telephone: 808-587-0214

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

### **OTHER STATE DATABASE INFORMATION**

#### **RADON**

##### **Area Radon Information**

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey.

The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

##### **EPA Radon Zones**

Source: EPA

Telephone: 703-356-4020

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

#### **OTHER**

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

Source: Federal Aviation Administration, 800-457-6656

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

Source: Department of Commerce, National Oceanic and Atmospheric Administration

### **STREET AND ADDRESS INFORMATION**

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*Appendix C*  
*Site and User – Supplied*  
*Information*

## USER QUESTIONNAIRE FOR PHASE I ADDITIONAL INQUIRIES

To: TONY GOMEZA

From: Ashley Kerr

At:

At: ERM - West, Inc.

Fax:

Pages: 2

Phone: 808-756-3922 (cell)  
808-962-6938 (home)

Date: 5/8/07

Site Name: O'okala Ball Park and Gym

Address: 39-3200 Niu Village Road, O'okala 96774

The person who will use the Phase I must perform the additional inquiries set forth below, and/or have ERM perform them, to satisfy the standards for conducting all appropriate inquiry pursuant to 40 C.F.R. Part 312. Failure to perform or have the additional inquiries performed will disqualify the User from the innocent landowner, contiguous owner and prospective purchaser defenses under CERCLA. If you choose to perform the inquiry, you have the choice of providing the information obtained from the inquiry to ERM. If you choose not to provide the information to ERM or fail to perform the additional inquiry, ERM will identify the lack of that information as a data gap in the Phase I report.

Please fill in the form below to identify whether you have performed the additional inquiry, whether you will share that information with ERM or whether you request ERM to perform the additional inquiry.

### 1. Environmental Cleanup Liens.

Have you searched for the existence of environmental cleanup liens against the subject property that are filed or recorded under federal, tribal, state or local law?  Yes  No

If yes, do you want to share that information with ERM?  Yes  No

If yes, please provide the results of the search on a separate page.

If no, do you want ERM to perform the search?  Yes  No

Have you retained the results of this search in your records?  Yes  No

### 2. Specialized Knowledge.

Do you have any specialized knowledge of the subject property, the conditions of adjoining properties, and any other experience relevant to the inquiry for purposes of identifying conditions indicative of releases or threatened releases at the subject property.  Yes  No

If yes, do you want to share that information with ERM?  Yes  No

If yes, please describe that specialized knowledge on a separate page.

Have you documented that specialized knowledge in your records?  Yes  No

3. **Relationship of Purchase Price to Fair Market Value**

Do you know the relationship of the purchase price of the subject property to the value of the property if uncontaminated?

Yes  No

If yes, do you want to share that information with ERM?

Yes  No

If yes, on a separate page please document the information you considered, whether there is a difference in price, and if so, whether the difference in price is due to the presence of releases or threatened releases on the subject property.

Have you documented this inquiry in your records?

Yes  No

4. **Commonly Known or Reasonably Ascertainable Information**

Have you taken into account commonly known or reasonably ascertainable information within the local community about the subject property?

Yes  No

If yes, do you want to share that information with ERM?

Yes  No

If yes, on a separate page please describe that commonly known or reasonably ascertainable information.

Have you documented that information in your records?

Yes  No

Please note that ERM has an independent obligation to perform this additional inquiry.

5. **Degree of Obviousness and Ability to Detect Contamination**

Have you considered the information gathered in performing all appropriate inquiry in considering the degree of obviousness and ability to detect contamination at the subject property?

Yes  No

If yes, do you want to share that information with ERM?

Yes  No

If yes, on a separate page, describe what information you took into account regarding the degree of obviousness and ability to detect contamination.

Have you documented that information in your records?

Yes  No

Please note that ERM has an independent obligation to perform this additional inquiry.

*Antonia Gamble*  
Your Signature

5/8/07  
Date

# of separate sheets attached: \_\_\_\_\_  
Explain Yes answers on a separate sheet.

# ENVIRONMENTAL QUESTIONNAIRE

AS REQUIRED by ASTM Standard E1527-05

To: ANTONIO GOMEZA From: Ashley Kerr  
 At: \_\_\_\_\_ At: ERM - West, Inc.  
 Fax: \_\_\_\_\_ Pages: 2  
 Phone: 808-56-3922 (cell) Date: 5/8/07  
808-962-6938 (home)  
 Site Name: O'okala Ball Park and Gym  
 Address: 39-3200 Niu Village Road, O'okala 96774

The Site Owner and Key Site Manager should provide the following information. Please fill in this form to the best of your ability, explaining any Yes answers on a separate sheet of paper. Please provide the completed question prior to the site visit.

1. **Environmental Cleanup Liens.** ASTM requires the User to check for environmental liens that may be filed or recorded against the subject property under federal, tribal, state or local law. Such liens might be listed in the "exceptions to coverage" in the property's title insurance commitment or policy.

Have you checked for these environmental cleanup liens?  Yes  No  
 Are you aware of any such liens against the subject property?  Yes  No

2. **Activity and Use Limitations (AULs).** These include engineering controls (e.g., slurry walls, caps) and land use restrictions or institutional controls (e.g., deed restrictions, covenants) that may be in place at the site or filed under federal, tribal, state or local law. The title commitment or policy might also list AULs.

Are you aware of any possible AULs involving the subject site?  Yes  No

3. **Specialized Knowledge.** This involves personal knowledge or experience related to the subject property or nearby properties. For example, if you are involved in the same line of business as the current or former occupants of the property or an adjoining property, you would probably know of any chemicals, oil, degreasers, gasoline, or other hazardous substances commonly used in that type of business.

Do you have any specialized knowledge that might indicate the past or present use or release of such substances on the subject or nearby properties?  Yes  No

4. **Obvious Indicators.** This involves past or present spills, stains, releases, cleanups, etc. on or near the site.

Do you know of any obvious indicators of possible contamination on or near the site?  Yes  No

5. **Common Knowledge.** Please use a separate sheet if necessary.

a. Describe the past uses of the property: Community gathering, sports activities

b. Describe any specific chemicals that may have been present at the property: Lead base paint

c. Describe any historical releases, leaking tanks, hazardous material responses, flooding, or fires at the subject property: NONE

d. Describe any other information that may help us identify possible contamination: \_\_\_\_\_

6. **Previous Owners/Occupants of the Property.** Please list previous owners, operators, and/or occupants and their contact information, if available. Honolulu Sugar Co

7. **Historical USTs at the Property.**

Have there been any USTs at the property in the past?  Yes  No

8. **Historical Water Use Wells at the Property.**

Have there been groundwater monitoring wells or water use wells at the Property?  Yes  No

9. **Artificial fill or dumping at the Property.**

Has artificial fill or dumping taken place at the property? *abandon cars*  Yes  No

10. **Historical Utilities at the Property.**

Have utilities changed at the property (i.e. septic system or private well)? *Water Source*  Yes  No

*Antonio D. Gromm*  
Your Signature

*5/8/07*  
Date

# of separate sheets attached: \_\_\_\_\_  
Explain Yes answers on a separate sheet.



TERRITORY OF HAWAII  
TAX COMMISSIONER  
CADASTRAL MAPS BUREAU

SOURCE:		LOC. & TITLE:		1953	DIV.			
		Ookala, N Hilo Grant 10449 etc			3	9	01	11
BY: TH	DATE: 12/23/53	DEED, ETC.:		TMB NO. ✓				
BY:	DATE:							
NO.	GRANTOR, ETC.	AREA OF PARCEL	GRANTEE, ETC.					
1	As shown on Tax Maps	38.18 ac	Kaiwiki Sugar Co Ltd					
2	TMB M-225 53, 3901-2, LM R/S: Subd as per survey for Hawaii Belt Road S D R 3 (18). F/D: 3901-11, Subd, etc. Grant 10449 et al Ookala, N Hilo 12/23/53	38.18 ac	- do -					
3	TMB 1626 53, 2/2, 3901-1, LM R/S: Right of Entry dated 12/1/53 over Rd For 4 & 5, granted to T H by Kaiwiki Sugar Co Ltd. F/D: 3901-11, Right of Entry, Grant 10449 et al, Ookala, N Hilo. 12/28/53	38.18 ac	- do -					
4	TMB #328'54 (3901-Road) JY 5/26/54 D: To new par 3901-32 11.462 ac Kaiwiki Sugar Co, Ltd To: T. H. (3.444 ac); dropped into road. Inst 172340 BK 2809 p 121 Cons: \$3960.50 RS: \$4.40 3/15/54 4/6/54 Dea F/D: 3901-11 Area & bdry, per Gr 10449	23.274 ac	Kaiwiki Sugar Co, Ltd.					
5	TMB #2'57 (3901-1 etc) JY 6/28/57 Cert/Marker: Kaiwiki Sugar Co, Ltd Bk 3205 p 415 Cons: None RS: None 1/3/57 1/3/57	23.274 ac	To: Laupshoehoe Sugar Company					

NOTE: LAST AREA & GRANTEE FINAL DATA AS SHOWN ON TAX MAPS



RECORDATION REQUESTED BY:  
Jenks, Kidwell, Goodsill & Anderson

AFTER RECORDATION, RETURN TO:  
Jenks, Kidwell, Goodsill & Anderson  
P. O. Box 3196  
Honolulu, Hawaii

RETURN BY: MAIL ( ) PICKUP

73- 2605

STATE OF HAWAII  
BUREAU OF CONDEMNATION  
RECEIVED FOR RECORD  
LIBER 8865 PAGE 428

1973 JAN 11 PM 3:17

*L. S. Pollock*  
INDEXED REGISTRAR

SPACE ABOVE THIS LINE FOR REGISTRAR'S USE

CERTIFIED COPY OF CERTIFICATE OF MERGER

of

HAWAIIAN AGRICULTURAL COMPANY

and

HUTCHINSON SUGAR COMPANY, LIMITED

with and into

KA'U SUGAR COMPANY, INC.

JENKS, KIDWELL, GOODSILL & ANDERSON  
1600 Castle & Cooke Building  
Honolulu, Hawaii

STATE OF HAWAII  
DEPARTMENT OF REGULATORY AGENCIES  
Honolulu

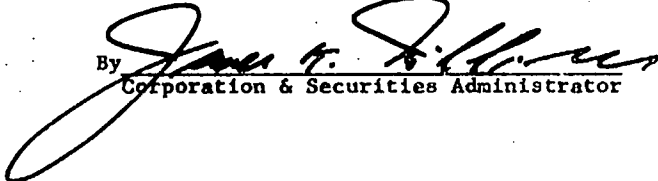
CERTIFICATE OF MERGER

I, EDWIN H. HONDA, Director of Regulatory Agencies of the State of Hawaii, do hereby certify that pursuant to the Certificate of Ownership and Merger of KA'U SUGAR COMPANY, INC., a Hawaii corporation, filed in this Department on December 29, 1972, in accordance with the provisions of Section 417-42 of the Hawaii Revised Statutes, HAWAIIAN AGRICULTURAL COMPANY and HUTCHINSON SUGAR COMPANY, LIMITED, both Hawaii corporations, were merged with and into KA'U SUGAR COMPANY, INC. on December 29, 1972, at 11:59 P.M.

IN WITNESS WHEREOF, I have hereunto  
set my hand and affixed the seal of  
the Department of Regulatory Agencies,  
at Honolulu, State of Hawaii, this  
4th day of January, 1973.



Director of Regulatory Agencies

By   
Corporation & Securities Administrator

# Hawai'i Notices

OCTOBER 23, 2001

## Final Environmental Assessments/Findings of No Significant Impacts (FONSI)



### (1) 'O'okala Community Center and Plantation Market Place Project

**District:** Hamakua  
**TMK:** 3-9-1:11  
**Applicant:** Hamakua Diversified Agricultural Association  
 P.O. Box 369  
 Pa'aulló, Hawai'i 96776  
 Contact: Valerie Poindexter (776-1459)

**Approving Agency/Accepting Authority:** County of Hawai'i  
 Department of Parks and Recreation  
 25 Aupuni Street, Room 210  
 Hilo, Hawai'i 96720

**Consultant:** Contact: Glenna Miyao (961-8311)  
 Brian T. Nishimura (935-7692)  
 101 Aupuni Street, #217  
 Hilo, Hawai'i 96720

**Status:** FEA/FONSI issued, project may proceed.  
**Permits Required:** Underground injection control, construction plans approval

include two paved parking stalls, one handicapped parking stall and an accessible walkway.

Funding for the first phase improvements have been secured from the Community Development Block Grant (CDBG) Program in the amount of \$250,000 as well as private foundation grants in the amount of \$45,000. Construction of the first phase is scheduled to begin in November 2001 and be completed by March 2002.

The Hamakua Diversified Agricultural Association (HDAA) is proposing to lease a 16,123 acre parcel known as the former 'O'okala Gym and Annex Parcel from the County of Hawai'i, Department of Parks and Recreation. The 'O'okala Community Center and Plantation Market Place is being proposed as a multi-purpose center for the 'O'okala community that will include a community center, post office, multi-use production facility for farmers, local artists, crafts people and others producing local products.

The proposed project will be developed in several phases. The first phase will involve the renovation of an annex building on the south side of the gym. The existing structure, with an area of approximately 1,450 square feet, was last used as a dormitory to house single Hamakua Sugar employees and contains nine bedrooms and a bathroom/restroom facility. The renovation will convert the space into a post office, a conference room, small kitchen and men's and women's restrooms. The first phase improvements will also

### List of Electronic EISs

- Diamond Head State Monument
- East Kapolei Master Plan
- Block J Redevelopment Project
- Hanalei Bay Nature Preserve
- O'ahu Commercial Harbor 2020 Master Plan
- Waipio Peninsula Soccer Park
- Hawai'i Convention center
- Ka Iwi State Park Master Plan
- Kaka'ako-Makai Area Plan
- Nanakuli 242 Reservoir
- Saddle Road
- Urban Expansion of State Lands in North Kona
- Ma'alea Harbor for Light-Draft Vessels
- Mauna Kea Science Reserve Master Plan
- University of Hawai'i at Hilo University Park
- Kahului Airport
- Pacific Missile Range Facility

**DRAFT ENVIRONMENTAL ASSESSMENT AND  
ANTICIPATED FINDING OF NO SIGNIFICANT IMPACT**

**OOKALA COMMUNITY CENTER AND PLANTATION  
MARKET PLACE PROJECT**

Ookala, North Hilo, Hawaii

July 2001

PREPARED FOR:  
HAMAKUA DIVERSIFIED AGRICULTURAL ASSOCIATION

P.O. BOX 369  
PAAUILO, HAWAII 96776

PREPARED BY:  
BRIAN T. NISHIMURA, PLANNING CONSULTANT

101 AUPUNI STREET  
SUITE 217  
HILO, HAWAII 96720

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### APPENDIX A - REPRODUCTION OF COMMENTS MADE DURING THE PRE-ASSESSMENT CONSULTATION PERIOD

## INTRODUCTION

### 1.1 Purpose

The Hamakua Diversified Agricultural Association (HDAA), is proposing to lease the former Ookala Gym and Annex Parcel (Gym Parcel) from the County of Hawaii to develop the Ookala Community Center and Plantation Market Place. The Gym Parcel consists of approximately 16.123 acres at Ookala, North Hilo, Hawaii. The HDAA will utilize funding from the United States Department of Housing and Urban Development's (HUD) Community Development Block Grant (CDBG) Program to repair one of the Annex buildings for the proposed project. The use of federal funds triggers the environmental review process in accordance with Federal Regulations 24 CFR Part 58. In addition, the use of County property triggers the state environmental review process required by Chapter 343, Hawaii Revised Statutes.

### 1.2 Identification of Applicant

Ms. Valérie T. Poindexter is the Executive Director of the Hamakua Diversified Agricultural Association, a Hawaii nonprofit, community land trust organization, whose mailing address is P.O. Box 369, Paauilo, Hawaii 96776.

### 1.3 Identification of Approving Agency and Responsible Entity

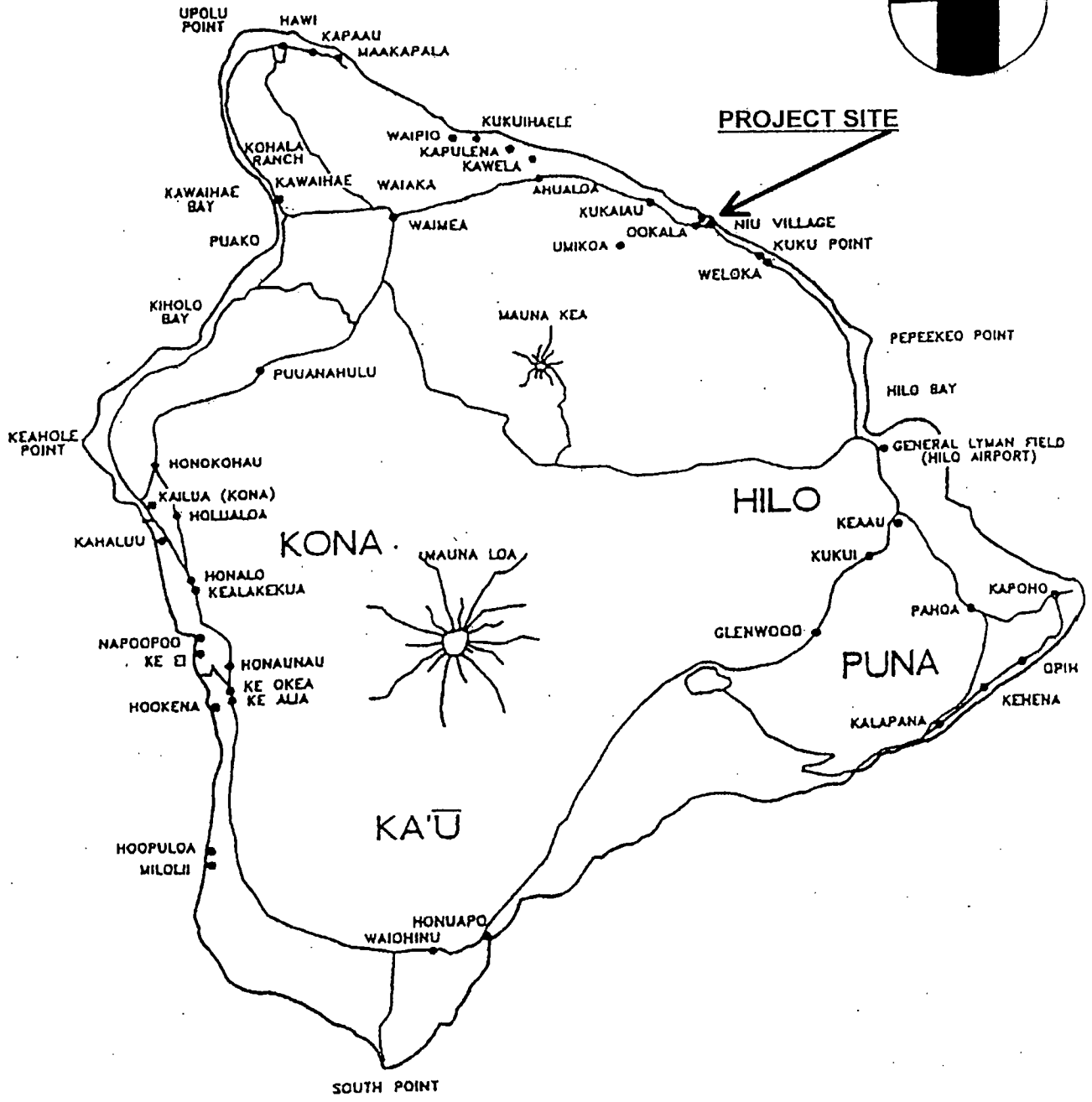
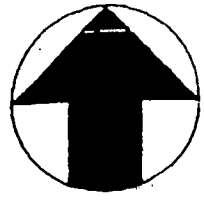
In accordance with Chapter 343, HRS, the Mayor of the County of Hawaii, or an authorized representative, is the appropriate accepting authority of the Environmental Assessment. In addition, the County of Hawaii is the "Responsible Entity" that will carry out the federal environmental review requirements of CFR 24 Part 58.

### 1.4 Technical Description

The Hamakua Diversified Agricultural Association (HDAA) is proposing to develop the Ookala Community Center and Plantation Market Place on approximately 16.123 acres of land in Ookala, North Hilo, Hawaii, Tax Map Key (3) 3-9-01: 11. The subject property is situated adjacent to the former Hamakua Sugar Plantation Camp of Niu Village and to the north of Kaohaoha Gulch. (Please see Figure 1 - Location Map, Figure 2 - Tax Key Plat Map and Figure 3 - Site Plan and Topographic Map of the Project Area) The Gym Parcel includes the former Ookala Gym and Annex buildings, a garage, a playfield, former sugarcane fields and a portion of the Kaohaoha Gulch. The Gym and Annex buildings are in need of renovation and repair and needs to be retrofitted to be compliant with Americans with Disability Act (ADA) requirements prior to occupancy. The play field is being maintained on a regular basis while the remaining portions of the Gym Parcel are overgrown with shrubs grasses and trees.

The Ookala Community Center and Plantation Market Place is being proposed as a multi-purpose center for the Ookala community that will include a community center, post office, multi-use production facility for farmers, local artist, crafts people and others

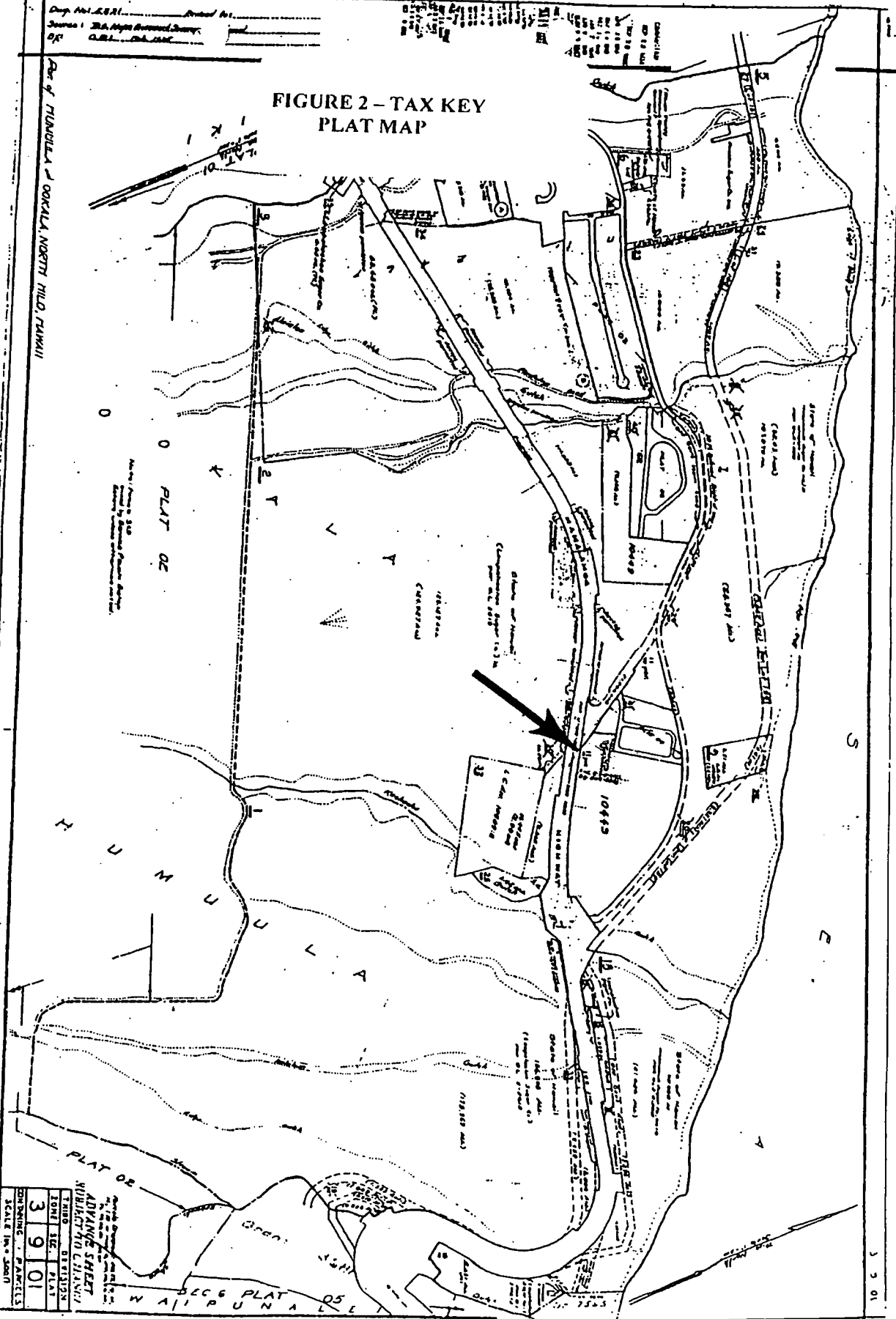
FIGURE 1 - LOCATION MAP



Date: Nov. 28, 1911. Project No. \_\_\_\_\_  
 Source: B.L. Maps & Surveying Co.  
 O.S. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

### FIGURE 2 - TAX KEY PLAT MAP

Part of HUMANULA and SOKALA NORTH HILD, HAWAII



ADVANCE SHEET  
 SUBJECT TO CLASSIFICATION  
 3 9 01  
 DRAWING: P. P. P. P. P.  
 SCALE: 1" = 500'  
 HAWAII

BEGG PLAT 05  
 W A I P U N A L E

who produce local products. The facility will assist displaced sugar workers and low income community residents to become self-sufficient through self-employment by providing the infrastructure for cooperative marketing, cooperative purchasing, business training, technical support and opportunities for shared resources.

The proposed project will be developed in several phases. The first phase will involve the renovation of the annex building on the south side of the gym. The existing structure, with an area of approximately 1,450 square feet, was last utilized as a dormitory to house single Hamakua Sugar employees and contains nine bedrooms and a bathroom and restroom facility. The renovation will convert the dormitory rooms into a post office (approximately 272 square feet); a conference room with a small certified kitchen (459 square feet) and men and women restrooms (663 square feet). The first phase improvements will also include two paved parking stalls, one handicapped parking stall and a accessible walkway.

Funding for the first phase improvements have been secured from the Community Development Block Grant Program (CDBG) in the amount of \$250,000 as well as private foundation grants in the amount of \$45,000. Construction of the first phase is scheduled to begin in November 2001 and be completed in March 2002.

Additional phases of the project will involve renovating the former gym, development of a new community center building and the development of the remainder of the parcel for recreational and educational programs as well as youth and elderly activities. These facilities will provide opportunities for community meetings, recreational events, family parties and reunions, space for kupuna to gather, talk story and pass on the oral history of the district, a polling place for elections, space for cultural events, swap meets, and a health fair.

## **1.5 Project Background**

### **1.5.1 Need for the Project**

The Ookala Gym complex was constructed by the Kaiwiki Sugar Company in 1936 and served as the centerpiece for recreation and social interaction among and between the sugar plantation camp residents for over fifty years. Upon the closure of the Hamakua Sugar Company in 1994, the Ookala Gym property was conveyed to the County of Hawaii as part of the settlement for payment of real property taxes owed by the sugar company. The Ookala Gym property has not been utilized since the closure of the sugar company and the County does not have any current plans for utilizing the facility.

The Ookala community along with all of the residents of the Hamakua Coast have been traumatized by the closure of the sugar company and are going through a tough economic transition after the loss of the major employer in the district. Unemployment figures remain high and approximately 72% of the residents are either in the low or moderate income categories. The Ookala

Community Center and Plantation Market Place project will preserve an important asset within the community while providing a focal point for rebuilding morale and cohesion among area residents.

### 1.5.2 Land Use Designations

The subject property is situated within the State Land Use Agricultural District. The County General Plan Land Use Pattern Allocation Guide Map (LUPAG) designates this area as "Low Density Urban" and "Intensive Agriculture". The county zoning designation for the project site is Agricultural twenty acres (A-20a).

The proposed project is not situated within the Special Management Area designated by the County of Hawaii. The project does not involve the placement erection or removal of materials, nor increase the intensity of use in the Coastal Zone. The proposed project is consistent with all State and County land use designations and regulations.

### 1.5.3 Listing of Permits and Approvals

The following list of permits and approvals may be required for the proposed project:

State of Hawaii	
Department of Health	Underground Injection Control
County of Hawaii	
Department of Water Supply	Approval-Project Construction Plans
Department of Public Works	Approval-Project Construction Plans
Planning Department	Approval-Project Construction Plans
Office of Housing and Comm. Dev.	Approval-Project Construction Plans
Department of Parks & Recreation	Approval-Project Construction Plans

### 1.6 Agency and Public Consultation

Several community meetings have been held to discuss the proposed Ookala Community Center and Plantation Market Place project. These included preliminary planning sessions which began in 1997 and have continued with periodic updates. The last community meeting was held on June 10, 2001 to discuss the current status of the project.

The following public and private organizations were consulted during the preparation of this environmental assessment:

United States Fish and Wildlife Service  
United States Army Engineer Division, Pacific Ocean  
Federal Aviation Administration

State of Hawaii, Department of Health  
State of Hawaii, Department of Agriculture  
State of Hawaii, Department of Transportation, Highways Division  
State of Hawaii, Department of Business, Economic Development and Tourism  
State of Hawaii, Department of Land and Natural Resources  
    Division of Water Resource Management  
    State Historic Preservation Division  
    Land Division-Hawaii District Land Office  
State of Hawaii, Department of Hawaiian Home Lands  
State of Hawaii, Office of Hawaiian Affairs – Honolulu and East Hawaii  
County of Hawaii, Planning Department  
County of Hawaii, Department of Public Works  
County of Hawaii, Department of Research and Development  
County of Hawaii, Department of Water Supply  
County of Hawaii, Police Department  
County of Hawaii, Fire Department  
County of Hawaii, Civil Defense Agency

## 2. ENVIRONMENTAL SETTING

### 2.1 Physical Environment

#### 2.1.1 Geology and Hazards

##### *Environmental Setting*

The project area is located on the lower northeastern slopes of Mauna Kea and consists of the Hamakua volcanic series (Sterns and Macdonald, 1946). The Hamakua volcanic series consists mainly of basaltic lava flows.

The volcanic hazard as assessed by the United States Geological Survey for the project area is "8" on a scale of ascending risk 9 to 1 (Heliker 1990). Zone "8" includes the lower slopes of Mauna Kea, most of which has not been affected by lava flows for the past 10,000 years.

The entire island of Hawaii is in earthquake zone 4 of the Uniform Building Code, which establishes structural design standards for earthquake resistance for certain types of buildings. This zone is prone to major damages from potential earthquake activity.

##### *Impacts and Mitigation Measures*

The proposed project will not expose the residents or the general public to any additional hazard risk that does not already exist. The volcanic hazard risk is relatively low and the same as any other alternative site that could be utilized for the same purpose in the general vicinity. All construction activity will be in compliance with current code requirements.

All proposed improvements will be constructed to current Building Code standards which includes measures to reduce seismic damage.

#### 2.1.2 Soils

##### *Environmental Setting*

The soils of the project area are classified as Ookala silty clay loam which are well drained silty clay loams formed in volcanic ash. This soil was previously utilized for sugarcane with capability subclass ratings of IIIe and Ivc, depending on the slope. (U. S. Soil Conservation Service 1973). The Land Study Bureau's overall master productivity rating of the subject area for agricultural use is class "B" or "good" (Land Study Bureau 1965).

### *Impacts*

Given the historical use of the property for social and recreational uses as well as the availability of other similar agricultural parcels in the area, no adverse impact on agricultural soils or uses are anticipated as a result of the proposed project.

### **2.1.3 Climate**

#### *Environmental Setting*

Hawaii's climate is generally characterized as mild with uniform temperatures, moderate humidity, and two identifiable seasons. The "summer" season, between May and October is generally warmer and drier. The "winter" season, between October and April is cooler and wetter. The project area is situated in what is considered the "windward" side of the Island of Hawaii which is exposed to northeasterly trade winds that causes relatively high rainfall (approximately 100 inches/year). The elevation of the project area is approximately 400 feet above sea level. The average monthly minimum temperatures along the Hamakua Coast ranges from the mid 60's to 70 degrees Fahrenheit while the average monthly maximum temperature ranges from the mid 70's to the mid 80's: (University of Hawaii Press, 1983)

### *Impacts*

The climatic conditions of the project area will not have a significant impact on the proposed project.

### **2.1.4 Hydrology and Drainage**

#### *Environmental Setting*

The project site is designated Zone X (Areas determined to be outside the 500-year flood plain) on the Flood Insurance Rate Map (FIRM) prepared by the Federal Emergency Management Agency.

#### *Impacts and Mitigation Measures*

Development of the proposed project has the potential to increase surface runoff and flooding in the area. The proposed project will adhere to County and State requirements for disposing of runoff and addressing drainage concerns including requirements to contain all development generated runoff on-site. As such, no adverse drainage impacts are anticipated as a result of the proposed project.

The proposed project is not located within one mile of a listed Wild and Scenic River and will not have an effect on the natural, free flowing or scenic qualities of

a river in the National Wild and Scenic Rivers system.

### **2.1.5 Flora and Fauna**

#### *Environmental Setting*

The Ookala Gym Parcel has previously been mechanically altered and cleared. The area around the gym and annex buildings are landscaped with lawn grasses and various plants found in the yards of area residents. These include Dracena Janet Craigii and Dracena Warnecki, Ti (*Cordyline terminalis*), Tree fern or Hapu'u (*Cibotium splendens*), coconut trees (*cocos nucifera*) and Dwarf Poinciana (*Caesalpinia pulcherrima*). In addition embankment areas are planted in wedelia ground cover (*Wedelia trilobata*). Guinea grass (*Panicum maximum*) and other weed species such as sleeping grass (*mimosa pudica*) and Kaliko (*Euphorbia heterophylla*) are also found around the gym and annex buildings.

The playfield area has a variety of lawn grasses and has been well maintained by the Department of Parks and Recreation. A variety of trees planted for landscape and windbreak purposes together with several volunteer growth trees line the perimeter of the playfield. The various trees include a row of tall ironwoods (*Casurina equisetifolia*), an Indian Banyan (*Ficus benghaleasis*), shower trees (*Cassia Spp.*) a young Mango tree (*Mangifera spp.*) and Papaya (*Carica papaya*).

The balance of the parcel is former sugarcane fields which is predominantly overgrown with Guinea grass (*Panicum maximum*) with a scattering of young Ironwood trees (*Casurina equisetifolia*), and gunpowder trees (*Trema orientalis*).

No rare, threatened or endangered species as listed by the U.S. Fish and Wildlife Service are present on the project site. The history of continuous disturbance as a recreation center and for sugar cultivation indicates that the property will have very little value in terms of conserving native species or their habitats.

#### *Impacts*

No listed, candidate or proposed endangered animal or plant species are found on the subject property. In terms of conservation value, no botanical or zoological resources requiring special protection are present. No impact on native species or habitat is expected to result from the proposed Ookala Community Center and Plantation Marketplace Project.

## **2.1.6 Air Quality**

### *Environmental Setting*

Pollutants derived from the volcanic emissions from the ongoing Kilauea eruption affect the subject area. Other sources of air pollutants to a limited degree include vehicle emissions and dust from vehicles traveling along the Hawaii Belt Road. In general, however, the ambient air quality of the project area meets all federal and state standards as evidenced by its designation as an "attainment" area by the State Department of Health, Clean Air Branch.

### *Impacts and Mitigation Measures*

Short term impacts resulting from construction activity include dust and exhaust from machinery involved in the installation of the project improvements. Given the relative short construction time period, the potential impacts of these construction activities should be minimal. In addition, the contractor will be instructed to utilize best management practices to minimize dust impact.

## **2.1.7 Noise**

### *Environmental Setting*

Existing noise levels are typical of a rural residential setting, which is affected primarily by traffic on the Hawaii Belt Road. The project site is not situated in close proximity to any significant noise generators such as airports or industrial activity. The closest airport is situated approximately twenty-eight miles southeast of the project site.

### *Impacts and Mitigation Measures*

Temporary noise impacts will occur from construction activities of the project and are unavoidable. Mitigation measures can be taken, however, to minimize noise impacts including the use of mufflers and implementing construction curfew periods. State Department of Health regulations must be adhered to during construction.

## **2.1.8 Scenic and Open Space Resources**

### *Environmental Setting*

The North Hilo district is blessed with open space and scenic vistas in a rural-agricultural setting. The Ookala Gym Parcel and Kaohaohao Gulch are not listed as significant scenic resources in the Natural Beauty section of the Hawaii County General Plan.

### *Impacts*

The open space and scenic vistas of the North Hilo district and the project area in particular will not be adversely affected by the Ookala Community Center and Plantation Marketplace project.

#### **2.1.9 Aquifers and Wetlands**

##### *Environmental Setting*

The project area is within the Paauilo aquifer system which has a sustainable yield of approximately 60 million gallons per day. Daily water withdrawals from the Paauilo aquifer system are minimal at this time.

The project area is not situated within or adjacent to a wetland identified by or delineated on maps issued by the U.S. Department of Interior, Fish and Wildlife Service. In addition, the proposed project is not located in an area designated by the U.S. Environmental Protection Agency (EPA) as being supported by a sole source aquifer.

### *Impacts*

The proposed project will not have any adverse impact on any wetland or aquifer resource.

## **2.2 Social, Cultural and Economic Setting**

### **2.2.1 Socio-Economic Characteristics**

#### *Setting*

Hawaii County's population increased by more than 56,000 persons between 1980 and 2000. Between 1980 and 1990, Hawaii Island's population increased by 30.7 percent and increased by 23.6 percent between 1990 and 2000. The April 1, 2000 population figure for Hawaii County was 148,677 according to census figures compiled by the County of Hawaii, Department of Research and Development.

The population of the North Hilo district increased slightly from 1,679 in 1980 to 1,720 in 2000. In fact, population in the district actually decreased between 1980 and 1990 (-8.2%) before rebounding between 1990 and 2000 with an increase of 11.6%.

The low population growth levels reflects the lack of employment opportunities in the region. The North Hilo and Hamakua districts lost the primary employer in

the region when Hamakua Sugar Company shut down in 1994. A total of 700 direct jobs were lost and approximately 20,000 acres of land were removed from production with the close of the sugar company. Although a substantial portion of the acreage has been planted with eucalyptus trees, the number of jobs that were lost have yet to be replaced. Agricultural activities that continue in the district include ranching, macadamia nuts and other diversified agricultural crops. In addition to agriculture, many North Hilo residents are employed in the neighboring districts of South Hilo, Hamakua or South Kohala.

### *Impacts*

The Ookala Community Center and Plantation Market Place is being proposed as a multi-purpose center for the Ookala community that will have a positive socio-economic impact on the community. The proposed project will include programs and facilities to address the recreational, educational and social needs of the community. These facilities will provide opportunities for community meetings, recreational events, family parties and reunions, space for kupuna to gather, talk story and pass on the oral history of the district, a polling place for elections, space for special events such as swap meets, health fairs and cultural presentations. The facility will also assist displaced sugar workers and low income community residents by providing a multi-use production facility for farmers, local artist, crafts people and others producing locally made products. Technical assistance will also be provided to those interested in becoming self-sufficient through self-employment by providing the infrastructure for cooperative marketing, cooperative purchasing, business training, technical support and opportunities for shared resources.

Although the proposed project is situated in a neighborhood that is predominantly low-income, the proposed project will not have a disproportionately high and adverse human health or environmental effect. In fact, the proposed project is specifically intended to improve the social and economic conditions of this community.

### **2.2.2 Adjacent Land Uses**

#### *Existing Setting*

The project area is situated in Ookala, North Hilo, Hawaii, a former plantation community established in support of the now departed sugar industry. Surrounding land uses include Niu Village (a former plantation camp with 14 residences) to the northeast, farm land leased by the HDAA to the north, State owned agricultural land to the south and east, and State Highway 19 to the west.

The general character of the surrounding community is a mixture of residential, I and agricultural activities in a rural setting. Laupahoehoe, situated approximately four miles to the southeast, is the civic center for the North Hilo District. All of the

major government services are provided in Laupahoehoe including Laupahoehoe High and Elementary School (grades K-12), school and community library, police station, fire station and refuse transfer station.

The proposed project is not situated within an FAA-designated civilian airport Runway Clear Zone (RCZ), within a military airfield Clear Zone (CZ) or Accident Potential Zone (APZ). The closest airport is the Hilo Airport situated approximately twenty-eight miles southeast of the project site.

The proposed project is not situated within one mile of a NPL ("Superfund") site, nor within 2,000 feet of a CERCLIS site, nor adjacent to any other known or suspected sites contaminated with toxic chemicals or radioactive materials. The proposed project is situated within a rural-residential setting without any nearby explosive or flammable operations.

#### *Impacts*

The proposed project will be consistent with the existing residential-agricultural character of the surrounding community. The proposed project will have little or no impact on the existing land use pattern of the surrounding properties and will be consistent with the historical use of the subject property. The proposed project will not expose either people or buildings to hazards from aircraft, explosive or flammable operations, toxic chemicals or radioactive materials.

### **2.3 Public Facilities and Services**

#### **2.3.1 Roads and Traffic Circulation**

##### *Setting*

Access to the Gym Parcel is provided from the Old Government Main Road by a 12-foot wide paved private roadway providing access to Niu Village. The distance from the Old Government Main Road to the Gym Parcel is approximately 200 feet.

##### *Impacts and Mitigation Measures*

The additional traffic to be generated by the proposed Ookala Community Center and Plantation Market Place is potentially significant. The traffic expected from the first phase of improvements, however, will not exceed levels experienced during the historical use of the facility. Alternative access routes and improvements will be developed prior to any further development of the property.

### **2.3.2 Water Supply**

#### *Existing Setting*

The Gym Parcel is currently connected to the county water system from an existing 6-inch waterline which is also serving Niu Village.

#### *Impacts*

The proposed Ookala Community Center and Plantation Market Place will not have a significant adverse impact on the existing Department of Water Supply system serving the subject location.

### **2.3.3 Wastewater**

#### *Existing Setting*

The Ookala community is not served by a municipal wastewater treatment facility. The south annex being renovated in the first phase of the proposed project is connected to an existing cesspool. Sewage effluent generated by subsequent phases of the proposed project will be handled by on-site septic systems meeting with the approval of the State Department of Health.

#### *Impacts and Mitigation Measures*

The sewage effluent generated by the first phase of the proposed project will be accommodated by the existing cesspool serving the south annex. Subsequent phases of the proposed project will be developed in accordance with the requirements of the Department of Health.

### **2.3.4 Electricity and Telephone Service**

#### *Setting*

Electricity and telephone service are available to the subject property from existing service lines serving Niu Village.

#### *Impacts*

The proposed project will not have any significant adverse impact on the existing capacity of these services.

### **2.3.5 Solid Waste**

#### *Existing Setting*

The County does not provide any municipal waste pick up services in the area. The nearest county solid waste transfer station to the subject property is approximately four miles away in Laupahoehoe.

#### *Impacts and Mitigation Measures*

A private waste pick up service will be utilized for the proposed project. In addition, recycling bins can be accommodated on site to encourage the recycling of cans, bottles and paper.

### **2.3.6 Protective and Social Services**

#### *Existing Setting*

Protective services including fire and police are located in Laupahoehoe, approximately four miles from the project site. These facilities and services adequately meet the needs that would be generated by the proposed project.

A variety of social service agencies have expressed interest in utilizing the Gym Parcel to provide their services. These include agencies serving the elderly, children and the low-income population in the community. These agencies are looking for a site within the community to provide their services.

#### *Impacts*

The proposed project will not have any adverse impact on the protective services being provided to the Ookala community. In addition, the proposed project will have a positive impact on service providers and the community by establishing a suitable location for their services.

### **2.3.7 Recreation Facilities**

#### *Existing Setting*

There are no recreational facilities in Ookala other than the large grassed field on the Gym Parcel. The North Hilo community utilizes the school facilities at Laupahoehoe which include a 6-acre play field, a gymnasium, two tennis courts and a County swimming pool. The County has another recreational facility in Papaaloa which includes a gymnasium, community center, ball field and tennis courts. In addition, the Laupahoehoe peninsula area is the location of an old gymnasium and a beach park that includes a play field, boat ramp, picnic

shelters and a large pavilion. The beach park accommodates camping, picnicking and fishing.

*Impacts*

The proposed project will not create any additional burden on the existing recreational facilities serving the district. In fact, the proposed project will provide an additional facility to be utilized for recreational and social activities that will reduce the impact on some of the existing facilities.

## 2.4 Archaeology, Historic and Cultural Resources

### *Setting*

The Gym Parcel was previously owned by the Hamakua Sugar Company which shut down operations in 1994. The Ookala area was subject to cultivation practices which included mechanical site preparation and mechanized harvesting. Such practices would have destroyed any evidence of archaeological features, if any existed. There are no known pre-1850 historically significant sites adjacent to the Gym Parcel which are listed on the national and/or Hawaii Register of Historic Sites.

The Ookala Gym and Annex was built by the Kaiwiki Sugar Company's carpentry crew in 1936-1937. Commenting on the proposed lease of the Gym Parcel, the State Department of Land and Natural Resources, Historic Preservation Division stated, in part, the following:

"The gym appears to meet the criteria for placement on the Hawaii and National Registers of Historic Places as a very intact example of a County gym established in a plantation community. We are glad to see the proposed use of this building and support the lease of the property.

Enclosed is a preservation brief, 'Making Historic Properties Accessible,' which offers recommended methods of keeping the historic character of a property while making it accessible. We would like to review the proposed ramps and renovations to comply with the Americans with Disabilities Act, as we understand the need for accessibility, but would like to ensure that historic character is maintained. Please forward any sketches or schematic plans as they are developed.

Also, since a post office will be installed on the property and there may be CDBG funds involved, compliance with Section 106 of the National Historic Preservation Act is required, which is basically consultation with our office."

### *Impacts and Mitigation Measures*

The HDAA recognizes the historic significance of the Ookala Gym and will comply with the request of the State Historic Preservation Division to include them in the consultation process as plans are developed. The HDAA will strive to retain the character of the Gym and Annex buildings as they proceed with the renovation plans and further development of the project site.

### 3. SUMMARY OF POTENTIAL ADVERSE ENVIRONMENTAL IMPACTS AND PROPOSED MITIGATION MEASURES

#### 3.1 Short Term Impacts

##### *Construction Activity:*

Impacts: Short term impacts will result from the proposed construction activity including increased noise levels, dust and exhaust from machinery involved in the installation of the project improvements. Given the relative short construction time period the potential impacts of these construction activities should be minimal.

Mitigation: The contractor will be instructed to utilize best management practices to minimize all impacts including the use of mufflers and implementing construction curfew periods. State Department of Health regulations must be adhered to during construction.

#### 3.2 Long Term Impacts

##### *Geologic Hazard:*

Impacts: The proposed project will be exposed to damages from potential earthquake activity.

Mitigation: The proposed renovation of the gym annex will be constructed to current Building Code standards which includes measures to reduce seismic damage.

##### *Drainage and Erosion:*

Impacts: Development of the proposed project has the potential to increase surface runoff and flooding in the area.

Mitigation: The proposed project will adhere to County and State requirements for disposing of runoff and addressing drainage concerns including requirements to contain all development generated runoff on-site.

##### *Wastewater:*

Impacts: Sewage effluent generated by the proposed project will have to be addressed.

Mitigation: The existing cesspool will handle the sewage effluent generated from the renovation of the south annex. Sewage generated from subsequent phases

Each of the... of the proposed project will be handled by an on-site septic system meeting with... the approval of the State Department of Health.

*Solid Waste:*

Impacts: Solid waste generated by the proposed project will have to be addressed.

Mitigation: A private waste pick up service will be utilized for the proposed project. In addition, recycling bins can be accommodated on site to encourage the recycling of cans, bottles and paper.

*Historic Sites:*

Impacts: The Ookala gym appears to meet the criteria for placement on the Hawaii and National Registers of Historic Places as a very intact example of a County gym established in a plantation community.

Mitigation: The HDAA will comply with the request from the State Historic Preservation Division to submit the renovation plans for review and to include their office in the consultation process.

## 4. ALTERNATIVES

### 4.1 No Action

If the Ookala Gym Parcel is not leased to the HDAA, the gym and annex structures will remain closed and will continue to deteriorate. The County does not have any plans for utilizing the subject property and the existing facilities.

### 4.2 Alternative Solutions

The proposed Ookala Community Center and Plantation Market Place project could be located on alternative sites within the Ookala region. Although other feasible sites may be available, the Gym Parcel is probably the best suited for the intended purpose based on its historical use as a center for recreation and social interaction among and between the plantation camp residents of the sugar company. Furthermore, it is unlikely that the impacts generated for this site will be significantly less at any other site in the region.

## 5. DETERMINATION, FINDINGS AND REASONS FOR SUPPORTING DETERMINATION

### 5.1 Significance Criteria

According to the Department of Health Rules (11-200-12), an applicant or agency must determine whether an action may have a significant impact on the environment, including all phases of the project, its expected consequences both primary and secondary, its cumulative impact with other projects, and its short and long-term effects. In making the determination, the Rules establish "Significance Criteria" to be used as a basis for identifying whether significant environmental impact on the environment if it meets any one of the following thirteen criteria.

1. **Involves an irrevocable commitment to loss or destruction of any natural or cultural resources.**

The proposed project involves the lease of a 16.123 acre County owned parcel previously owned by the Hamakua Sugar Company. The parcel was previously utilized for sugarcane production and social and recreational facility for the plantation camp community. The subject property and facilities has not been utilized since the closure of the Hamakua Sugar Company in 1994. The project site does not contain any significant natural or cultural resources.

2. **Curtails the range of beneficial uses of the environment.**

The proposed Ookala Community Center and Plantation Market Place project will likely curtail the agricultural use of the property which ceased with the closure of the sugar company in 1994. However, there is an abundance of similar property in the region that are available for agricultural use.

3. **Conflicts with the State's long-term environmental policies or goals and guidelines as expressed in Chapter 344, HRS; and any revisions thereof and amendments thereto, court decisions, or executive orders.**

The proposed development is consistent with the Environmental Policies established in Chapter 344, HRS, and the National Environmental Policy Act.

4. **Substantially affects the economic or social welfare of the community or state.**

The Ookala Community Center and Plantation Market Place project will have a positive socio-economic impact on the community. The proposed project will include programs and facilities to address the recreational, educational and social needs of the community. These facilities will provide opportunities for community meetings, recreational events, family parties and reunions,

space for kupuna to gather, talk story and pass on the oral history of the district, a polling place for elections, space for special events such as swap meets, health fairs and cultural presentations. The facility will also assist displaced sugar workers and low income community residents by providing a multi-use production facility for farmers, local artist, crafts people and others producing locally made products. Technical assistance will also be provided to those interested in becoming self-sufficient through self-employment by providing the infrastructure for cooperative marketing, cooperative purchasing, business training, technical support and opportunities for shared resources.

**5. Substantially affects public health**

The proposed project does not substantially affect public health. Any construction related impacts of noise, dust and emissions will be mitigated by compliance with the State Department of Health Administrative Rules.

**6. Involves substantial secondary impacts, such as population changes or effects on public facilities.**

The proposed project will not have any substantial secondary impacts. The proposed project will address an existing demand for social, recreational and educational programs in the community. In fact, the proposed project will provide an additional facility to be utilized for recreational and social activities that will reduce the impact on some of the existing facilities.

**7. Involves a substantial degradation of environmental quality.**

The project area is situated in Ookala, North Hilo, Hawaii, a former plantation community established in support of the now departed sugar industry. The gym and annex facilities have been a part of the community since 1936. As such, the continued use of these facilities for the social, cultural and economic benefit of the community will not result in a substantial degradation of environmental quality.

**8. Is individually limited but cumulatively has considerable effect on the environment, or involves a commitment for larger actions.**

The proposed project will not have any substantial secondary impacts because it is not a generator of growth. The proposed project does not involve a commitment for larger actions and will not induce other actions having a cumulative effect on the environment.

**9. Substantially affects a rare, threatened or endangered species or its habitat.**

The proposed project will not have any substantial adverse effect on any rare, threatened or endangered species or its habitat.

**10. Detrimentially affects air or water quality or ambient noise levels.**

Short term impacts will result from the proposed construction activity including increased noise levels, dust and exhaust from machinery involved in the construction activity. The contractor will be instructed to utilize best management practices to minimize all impacts including the use of mufflers and implementing construction curfew periods. State Department of Health regulations must be adhered to during construction. Given the relative short construction time period, the potential impacts of these construction activities should be minimal.

**11. Affects or is likely to suffer damage by being located in an environmentally sensitive area, such as a flood plain, tsunami zone, beach, erosion-prone area, geologically hazardous land, estuary, freshwater, or coastal waters.**

The project site is not located in an environmentally sensitive area. The flood designation is Zone X (Areas determined to be outside the 500-year flood plain) and the volcanic hazard risk is relatively low compared to other districts on the island. All construction activity will be in compliance with current code requirements.

**12. Substantially affects scenic vistas and view planes identified in county or state plans or studies.**

The open space and scenic vistas of the North Hilo district and the project area in particular, will not be adversely affected by the Ookala Community Center and Plantation Marketplace project. The first phase of the project involves the renovation of an existing annex building. The topography of the subject property will allow subsequent phases to be designed and constructed without adversely affecting the scenic vistas and view planes of the area.

**13. Requires substantial energy consumption.**

The proposed project will not require substantial energy consumption.

**5.2 Findings**

Based on the foregoing information presented, it is determined that the proposed Ookala Community Center and Plantation Marketplace project will not have a significant effect. As such, a determination of a Finding of No Significant Impact for the proposed action is appropriate.

### **5.3 Reasons Supporting Determination**

The nature and scale of the proposed action within the former plantation community of Ookala is such that no significant environmental effects are anticipated. Potential impacts, if any, can be mitigated through sensitive design and careful construction management practices and compliance with all governmental requirements including those of the Department of Public Works and State Department of Health.

## REFERENCES

County of Hawaii. 1989. *The General Plan Hawaii County*. Hilo, Hawaii.

County of Hawaii, Department of Research and Development. 2001. "Resident Population, By Districts, Hawaii County: 1980, 1990, and 2000". Hilo, Hawaii.

Heliker, C. 1990. *Volcanic and Seismic Hazards on the Island of Hawaii*. Washington: GPO

Land Study Bureau. 1965. *Detailed Land Classification - Island of Hawaii*. University of Hawaii. Honolulu

U.S. Soil Conservation Service. 1973. *Soil Survey of the Island of Hawaii, State of Hawaii*. Washington: USDA

University of Hawaii at Manoa, Dept. of Geography. 1983. *Atlas of Hawaii*. 2nd ed. Honolulu: University of Hawaii Press.

**APPENDIX A - REPRODUCTION OF COMMENTS AND RESPONSES MADE  
DURING THE PRE-ASSESSMENT CONSULTATION PERIOD**

1. State of Hawaii, Department of Health, from Aaron Ueno, District Environmental Health Program Chief, dated March 14, 2000.
2. County of Hawaii, Department of Public Works, Building Division, from Stanley Takemura, Division Chief, dated March 15, 2000.
3. County of Hawaii, Department of Water Supply, from Milton D. Pavao, P.E., Manager, dated March 16, 2000.
4. State of Hawaii, Department of Land and Natural Resources, Land Division, from Harry Yada, District Land Agent, dated March 21, 2000.
5. County of Hawaii, Police Department, from Wayne G. Carvalho, Police Chief, dated March 31, 2000.
6. U.S. Department of the Army, U.S. Army Engineer District, Honolulu, from Milton Yoshimoto, Acting Chief, Civil Works Technical Branch, dated April 3, 2000.
7. County of Hawaii, Office of Housing and Community Development, from Edwin S. Taira, Assistant Housing Administrator, dated April 7, 2000.
8. County of Hawaii, Planning Department, from Virginia Goldstein, Planning Director, dated November 3, 2000.
9. State of Hawaii, Department of Land and Natural Resources, Historic Preservation Division, from Don Hibbard, Administrator, dated December 14, 2000.

BENJAMIN J. CAYETANO  
GOVERNOR



STATE OF HAWAII  
DEPARTMENT OF HEALTH

P.O. BOX 916  
HILO, HAWAII 96721-0916

*glenn?*

BRUCE S. ANDERSON, Ph.D., M.P.H.  
DIRECTOR OF HEALTH

BY  
MAYOR M.D. G.M.O.

00 MAR 15 AM 10 31

RECEIVED

March 14, 2000

Honorable Stephen K. Yamashiro  
Mayor, County of Hawaii  
25 Aupuni Street, Room 215  
Hilo, Hawaii 96720-4252

Mayor Yamashiro:

Subject: Pre-Assessment Consultation for the Proposed Direct Leave of  
All or a Portion of the Ookala Gym and annex Parcel situate at  
Ookala, North Hilo, Hawaii, Tax Map Key: 3rd/3-9-01:11

As a demolition and renovation activity, the Federal Register, 40 CFR Part 61, National Emission Standard for Hazardous Air Pollutants, Asbestos NESHAP Revision; Final Rule, November 20, 1990, requires the owner/operator to inspect the affected areas to determine whether asbestos is present.

Under the Asbestos School Hazard Abatement Response Act (ASHARA), all persons who conduct inspections (i.e. perform sampling and assessment of suspected asbestos-containing material) in schools or public and commercial buildings must have an active Asbestos Hazard Emergency Response (AHERA) certificate-of-training from an accredited training provider.

Under NESHAP's regulation, the owner/operator would be required to file with the Department of Health, Noise, Radiation, and Indoor Air Quality Branch, an Asbestos Demolition/Renovation notification 10 working days prior to demolition of each building or the disturbance of regulated asbestos-containing material. All regulated quantities and types of asbestos-containing materials would be subject to emission controls, proper collection, containerizing, and disposal at a permitted landfill.

Under a renovation project, if the amount of friable or non-friable material rendered friable is less than 160 square feet, the project would not be subject to the NESHAP requirements. However, the persons who conduct activities related to abatement and/or disturbances to friable material

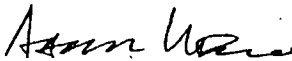
Honorable Stephen K. Yamashiro  
March 14, 2000  
Page 2

greater than three square feet or three linear feet, must have an active AHERA certificate of training from an accredited provider for that specific discipline (i.e., project designer, abatement supervisor and worker).

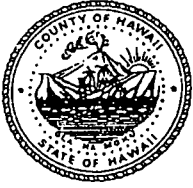
If you have any further questions, please feel free to contact Mr. Robert H. Lopes at (808) 586-5800.

The proposed certified kitchen and the distribution of processed food products needs to meet the requirements of Chapter 12, Food Establishment Sanitation. Please call our office (Ph. 933-0917) for consultation and additional information.

Sincerely,



AARON UENO  
District Environmental Health Program Chief  
Hawaii District



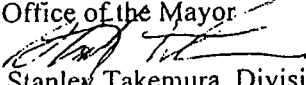
# BUILDING DIVISION - DPW

COUNTY OF HAWAII - 25 AUPUNI STREET - HILO, HAWAII 96720  
HILO OFFICE (808) 961-8331

KONA OFFICE (808) 327-3520

March 15, 2000

To: Glenn Y. Taguchi, Executive Assistant  
Office of the Mayor

From:   
Stanley Takemura, Division Chief

Subject: Pre-Assessment Consultation of Ookala Gym and Annex Parcel  
TMK: 3 - 9 - 01: 11

BY  
MAYOR M. D. D.M.D.

OFFICE OF THE MAYOR  
COUNTY OF HAWAII

00 MAR 15 PM 12 59

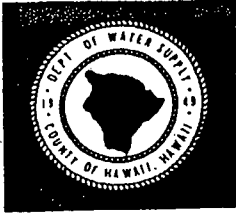
RECEIVED

We have reviewed the proposed development and have the following comments:

1. All new building construction shall comply to current codes and standards.
2. Accommodations for handicap accessibility shall be reviewed and approved by the State Commission on Persons with Disabilities.
3. All renovation plans shall be stamped by the appropriate licensed professional.
4. Building permits are required for all new and repair/ renovation work including permits for plumbing and electrical work. Permits should also be obtained for demolition of existing structures.

Should you have any questions please give me a call at extension 8331.

cc: Jai Ho Cheng, Plan Reviewer  
Brian Kajikawa, Building Deputy



DEPARTMENT OF WATER SUPPLY • COUNTY OF HAWAII

25 AUPUNI STREET • HILO, HAWAII  
TELEPHONE (808) 961-8660 • FAX (808) 961-8666

BY  
MAYOR  
M.D. D.M.D.

RECEIVED  
00 MAR 20 PM 7 58  
OFFICE OF THE MAYOR  
COUNTY OF HAWAII

March 16, 2000

TO: Mayor Stephen K. Yamashiro, County of Hawaii  
ATTENTION: MR. GLENN Y. TAGUCHI, EXECUTIVE ASSISTANT

FROM: Milton D. Pavao, Manager

SUBJECT: OOKALA COMMUNITY CENTER AND PLANTATION MARKET PLACE

The Department of Water Supply sees no adverse impact for our system at the above-subject location.

Sincerely yours,

Milton D. Pavao, P.E.  
Manager

Kl:gms




STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
LAND DIVISION  
P.O. BOX 936  
HILO, HAWAII 96721-0936  
PHONE: (808) 974-6203  
FAX: (808) 974-6222

AQUACULTURE DEVELOPMENT  
PROGRAM  
AQUATIC RESOURCES  
BOATING AND OCEAN RECREATION  
CONSERVATION AND  
RESOURCES ENFORCEMENT  
CONVEYANCES  
FORESTRY AND WILDLIFE  
HISTORIC PRESERVATION  
LAND DIVISION  
STATE PARKS  
WATER AND LAND DEVELOPMENT

March 21, 2000

TO: Stephen K. Yamashiro, Mayor  
County of Hawaii

FROM: Harry Yada, District Land Agent 

SUBJECT: Pre-Assessment Consultation for the Proposed Direct Lease of All  
or a Portion of the Ookala Gym and Annex Parcel situate at  
Ookala, North Hilo, Hawaii, Tax Map Key:3<sup>rd</sup>/3-9-01:11

The DLNR Land Division, Hawaii District Branch Office, has no comments to  
offer regarding this request.

cc: Central File

RECEIVED  
00 FEB 22 PM 2 32  
OFFICE OF THE MAYOR  
COUNTY OF HAWAII  
BY  
MAYOR M.D. O.M.D.

Stephen K. Yamashiro  
Mayor



Wayne G. Carvalho  
Police Chief

James S. Correa  
Deputy Police Chief

March 31, 2000

**County of Hawaii**  
**POLICE DEPARTMENT**

349 Kapiolani Street • Hilo, Hawaii 96720-3998  
(808) 935-3311 • Fax (808) 961-2702

BY  
MAYOR M.D. D.M.D.  
OFFICE OF THE MAYOR  
COUNTY OF HAWAII

RECEIVED  
00 APR 3 PM 2 48

TO : MAYOR  
ATTN : EXECUTIVE ASSISTANT GLENN Y. TAGUCHI  
FROM : ~~WAYNE~~ WAYNE G. CARVALHO, POLICE CHIEF  
SUBJECT: PRE-ASSESSMENT CONSULTATION FOR THE PROPOSED DIRECT  
LEASE OF ALL OR A PORTION OF THE OOKALA GYM AND ANNEX  
PARCEL SITUATED AT OOKALA, NORTH HILO, HAWAII,  
TAX MAP KEY: 3<sup>RD</sup> /3-9-01:11

We have received the request for the pre-assessment consultation regarding the use of the Ookala Gym and offer the following comments:

We would recommend a more direct route from Route 19, Hawaii Belt Road be established to the gym. The present route runs through Ookala Camp and is a single lane roadway that curves to the gym. Given the many uses planned for the gym, the present route may not be sufficient to handle the traffic. There is also a very narrow bridge when first entering the camp that may pose a problem. We feel that this area should be considered during the planning stages.

We have spoken with residents of Ookala Camp and they are in favor of the requested uses and recommend that the request be granted.

Should you require further assistance or information, please contact Assistant Chief Thomas Hickcox at (808)961-2342.



DEPARTMENT OF THE ARMY  
U. S. ARMY ENGINEER DISTRICT, HONOLULU  
FT. SHAFTER, HAWAII 96858-5440

REPLY TO  
ATTENTION OF

April 3, 2000

RECEIVED  
00 APR 6 PM 11 04  
OFFICE OF THE MAJOR  
COUNTY OF HAWAII  
BY  
MAYOR M.D. D.M.D.

Civil Works Technical Branch

Mr. Glenn Y. Taguchi  
County of Hawaii  
Office of the Mayor  
25 Aupuni Street, Room 215  
Hilo, Hawaii 96720

Dear Mr. Taguchi:

Thank you for the opportunity to review and comment on the Pre-Assessment Consultation for the Proposed Lease of Lands of Ookala Gym, North Hilo, Hawaii (TMK 3-9-1: 11). The following comments are provided in accordance with Corps of Engineers authorities to provide flood hazard information and to issue Department of the Army (DA) permits.

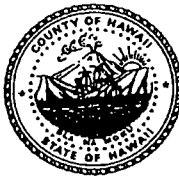
a. A DA permit will not be required for the project unless work occurs in Kaohaoha Gulch. For further information, please contact Mr. William Lennan of our Regulatory Branch staff at 438-6986.

b. The flood hazard information provided on page 11 of the information package is correct.

Sincerely,

Milton Yoshimoto  
Acting Chief, Civil Works  
Technical Branch

Stephen K. Yamashiro  
Mayor



*marc*

**County of Hawaii**  
**OFFICE OF HOUSING AND**  
**COMMUNITY DEVELOPMENT**

50 Wailuku Drive • Hilo, Hawaii 96720-2484  
V/TT (808) 961-8379 • FAX (808) 961-8685

April 7, 2000

MEMORANDUM

To: Stephen K. Yamashiro, Mayor  
County of Hawai'i

From: Edwin S. Taira *Edwin S. Taira*  
Assistant Housing Administrator

Subject: **Pre-Assessment Consultation for the Proposed  
Direct Lease of All or a Portion of the O'okala Gym  
And Annex Parcel, O'okala, North Hilo, Hawai'i  
Tax Map Key: 3rd/3-9-01-11**

As you indicated in your memo of March 10, 2000, Hamakua Diversified Agricultural Association (HDAA) has applied for U.S. Department of Housing and Urban Development Community Development Block Grant funds. Therefore, compliance with the National Environmental Policy Act (NEPA) of 1969, as amended, and HUD rules relating to environmental review (24 CFR Part 58) is required.

The Office of Housing and Community Development (OHCD) has reviewed the draft Environmental Assessment (EA) for the project. We have attached the (HUD recommended format per 24 CFR 58.36, revised 1/99) for your information and use.

If you have any questions or need additional information please call Clyde M. Yoshida at ext. 8379.

Enclosure



Stephen K. Yamashiro  
Mayor



Virginia Goldstein  
Director

Russell Kokubun  
Deputy Director

## County of Hawaii

### PLANNING DEPARTMENT

25 Aupuni Street, Room 109 • Hilo, Hawaii 96720-4252  
(808) 961-8288 • Fax (808) 961-8742

November 3, 2000

Mr. Brian T. Nishimura  
101 Aupuni Street, Suite 217  
Hilo, HI 96720

Dear Mr. Nishimura:

Pre-Assessment Consultation regarding Preparation of Draft Environmental Assessment  
Project: Ookala Community Center and Plantation Market Place  
TMK: 3-9-1; 11


Thank you for your memo dated October 19, 2000, requesting comments regarding the proposed Ookala Community Center and Plantation Market Place project in preparation of a draft environmental assessment as required by Chapter 343, Hawaii Revised Statutes (HRS) relating to Environmental Impact Statements. We have the following comments to offer:

1. The Ookala Community Center and Plantation Market Place project is located on lands designated Agricultural by the State Land Use Commission.
2. The project is situated within the County's Agricultural-20 acres (A-20a) zoned district and is designated Low Density Urban by the Hawaii County General Plan LUPAG Map.
3. The project is not located within the County's Special Management Area (SMA).

Mr. Brian T. Nishimura  
Page 2  
November 3, 2000

We will reserve further comment on the proposal pending receipt of a copy of the draft environmental assessment. In the meantime, please call Phyllis Fujimoto of this office should you have any questions.

Sincerely,

  
VIRGINIA GOLDSTEIN  
Planning Director

PF:cps  
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BENJAMIN J. CAYETANO  
GOVERNOR OF HAWAII



TIMOTHY E. JOHNS, CHAIRPERSON  
BOARD OF LAND AND NATURAL RESOURCES  
COMMISSION ON WATER RESOURCE MANAGEMENT

DEPUTIES  
JANET E. KAWILO  
LINNEL NISHIOKA

STATE OF HAWAII

DEPARTMENT OF LAND AND NATURAL RESOURCES

HISTORIC PRESERVATION DIVISION  
Kakuhihewa Building, Room 555  
601 Kamokila Boulevard  
Kapolei, Hawaii 96707

AQUATIC RESOURCES  
BOATING AND OCEAN RECREATION  
CONSERVATION AND RESOURCES  
ENFORCEMENT  
CONVEYANCES  
FORESTRY AND WILDLIFE  
HISTORIC PRESERVATION  
LAND  
STATE PARKS  
WATER RESOURCE MANAGEMENT

December 14, 2000

Mr. Brian T. Nishimura  
101 Aupuni Street  
Suite 217  
Hilo, Hawaii 96720

LOG NO: 26681  
DOC NO: 0012tm05  
Architecture

Dear Mr. Nishimura:

SUBJECT: O'okala Gym and Annex Parcel  
Lease and Renovation  
TMK: 3-9-01:11, O'okala, Island of Hawai'i

Thank you for the transmittal on the above proposal to issue a direct lease for the former O'okala Gym parcel to the Hamakua Diversified Agricultural Association. The gym appears to meet the criteria for placement on the Hawaii and National Registers of Historic Places as a very intact example of a County gym established in a plantation community. We are glad to see the proposed use of this building and support the lease of the property.

Enclosed is a preservation brief, "Making Historic Properties Accessible," which offers recommended methods of keeping the historic character of a property while making it accessible. We would like to review the proposed ramps and renovations to comply with the Americans with Disabilities Act, as we understand the need for accessibility, but would like to ensure that historic character is maintained. Please forward any sketches or schematic plans as they are developed.

Also, since a post office will be installed on the property and there may be CDBG funds involved, compliance with Section 106 of the National Historic Preservation Act is required, which is basically consultation with our office. Please feel free to call Tonia Moy at (808)692-8030 with any questions.

Aloha,

A handwritten signature in cursive script, appearing to read "Don Hibbard".

DON HIBBARD, Administrator  
State Historic Preservation Division

TM:jk

**ASBESTOS & LEAD SURVEY REPORT  
FOR  
SOUTH ANNEX BUILDING  
O'OKALA GYM  
O'OKALA, ISLAND OF HAWAII**

**October 2001**



**Environmental Research and Consulting Services**  
98-099 Uao Place #1101, Aiea, Hawaii 96701 • 808.484.9214

Building Survey  
South Annex, O'okala Gym, Island of Hawaii

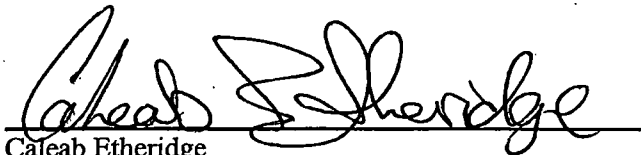
This Asbestos & Lead Survey Report is prepared for:

Hamakua Diversified Agricultural Association  
P.O. Box 86  
O'okala, Hawaii 96774

ASBESTOS & LEAD SURVEY REPORT FOR  
SOUTH ANNEX BUILDING  
O'OKALA GYM  
O'OKALA, ISLAND OF HAWAII

MNA Job No. 5073

October 10, 2001



Caleab Etheridge  
Building Inspector  
State of Hawaii Cert. HIASB-INSCS-0422 (Exp. 9/21/02)



Myounghee Noh  
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## 1.0 INTRODUCTION

Myounghee Noh & Associates, L.L.C., (MNA), under contractual agreement with Hamakua Diversified Agricultural Association., conducted an asbestos and lead-based paint survey for the O'okala Gym's south annex building.

The purpose of the survey was to identify the existence, extent, and condition of paint surfaces and asbestos in the annex building, located directly south of the main gym building, which are expected to be disturbed as part of renovation work.

Myounghee Noh and Caleab Etheridge conducted the assessment of the subject site. Ms. Noh, an AHERA-accredited asbestos building inspector and an EPA-certified Lead inspector/risk assessor, surveyed the subject area and collected lead samples. Mr. Etheridge, an AHERA-accredited building inspector, collected bulk samples suspected to contain asbestos. Eight (8) asbestos samples, 23 paint chip samples, six (6) soil lead samples, and ten (10) Toxic Characteristic Leaching Property (TCLP) samples were collected. The samples and a chain-of-custody were submitted to White Environmental Consultants, Inc., in Honolulu, Hawaii, for analysis.

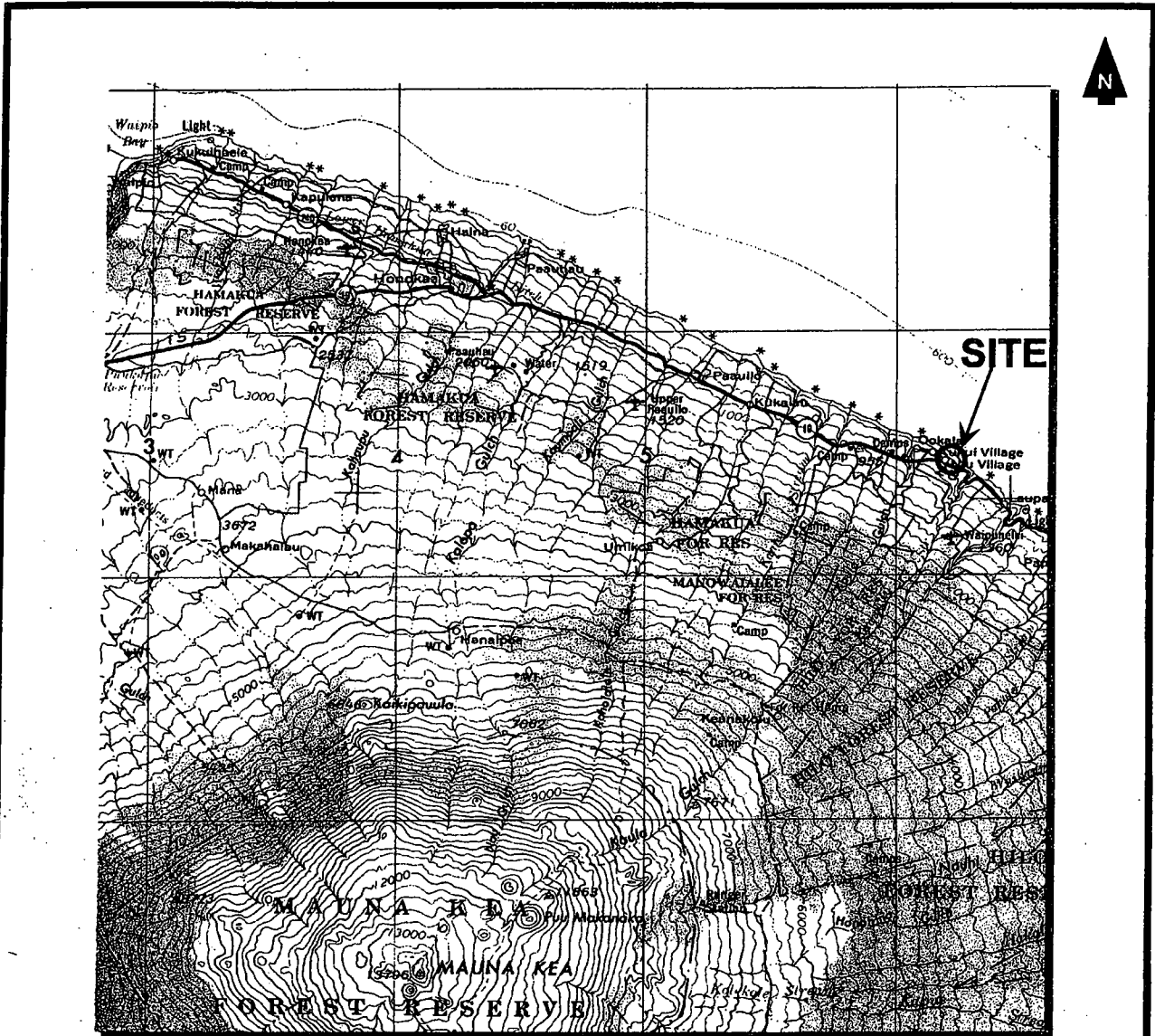
## 2.0 LABORATORY CERTIFICATION

White Environmental Consultants, Inc., Honolulu, Hawaii, is National Voluntary Laboratory Accreditation Program (NVLAP)-accredited, participates in the American Industrial Hygienist Association (AIHA) Environmental Lead Proficiency Analytical Testing (ELPAT) Program, and is registered with the State of Hawaii Department of Health. White Environmental laboratory analyzed the asbestos bulk samples using Polarized Light Microscopy (PLM) (EPA Method 600/R-93/116) and the paint chip samples for lead content using atomic absorption spectrometry (EPA Method SW846-3050-7420).

## 3.0 SAMPLING

On September 13, 2001, a building survey was conducted at the annex building, south of the O'okala Gym. This survey involved a visual inspection of the interior and exterior materials and painted surfaces and sample collection (photographs in Appendix A).

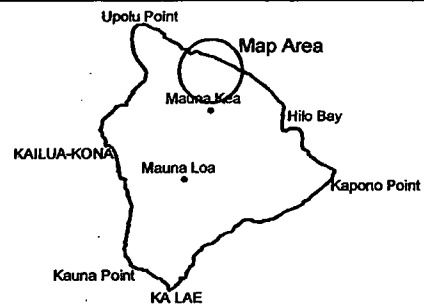
Twenty-three (23) paint chip samples, eight (8) asbestos samples, and six (6) soil lead samples were collected using a pre-wiped chisel, plastic bags, and a hammer. Ten (10) TCLP samples were collected using plastic bags and a drill equipped with a 3-inch bit. The TCLP samples were combined into one composite sample for analysis. Each sample was labeled with sample ID, date, analyte, and sample location. Sample location map is presented in Figure 1, and field survey form is presented in Appendix A.



Source: USGS Topographic Map, 1975



**Figure 1. Site Location Map**

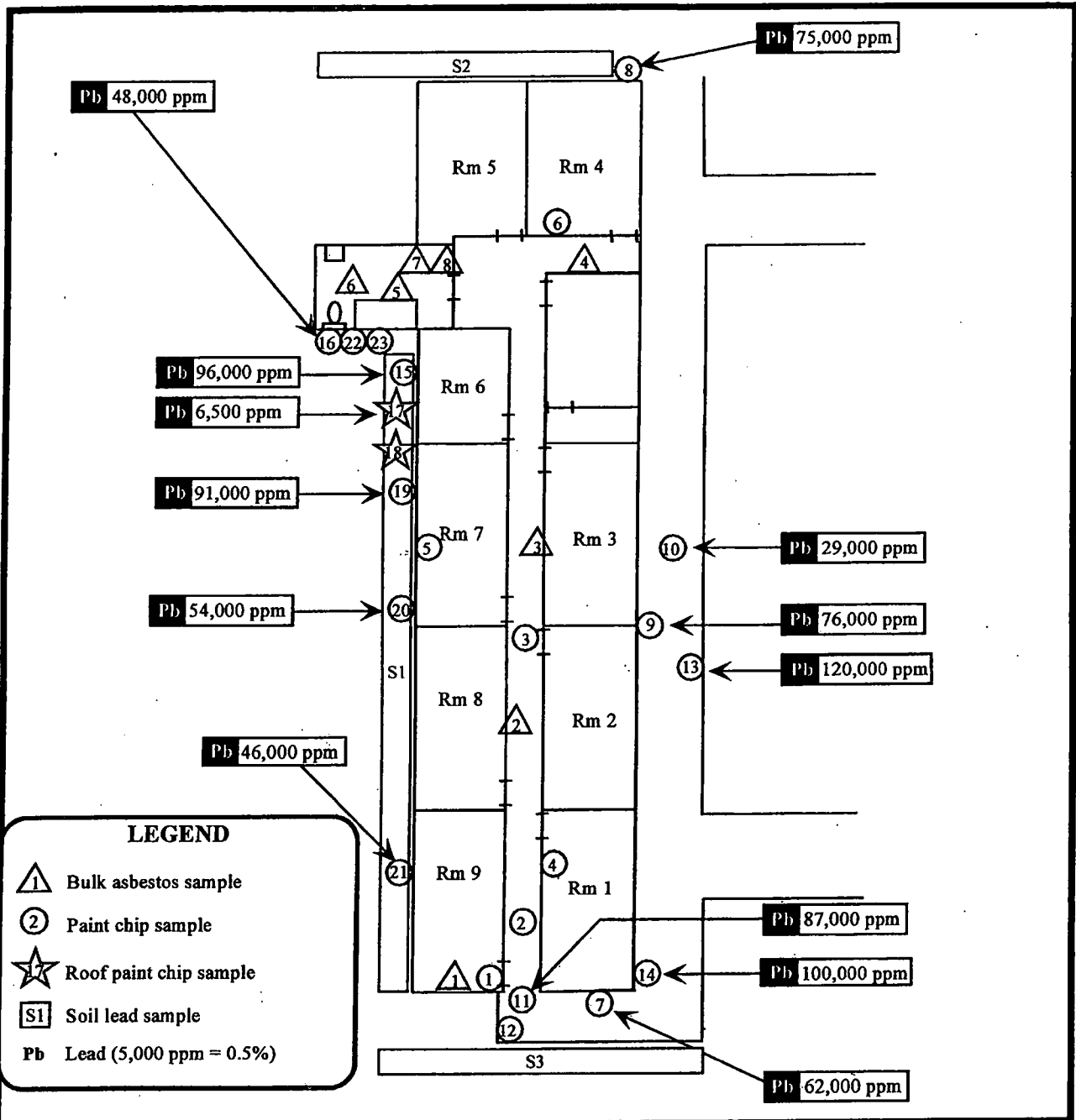


**South Annex Building  
O'okala Gym  
O'okala, Hawaii**

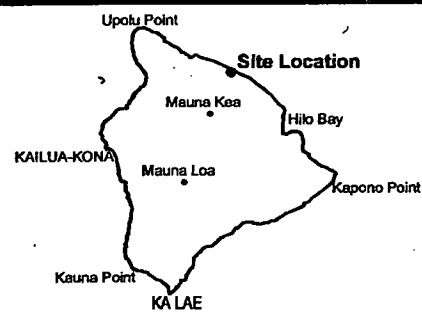


**Myounghee Noh & Associates, L.L.C.**

September 2001  
MNA Job No. 5073  
Page 3



**Figure 2. Sampling Locations**



**South Annex Building  
O'okala Gym  
O'okala, Hawaii**

September 2001  
MNA Job No. 5073



**Myounghee Noh &  
Associates, L.L.C.**

#### 4.0 ASBESTOS RESULTS

A total of eight (8) bulk samples suspected of containing asbestos were collected and analyzed. None of the samples contained any detectable amount of asbestos. Table 1 summarizes the asbestos results.

**Table 1. Asbestos Analytical Results**

Sample ID	Date Collected	Date Analyzed	Sample Location	Sample Description	Asbestos Detected
5073-A1	9/20/01	9/24/01	Room 9, white, wallboard	Friable, wallboard	No
5073-A2	9/20/01	9/24/01	Hallway, white, wallboard	Friable, wallboard	No
5073-A3	9/20/01	9/24/01	Hallway, white, wallboard	Friable, wallboard	No
5073-A4	9/20/01	9/24/01	Hallway, white, wallboard	Friable, wallboard	No
5073-A5	9/20/01	9/24/01	Bathroom, light-brown, floor tile	Nonfriable, linoleum	No
5073-A6	9/20/01	9/24/01	Bathroom, light-brown, floor tile	Nonfriable, linoleum	No
5073-A7	9/20/01	9/24/01	Bathroom, black, cove base	Nonfriable, linoleum	No
5073-A8	9/20/01	9/24/01	Bathroom, black, cove base	Nonfriable, linoleum	No

#### 5.0 LEAD-BASED PAINT RESULTS

Paint samples collected were found to contain lead ranging from <92 parts per million (ppm) to 120,000 ppm. Thirteen (13) of 23 paint chip samples submitted were found to be equal to or exceeding the U.S. Department of Housing and Urban Development (HUD) and EPA standard for lead paint of 5,000 ppm. Lead contents in the rest (10 samples) were between <92 ppm and 4,200 ppm. The results are summarized in Table 2, and the complete laboratory report is provided in Appendix C.

**Table 2. Lead-based Paint & TCLP Analytical Results**  
 (Sample results above 5,000 ppm lead are bold)

Sample ID	Location	Material Type	Material Appearance	Lead (ppm)
5073-P1	Room 9	Paint chip	Dark brown	2,400
5073-P2	Hallway	Paint chip	Dark brown	250
5073-P3	Hallway	Paint chip	Dark brown	<92
5073-P4	Room 9 wall	Paint chip	Off-white/grey	1,300
5073-P5	Room 7 window	Paint chip	Off-white/grey	1,100
5073-P6	Room 1 wall	Paint chip	Off-white/grey	700
5073-P7	Exterior wall, Makai	Paint chip	Cream/blue	<b>62,000</b>
5073-P8	Exterior wall, NE Corner	Paint chip	Cream/blue	<b>75,000</b>
5073-P9	Exterior wall, window, north	Paint chip	Green/light green	<b>76,000</b>
5073-P10	Exterior floor, floor, north	Paint chip	Green	<b>29,000</b>
5073-P11	Exterior door, Makai entrance	Paint chip	Green/dark green	<b>87,000</b>
5073-P12	Exterior guardrail, Makai entrance	Paint chip	Off-white	<330
5073-P13	Exterior guardrail, north	Paint chip	Green	<b>120,000</b>
5073-P14	Exterior wall, NW Corner	Paint chip	Green	<b>100,000</b>
5073-P15	Exterior wall, window, south	Paint chip	Green	<b>96,000</b>
5073-P16	Gutter, south	Paint chip	Green	<b>48,000</b>
5073-P17	Roof, south	Paint chip	Rust	<b>6,500</b>
5073-P18	Roof, south	Paint chip	Rust	4,200
5073-P19	Exterior window, south	Paint chip	White/ green	<b>91,000</b>
5073-P20	Exterior wall, south	Paint chip	Cream/ green	<b>54,000</b>
5073-P21	Exterior wall, south	Paint chip	Cream/green	<b>46,000</b>
5073-P22	Exterior wall, south	Paint chip	White	<180
5073-P23	Piping, south	Paint chip	White	<150
<b>TCLP</b>				<b>Lead (mg/L)</b>
5073-TCLP	O'okala Annex, south	TCLP	Composite of 10 core samples	<0.3

## 6.0 LEAD SOIL RESULTS

Soil lead samples were found to contain lead ranging from 950 ppm to 1,800 ppm. All three soil samples were found to exceed the EPA's "level of concern" suggested for children; however, the concentrations were below the EPA lead soil hazard level of 2,000 ppm. The results are summarized in Table 3, and the complete laboratory report is provided in Appendix C.

**Table 3 Baseline Soil Lead Results.**

Sample ID*	Date Collected	Date Analyzed	Sample Location	Lead (ppm)
5073-S1 5073-S1-D	9/20/01	9/25/01	Surface soil, south	1,800 1,700
5073-S2 5073-S2-D	9/20/01	9/25/01	Surface soil, Mauka	1,200 980
5073-S3 5073-S3-D	9/20/01	9/25/01	Surface soil, Makai	950 1,000
<b>EPA Lead Soil Hazard Level</b>				<b>2,000</b>
<b>EPA "level of concern" Suggested for Children</b>				<b>400</b>

\*D - Duplicate analysis performed by laboratory for quality control purpose.

## 7.0 RECOMMENDED ACTIONS

### Asbestos

Based on the analytical results of the suspect bulk samples collected, no further work is needed.

### Lead

Based on the analytical results of the paint chip samples, virtually all exterior painted surfaces including the roof contain lead. Poor surface conditions require proper abatement of the lead-based paint.

According to the Occupational Safety and Health Administration (OSHA) Lead in Construction Standard, 29 CFR 1926.62, employees involved in the renovation must be appropriately protected. Since virtually all exterior painted surfaces contain lead, any renovation work must be executed in accordance with the lead construction standard, if painted surfaces are to be disturbed. The contractor(s) shall perform the following:

1. Initial air sampling must be performed to determine airborne lead levels.
2. Employees must utilize respiratory protection until the initial assessment documents safe working levels of airborne lead [29 CFR 1926.62(d)(1) and (2)(I)(A)].

3. Exposure assessment should be carried out when workers are disturbing the lead-containing paint surfaces and ensure that workers are not exposed to more than the 8-hour time weighted average of  $50 \mu\text{g}/\text{m}^3$ .
4. The paint chips or dust must be collected separately from other construction debris, with a High Efficiency Particulate Air (HEPA) filter equipment. Dry sweeping of paint chips or dust must not be allowed.
5. The collected debris should be tested for leachability of lead following the EPA Toxicity Characteristic Leachate Procedure (TCLP), and should be disposed of properly according to the test results. The individual representative samples shall be analyzed for lead and cadmium, or other hazardous chemicals, based on landfill requirements. For West Hawaii Landfill, Contractors are required to provide the TCLP results to the local landfill operator as proof that the concentration of lead and cadmium are below the regulatory levels of 5.0 mg/L and 1.0 mg/L, respectively.

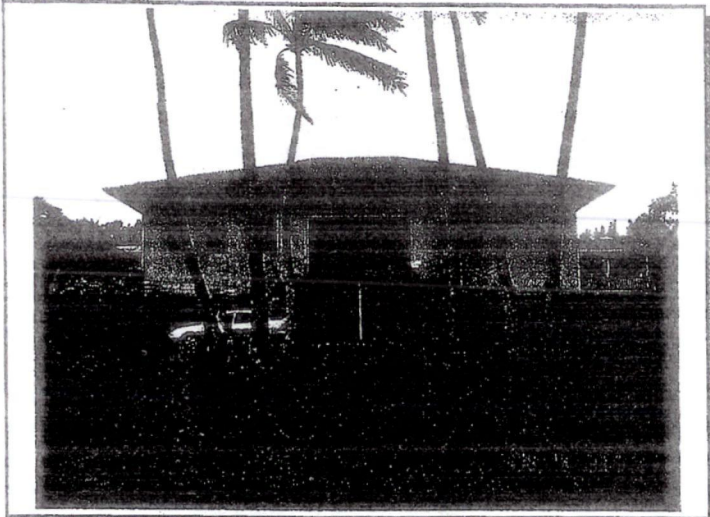
## 8.0 LIMITATIONS

Every reasonable effort was made to identify suspect hazardous materials during the survey of the O'okala Annex building. However, this does not imply a guarantee that all possible sources of hazards were identified by this assessment, because walls, flooring, partitions, etc., may hide certain building materials and/or surfaces. When suspect materials previously hidden by building components are uncovered, additional sampling may be needed prior to renovation or abatement.

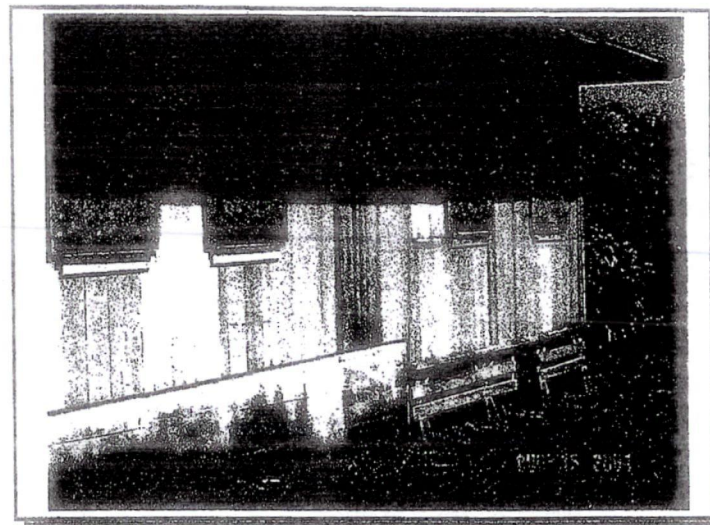
Building Survey, September 2001  
South Annex, O'okala Gym, Island of Hawaii

## APPENDIX A

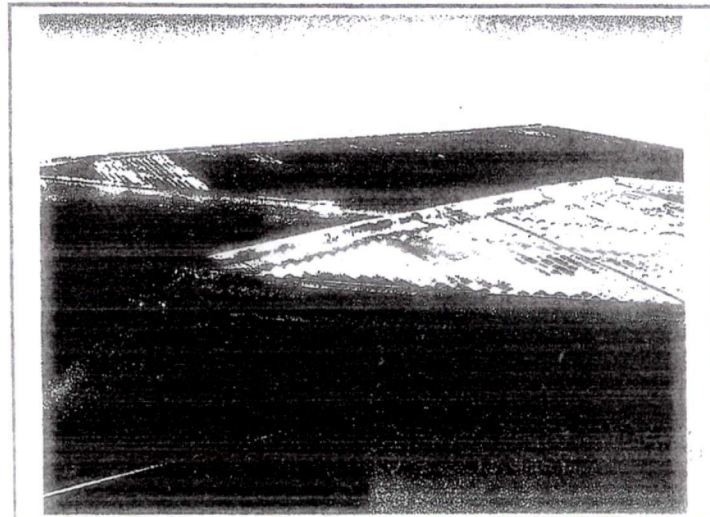
### Photographs



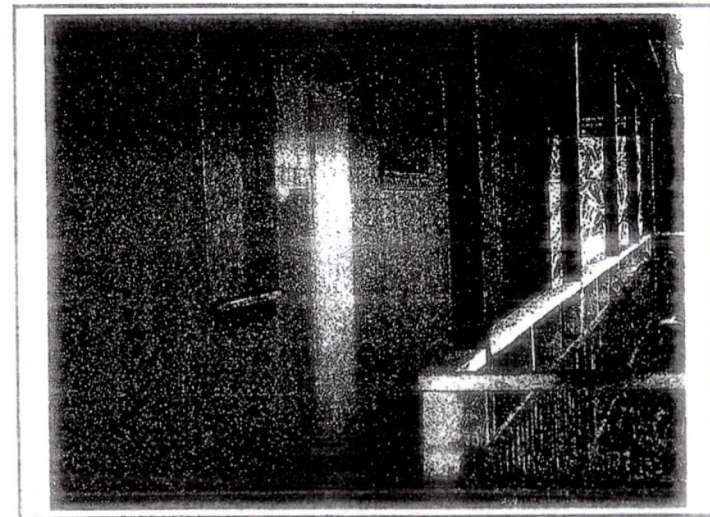
Photograph 1. A view of the O'okala Gym. The subject annex building is located left (south) of the gym.



Photograph 2. A view of the exterior surface, south wall of the annex.

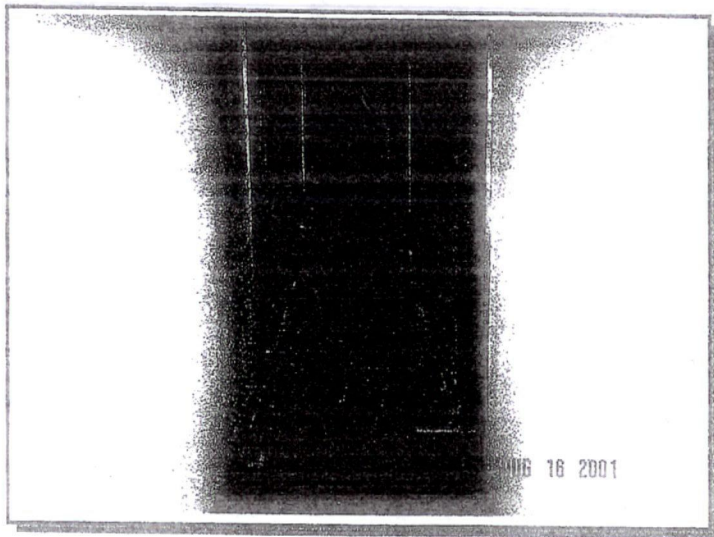


Photograph 3. A view of the roof, southwest of the annex. The main gym building roof is shown in the background.

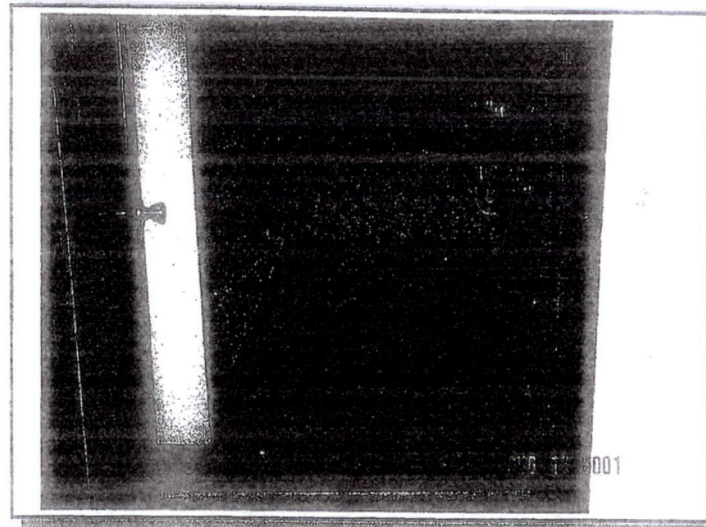


Photograph 4. A view of the exterior surface, north wall of the annex.





Photograph 5. A view of the hallway inside the annex. The single story structure housed nine rooms and two bathrooms.



Photograph 6. A view of a bathroom floor located at the southwest corner of the annex.



Building Survey, September 2001  
South Annex, O'okala Gym, Island of Hawaii

## APPENDIX B

### Field Survey Forms

SAMPLING DATE: <u>9/20/01</u>		SITE LOCATION: <u>O'okala Gym, Hamakua</u>					ANALYSIS: <u>Asbestos</u>	
JOB NO./NAME: <u>5073 HDAA-O'okala</u>		CLIENT: <u>Hamakua Diversified Ag. Assoc.</u>						
	Sample ID	Building	Floor	Room	Matrix	Color	Description	Friable (Y/N)
1	5073-A1	South Annex	-	Rm I	wallboard	white	Dry wallboard	Y
2	5073-A2	↓	-	Hallway	↓	↓	↓	Y
3	5073-A3		-	Hallway				Y
4	5073-A4		-	Hallway				Y
5	5073-A5		✓	Rm II				floor tile
6	5073-A6	↓	✓	Rm II	fl. tile	↓	Linoleum	N
7	5073-A7		-	Rm II	cove base	black	Linoleum	N
8	5073-A8		↓	-	Rm II	cove base	↓	↓
9								
10								
11								
12								

Sampled By: Caleb Ettridge / Myounghee Noh Date/Time: 9/20/01 11:00-13:00

Relinquished By: Myounghee Noh Date/Time: 9/21/01 11:00 Received By: Joanna Boyette Date/Time: 9/21/00 11:00

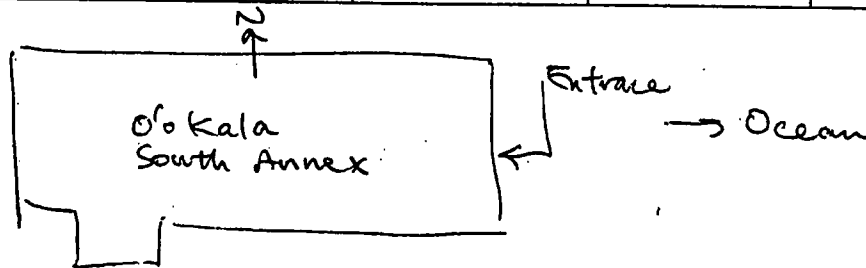
Shipped Via: \_\_\_\_\_ Airbill No.: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Send Results to:  Myounghee Noh

DATE: 9/20/01	SITE LOCATION: O'okala Gym, Hanakua	ANALYSIS: Pb
JOB NO./NAME: 5073 HDAA- O'okala	CLIENT: Hanakua Diversified As. Assoc.	

	Sample No.	Facility	Condition	Material Type	Material Appearance	Location
1	5073-P13	O'okala South	Poor	Paint/Guardrail	Green	Ext. North side
2	-P14	Annex Bldg	poor	Paint/ext.wall	Green	Northwest corner, Mauka
3	-P15		poor	Paint/ext.window	Green	South exterior wall
4	-P16		poor	Paint/gutter	Green	South side
5	-P17			Paint/roof	Rust	"
6	-P18			"	"	"
7	-P19			Paint/ext.window	white/green	"
8	-P20			Paint/ext.wall	cream/green	"
9	-P21			"	"	"
10	-P22			Paint/ext.wall	white	"
11	-P23			Paint/piping	"	"
12						

Note:



Sampled By: Myounghee Noh

Date/Time: 9/20/01 11:00

Field Sampling Form for Soil  
(Composite Sampling Only)

Name of Risk Assessor: Myounghee Noh

Name of Property Owner: HDA

Property Address: O'okala Gym, O'okala, Hawaii

Collect only the top 1/2 inch of soil.

	Sample No.	Location	Bare or covered	Lab result (ug/g)
1	5073-51	Surface soil, south	Bare	
2	5073-52	" , mauka	↓	
3	5073-53	" , makai		
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

Total number of samples on this page: 3

Date of sample collection: 9/20/01 Date <sup>delivered</sup> shipped to lab: 9/21/01

Shipped by: \_\_\_\_\_  
Signature

Received by: Shana Santos  
Signature

Print

Shana Santos  
Print

Building Survey, September 2001  
South Annex, O'okala Gym, Island of Hawaii

## APPENDIX C

### Laboratory Analytical Reports



1130 Nimitz Hwy, #B220, Honolulu, HI 96817-0000 (808) 536-8819  
 FAX: (808) 536-0191

**Bulk Sample Analysis for Asbestos**

WEC Project #: H01-931  
 Client Project#:

Report #: 9173  
 Report Date: 9/24/01

Client: Myounghee Noh & Associates, L.L.C.  
 98-099 Uao Place #1101  
 Aiea, HI 96701  
 # Samples: 8 # Layers: 12

Collected Date: 9/20/01  
 Collected By: Client  
 TAT: 2 Business Days  
 Analysis By: S. Wells  
 Analysis Date: 9/24/01  
 Received By: S.Santos  
 Received Date: 9/21/01

Project Name/Location: 5073-HDAA - O'okala

Client ID#	WEC ID#	Location	Layer				
5073-A1	HB01-2527-A	South Annex Room 1	1 of 2				
<b>Asbestos</b>		Frangible/Non Frangible	Homo- genous				
None Detected		Frangible Yes	No				
		Material	Mud Compound				
		% Asbestos: 0%					
<b>Other Fibrous Materials</b>		% Other Fibrous Materials: 4%					
<table border="1"> <thead> <tr> <th>Type</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Cellulose</td> <td>4%</td> </tr> </tbody> </table>		Type	%	Cellulose	4%	Non Fibrous Materials: 96%	
Type	%						
Cellulose	4%						

Sample Comments:

Client ID#	WEC ID#	Location	Layer						
5073-A1	HB01-2527-B	South Annex Room 1	2 of 2						
<b>Asbestos</b>		Frangible/Non Frangible	Homo- genous						
None Detected		Frangible Yes	No						
		Material	Drywall						
		% Asbestos: 0%							
<b>Other Fibrous Materials</b>		% Other Fibrous Materials: 15%							
<table border="1"> <thead> <tr> <th>Type</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Fibrous Glass</td> <td>5%</td> </tr> <tr> <td>Cellulose</td> <td>10%</td> </tr> </tbody> </table>		Type	%	Fibrous Glass	5%	Cellulose	10%	Non Fibrous Materials: 85%	
Type	%								
Fibrous Glass	5%								
Cellulose	10%								

Sample Comments:



1130 Nimitz Hwy, #B220, Honolulu, HI 96817-0000

(808) 536-8818

FAX: (808) 536-0191

## Bulk Sample Analysis for Asbestos

WEC Project #: H01-931  
Client Project#:

Report #: 9173  
Report Date: 9/24/01

<b>Client ID#</b> 5073-A2	<b>WEC ID#</b> HB01-2528-A	<b>Location</b> South Annex Hallway	<b>Layer</b> 1 of 2
<b>Asbestos</b>		<b>Friable/Non Friable</b>	<b>Homo- genous</b>
None Detected		Friable      Yes	No
		<b>Material</b>	<b>Color</b>
		Mud Compound	White
<b>Other Fibrous Materials</b>		<b>% Asbestos: 0%</b>	
		<b>% Other Fibrous Materials: 3%</b>	
		<b>Non Fibrous Materials: 97%</b>	
<b>Sample Comments:</b>			

<b>Client ID#</b> 5073-A2	<b>WEC ID#</b> HB01-2528-B	<b>Location</b> South Annex Hallway	<b>Layer</b> 2 of 2
<b>Asbestos</b>		<b>Friable/Non Friable</b>	<b>Homo- genous</b>
None Detected		Friable      Yes	No
		<b>Material</b>	<b>Color</b>
		Drywall	Brown/White
<b>Other Fibrous Materials</b>		<b>% Asbestos: 0%</b>	
		<b>% Other Fibrous Materials: 20%</b>	
		<b>Non Fibrous Materials: 80%</b>	
<b>Sample Comments:</b>			

<b>Client ID#</b> 6073-A3	<b>WEC ID#</b> HB01-2629-A	<b>Location</b> South Annex Hallway	<b>Layer</b> 1 of 2
<b>Asbestos</b>		<b>Friable/Non Friable</b>	<b>Homo- genous</b>
None Detected		Friable      Yes	No
		<b>Material</b>	<b>Color</b>
		Mud Compound	White
<b>Other Fibrous Materials</b>		<b>% Asbestos: 0%</b>	
		<b>% Other Fibrous Materials: 2%</b>	
		<b>Non Fibrous Materials: 98%</b>	
<b>Sample Comments:</b>			



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 FAX: (808) 536-0191

**Bulk Sample Analysis for Asbestos**

WEC Project #: H01-931  
 Client Project#:

Report #: 9173  
 Report Date: 9/24/01

Client ID# 5073-A3	WEC ID# HB01-2529-B	Location South Annex Hallway	Layer 2 of 2			
<b>Asbestos</b>		Friable/Non Friable	Fibrous? Yes No	Homo- genous	Material Drywall	Color White/Brown
None Detected						
<b>Other Fibrous Materials</b>		% Asbestos: 0%				
		% Other Fibrous Materials: 20%				
		Non Fibrous Materials: 80%				
<b>Type</b>		<b>%</b>				
Fibrous Glass		5%				
Cellulose		15%				
Sample Comments:						

Client ID# 5073-A4	WEC ID# HB01-2530-A	Location South Annex Hallway	Layer 1 of 2			
<b>Asbestos</b>		Friable/Non Friable	Fibrous? Yes No	Homo- genous	Material Mud Compound	Color White
None Detected						
<b>Other Fibrous Materials</b>		% Asbestos: 0%				
		% Other Fibrous Materials: 3%				
		Non Fibrous Materials: 97%				
<b>Type</b>		<b>%</b>				
Cellulose		3%				
Sample Comments:						

Client ID# 5073-A4	WEC ID# HB01-2530-B	Location South Annex Hallway	Layer 2 of 2			
<b>Asbestos</b>		Friable/Non Friable	Fibrous? Yes No	Homo- genous	Material Drywall	Color White/Brown
None Detected						
<b>Other Fibrous Materials</b>		% Asbestos: 0%				
		% Other Fibrous Materials: 20%				
		Non Fibrous Materials: 80%				
<b>Type</b>		<b>%</b>				
Fibrous Glass		5%				
Cellulose		15%				
Sample Comments:						



1130 Nimitz Hwy, #B220, Honolulu, HI 96817-0000

(808) 636-8819

FAX: (808) 536-0191

**Bulk Sample Analysis for Asbestos**

WEC Project #: H01-931  
Client Project#:

Report #: 9173  
Report Date: 9/24/01

<b>Client ID#</b> 5073-A5	<b>WEC ID#</b> HB01-2531	<b>Location</b> South Annex Room 11	<b>Layer</b> 1 of 1	
<b>Asbestos</b>		<b>Friable/Non Friable</b>	<b>Fibrous? Yes</b>	<b>Homo- genous No</b>
None Detected		Non Friable	Yes	No
<b>Other Fibrous Materials</b>		<b>Material</b> Linoleum	<b>Color</b> Cream/Tan	
		<b>% Asbestos: 0%</b>		
		<b>% Other Fibrous Materials: 50%</b>		
		<b>Non Fibrous Materials: 50%</b>		
<b>Type</b>		<b>Sample Comments:</b>		
Fibrous Glass	10%			
Cellulose	40%			

<b>Client ID#</b> 5073-A6	<b>WEC ID#</b> HB01-2532	<b>Location</b> South Annex Room 11	<b>Layer</b> 1 of 1	
<b>Asbestos</b>		<b>Friable/Non Friable</b>	<b>Fibrous? Yes</b>	<b>Homo- genous No</b>
None Detected		Non Friable	Yes	No
<b>Other Fibrous Materials</b>		<b>Material</b> Linoleum	<b>Color</b> Cream/Tan	
		<b>% Asbestos: 0%</b>		
		<b>% Other Fibrous Materials: 50%</b>		
		<b>Non Fibrous Materials: 50%</b>		
<b>Type</b>		<b>Sample Comments:</b>		
Fibrous Glass	10%			
Cellulose	40%			

<b>Client ID#</b> 5073-A7	<b>WEC ID#</b> HB01-2533	<b>Location</b> South Annex Room 11	<b>Layer</b> 1 of 1	
<b>Asbestos</b>		<b>Friable/Non Friable</b>	<b>Fibrous? Yes</b>	<b>Homo- genous No</b>
None Detected		Non Friable	Yes	No
<b>Other Fibrous Materials</b>		<b>Material</b> Covebase	<b>Color</b> Black	
		<b>% Asbestos: 0%</b>		
		<b>% Other Fibrous Materials: 4%</b>		
		<b>Non Fibrous Materials: 96%</b>		
<b>Type</b>		<b>Sample Comments:</b>		
Cellulose	4%			



1130 Nimitz Hwy, #B220, Honolulu, HI 96817-0000

(808) 536-8819

FAX: (808) 536-0191

### Bulk Sample Analysis for Asbestos

WEC Project #: H01-931  
Client Project#:

Report #: 9173  
Report Date: 9/24/01

<b>Client ID#</b> 5073-A8	<b>WEC ID#</b> HB01-2534	<b>Location</b> South Annex Room 11	<b>Layer</b> 1 of 1							
<b>Asbestos</b>		<b>Frangible/Non Frangible</b>	<b>Fibrous?</b>	<b>Homo- genous</b>	<b>Material Covebase</b>	<b>Color</b>				
None Detected		Non Frangible	Yes	No		Black				
<b>Other Fibrous Materials</b>			<b>% Asbestos: 0%</b>							
<table border="1"> <tr> <th>Type</th> <th>%</th> </tr> <tr> <td>Cellulose</td> <td>4%</td> </tr> </table>			Type	%	Cellulose	4%	<b>% Other Fibrous Materials: 4%</b>			
Type	%									
Cellulose	4%									
			<b>Non Fibrous Materials: 96%</b>							

**Sample Comments:**

Comments:

Analyst *John Wells* Date 9/24/01  
 QC *[Signature]* Date 09-24-01

Analysis performed by EPA Method 600/R-93/116 with dispersion staining microscopy. All quantities reported are based on visual estimation by PLM, unless point-counting method is requested and noted for the sample. Test report relates only to items tested and must not be used by client to claim product endorsement by NVLAP or any agency of the U.S. Government. Test reports must not be reproduced without the approval of WEC Inc., and are subject to WEC Inc. General Terms and Conditions (see reverse).



**WHITE ENVIRONMENTAL CONSULTANTS INC.**

1130 NIHIWA HWY # 11220 HONOLULU, HI 96817 PHONE (808) 536-8819 FAX (808) 536-0191

# Sample Chain of Custody

Client Name: <i>Myounghee Noh &amp; Associates</i>	Project Name: <i>5073 HDAA - O'okala</i>
Project Number: <i>5073 HDAA - O'okala</i>	
Samples Relinquished by: <i>Myounghee Noh</i>	Sample Received by: <i>Joanna Boyette</i>
Date: <i>9/21/01</i>	Date: <i>9/21/01</i>
Samples Relinquished by: <i>Joanna Boyette</i>	Sample Received by: <i>S. Santos</i>
Date: <i>9/21/01</i>	Date: <i>9.21-01 12:30</i>

Requested Analysis: ~~PCM~~ **PLM** Lead Air Lead Wipe Paint Soil  
 Bulk Arsenic TCLP for Lead 8 Metal RCRA OTHER

Client Number	Sample code	Sample Location	Collection Date	Samples Accept/Reject *See criterion below	Turn Around Time: RUSH, 24 hour, 48 hour, 72 hour, 5 day
<i>5073-A2A1</i>	<i>PLM</i>	<i>See Field log attached</i>	<i>9/20/01</i>	<i>Accepted.</i>	<i>48 hr</i>
<i>-A2</i>	↓	↓	↓		↓
<i>-A3</i>	↓	↓	↓		↓
<i>-A4</i>	↓	↓	↓		↓
<i>-A5</i>	↓	↓	↓		↓
<i>-A6</i>	↓	↓	↓		↓
<i>-A7</i>	↓	↓	↓		↓
<i>-A8</i>	↓	↓	↓		↓

Sample Type Codes: (PCM/Lead air) FB-Field Blank BL-Baseline IWA-Inside Work Area OWA-Outside Work Area EXC-Excursion  
 PER-Personal ENV-Environmental CL-Clearance PLM-Bulk Building Material

\*All samples submitted to WEC Inc. shall be sealed in the appropriate container, cartridge, or collection vessel, shall be free of exterior dust or contamination, and pose no immediate or potential hazard to personnel during sample receiving and processing.

Client correspondence regarding acceptance criteria or other aspects of analytical request:

7



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(808) 536-8819

FAX: (808) 636-0191

## Lead Analysis of Soils

WEC Project #: H01-931  
Client Project#: 5073

Report #: 9214  
Report Date: 9/26/01

Client: Myounghee Noh & Associates, L.L.C.  
98-099 Uao Place #1101  
Aiea, HI 96701

Collected By: Client  
Collection Date: 9/20/01  
Analysis By: K.Wells  
Analysis Date: 9/25/01  
Received By: S.Santos  
Received Date: 9/21/01

TAT: 3 Business Days # Samples: 6  
Project Name/Location: O'okala Gym, O'okala HI

Client ID #	WEC ID #	Sample Type	Result	Result Units	Reporting Limit
5073-51	L01-3614	ENV	1800	mg/kg	12
5073-51-D	L01-3614-D	ENV	1700	mg/kg	13
5073-52	L01-3615	ENV	1200	mg/kg	12
5073-52-D	L01-3615-D	ENV	980	mg/kg	13
5073-53	L01-3616	ENV	950	mg/kg	12
5073-53-D	L01-3616-D	ENV	1000	mg/kg	13

**Comments:**

Duplicate samples performed on each, designated by "D" suffix.

Analyst Kanokthip Wells  
QC [Signature]

Date 09-26-01  
Date 09-26-01

Analysis performed by flame atomic absorption spectroscopy, EPA Method SW846-3050A. The Reporting Limit is twice that of the Method Detection Limit (MDL) which is the minimum concentration of analyte that can be reported with 99% confidence that the analyte's concentration is greater than zero, and is determined from statistical analysis of replicate samples in a given matrix containing the analyte as defined in 40CFR Part 136, Appendix B. Any modifications that have been made to the previously referenced test methods are documented in WEC Inc.'s Standard Operating Procedures Manual. Supporting Laboratory Documentation is available upon request. WEC is a current proficient participant in the AIHA ELPAT program (Lab ID# 102739). Test reports must not be reproduced without the approval of WEC Inc., and are subject to WEC Inc. General Terms and Conditions (see reverse).



WORLDWIDE ENVIRONMENTAL CONSULTANTS, INC.  
 1130 SIMTZ HWY / DEER HONOLULU, HI 96817 PHONE (808) 536-8819 FAX (808) 536-0191

## Sample Chain of Custody

Client Name: <i>Myounghee Noh + Associates</i>	Project Name: <i>3049-6 COH/ Paavilo</i>
Project Number: <i>3049-6 COH/ Paavilo</i>	
Samples Relinquished by: <i>Myounghee Noh</i>	Sample Received by: <i>Joanna Boyette</i>
Date: <i>9/21/01</i>	Date: <i>9/21/01</i>
Samples Relinquished by: <i>Joanna Boyette</i>	Sample Received by: <i>S. Santos</i>
Date: <i>9/21/01</i>	Date: <i>9.21.01 12:30</i>

Requested Analysis: **ASBESTOS: PCM (NIOSH 7400A) PLM (NIOSH 7403)**

**LEAD: Air**

**Wipe (SW 846-6010) Paint (SW 846-7420) Soil (846-3050A)**

**TCLP for Lead (SW 846-1131) OTHER (specify analysis and method below)**

Turn-around Time

Client Number	Sample code	Sample Location	Collection Date	Sample A/R	RUSH 24 48 72 HOUR 5 DAY
<i>5073-S1</i>	<i>Env</i>	<i>See field survey form</i>	<i>9/20/01</i>	<i>Accept 1</i>	
<i>5073-S2</i>	↓	↓	↓		
<i>5073-S3</i>	↓				

\*All samples submitted to WEC Inc. shall be sealed in the appropriate container, cartridge, or collection vessel, shall be free of exterior dust or contamination, and pose no immediate or potential hazard to personnel during sample receiving and processing. When applicable, please include field blanks as required by sampling method. Client correspondence regarding acceptance criteria or other aspects of analytical request:



1130 Nimitz Hwy, #B220, Honolulu, HI 96817-0000

(808) 536-8819

FAX: (808) 536-0191

## Lead Analysis in Paint

WEC Project #: H01-931  
Client Project#:

Report #: 9172  
Report Date: 9/24/01

Client: Myounghee Noh & Associates, L.L.C.  
98-099 Uao Place #1101  
Aiea, HI 96701

Collected By: Client  
Collected Date: 9/20/01  
Analysis By: K.Wells  
Analysis Date: 9/24/01  
Received By: Santos, K.  
Received Date: 9/21/01

TAT: 2 Business Days # Samples: 23

Project /Name/Location: 5073-HDAA - O'okala

Client ID #	WEC ID#	Result	Result Units	Reporting Limit
5073-P1	L01-3590	2,400	ppm	710
5073-P2	L01-3591	250	ppm	170
5073-P3	L01-3592	< 92	ppm	92
5073-P4	L01-3593	1,300	ppm	140
5073-P5	L01-3594	1,100	ppm	110
5073-P6	L01-3595	700	ppm	130
5073-P7	L01-3596	62,000	ppm	77
5073-P8	L01-3597	75,000	ppm	180
5073-P9	L01-3598	76,000	ppm	85
5073-P10	L01-3599	29,000	ppm	93
5073-P11	L01-3600	87,000	ppm	59
5073-P12	L01-3801	< 330	ppm	330
5073-P13	L01-3602	120,000	ppm	92
5073-P14	L01-3603	100,000	ppm	67
5073-P15	L01-3804	88,000	ppm	70
5073-P16	L01-3605	48,000	ppm	73



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(808) 536-8819

FAX: (808) 536-0191

**Lead Analysis in Paint**

WEC Project #: H01-931  
Client Project#:

Report #: 9172  
Report Date: 9/24/01

Client ID #	WEC ID#	Result	Result Units	Reporting Limit
5073-P17	L01-3606	6,500	ppm	260
5073-P18	L01-3607	4,200	ppm	160
5073-P19	L01-3608	91,000	ppm	58
5073-P20	L01-3609	54,000	ppm	96
5073-P21	L01-3610	46,000	ppm	83
5073-P22	L01-3611	< 180	ppm	180
5073-P23	L01-3612	< 150	ppm	150

Comments:

Analyst Kenneth W. Wuu Date 9/24/01  
QC Daniel P. Bluff Date 09-24-01

Analysis performed by flame atomic absorption spectroscopy, EPA Method SW846-7420. The Reporting Limit is twice that of the Method Detection Limit (MDL) which is the minimum concentration of analyte that can be reported with 99% confidence that the analyte's concentration is greater than zero, and is determined from statistical analysis of replicate samples in a given matrix containing the analyte as defined in 40CFR Part 136, Appendix B. Any modifications that have been made to the previously referenced test methods are documented in WEC Inc.'s Standard Operating Procedures Manual. Supporting Laboratory Documentation is available upon request. WEC is a current proficient participant in the AIHA ELPAT program (Lab ID# 102739). Test reports must not be reproduced without the approval of WEC Inc., and are subject to WEC Inc. General Terms and Conditions (see reverse).



WHITE ENVIRONMENTAL CONSULTANTS INC.

1130 NIIMTZ HWY / H220 HONOLULU, HI 96817 PHONE (808) 536-0819 FAX (808) 536-0191

1 of 2

# Sample Chain of Custody

Client Name: <i>Myounghee Noh &amp; Associates</i>	Project Name: <i>5073-HDAA-O'okala</i>
Project Number: <i>5073 HDAA-O'okala</i>	
Samples Relinquished by: <i>Myounghee Noh</i>	Sample Received by: <i>Joanna Boyette</i>
Date: <i>9/21/01</i>	Date: <i>9/21/01</i>
Samples Relinquished by: <i>Joanna Boyette</i>	Sample Received by: <i>Shana Santos</i>
Date: <i>9/21/01</i>	Date: <i>9-21-01 12:30 pm</i>

Requested Analysis: **PCM PLM** **Lead** **Air Lead Wipe** **Paint** **Soil**  
**Bulk Arsenic** **TCLP for Lead** **8 Metal RCRA** **OTHER**

Client Number	Sample code	Sample Location	Collection Date	Samples Accept/Reject *See criterion below	Turn Around Time: RUSH, 24 hour, 48 hour, 72 hour, 5 day
<i>5073-P1</i>	<i>Env</i>	<i>See field survey form</i>	<i>9/20/01</i>	<i>Accepted</i>	
<i>-P2</i>					
<i>-P3</i>					
<i>-P4</i>					
<i>-P5</i>					
<i>-P6</i>					
<i>-P7</i>					
<i>-P8</i>					
<i>-P9</i>					
<i>-P10</i>					
<i>-P11</i>					
<i>-P12</i>					
<i>-P13</i>					
<i>-P14</i>					
<i>-P15</i>					

Sample Type Codes: (PCM/Lead air) FB-Field Blank BL-Baseline IWA-Inside Work Area OWA-Outside Work Area EXC-Excursion  
 PER-Personal ENV-Environmental CL-Clearance PLM-Bulk Building Material

\*All samples submitted to WEC Inc. shall be sealed in the appropriate container, cartridge, or collection vessel, shall be free of exterior dust or contamination, and pose no immediate or potential hazard to personnel during sample receiving and processing.

Client correspondence regarding acceptance criteria or other aspects of analytical request:

Building Survey, September 2001  
South Annex, O'okala Gym, Island of Hawaii

**APPENDIX D**  
**Inspector Certification**



# ***Globeteck Group Inc.***

544 Ohohia Street, Suite #2, Honolulu, HI 96819, Telephone: (808) 833-5787, Fax: (808) 833-5987

**is pleased to announce that**


**Caleb Etheridge**

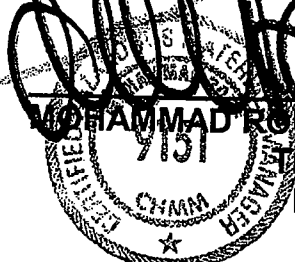
575-41-6866

has attended and successfully completed, in accordance with the Asbestos Hazard Emergency Response Act (40 CFR 763), Asbestos Building Inspector Refresher Training Course as prescribed by the United States Environmental Protection Agency (EPA) under Title II of the Toxic Substances Control Act (TSCA) and has passed an examination in that course with at least a minimum score of 70%. This training course is accredited by the state of Hawaii.

## **ASHERA Asbestos Building Inspector Refresher Training Certificate**

Certificate Number: GGI-ABIR010921-05E  
Place of Training: Honolulu, Hawaii  
Date of Course: September 21, 2001  
Date of Examination: September 21, 2001  
Date of Expiration: September 21, 2002

  
MOHAMMAD ROUF, MPH, CHMM  
Training Director  
Honolulu, Hawaii

A circular professional seal for Mohammad Rouf, MPH, CHMM. The seal contains the text "MOHAMMAD ROUF, MPH, CHMM" and "Training Director" around the perimeter. The number "9131" is visible in the center of the seal.

# University of California, Berkeley

## UNIVERSITY EXTENSION

This is to confirm that

Caleab Etheridge

has attended the eight hour

AHERA Refresher Course for Asbestos Contractors and Supervisors

and has completed the requisite training for asbestos accreditation under TSCA Title II

July 11, 2001



Certificate number: EM 716 CSR  
Valid until: July 11, 2002  
Cal/OSHA approval number: CA-002-04

*Richard V. Tsina*

Richard V. Tsina  
Chair, Environmental Management  
UC Berkeley Extension  
1995 University Avenue  
Berkeley, CA 94720  
(510) 643-7143

United States Environmental Protection Agency

This is to certify that

Myounghee Noh

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402(a)(1), and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226 as a Inspector

In the State of:

HAWAII

This certification is valid for three (3) years from the date of issuance and expires 11/29/03

HI-02-1120031792

Certification #

*[Signature]*  
Approving Official

November 29, 2000

Issued on

Senior Associate, Cross-Media Division  
Title



United States Environmental Protection Agency

This is to certify that

Myounghee Noh

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402(a)(1), and has received certification to conduct lead-based paint activities pursuant to 40 CFR 745.226 as a Risk Assessor

In the State of:

HAWAII

This certification is valid for three (3) years from the date of issuance and expires 11/29/2003

HI-02-1120031793

Certification #

November 29, 2000

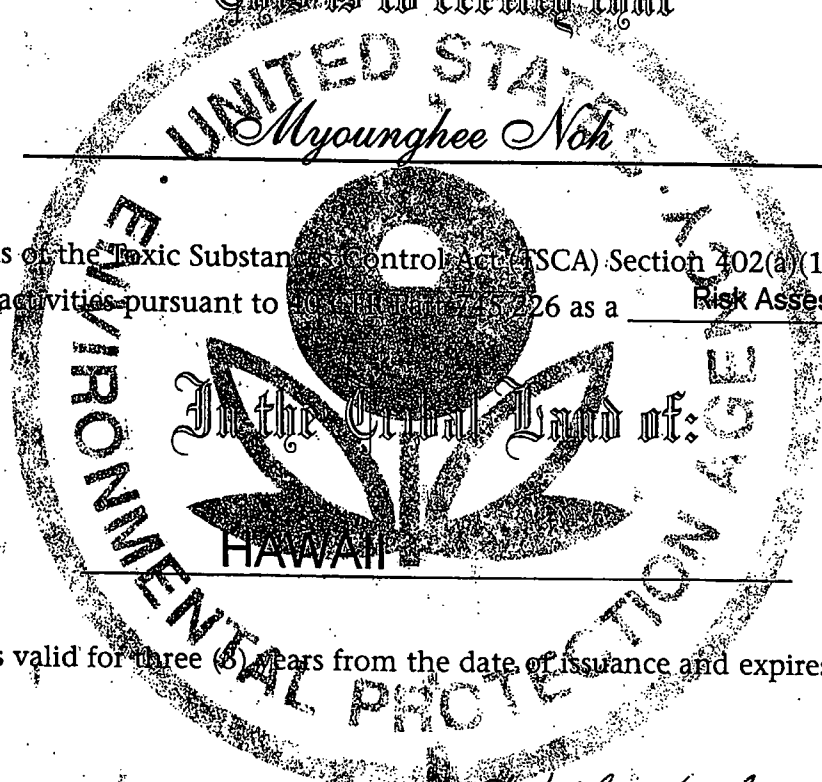
Issued on

*Ruthie Lopez*

Approving Official

Senior Associate, Cross-Media Division

Title





# ***Globeteck Group Inc.***

544 Ohohla Street, Suite #2, Honolulu, HI 96819, Telephone: (808) 833-5787

is pleased to announce that

***Myounghee Noh***

258-31-2416

has attended and successfully completed, in accordance with the Asbestos Hazard Emergency Response Act (40 CFR 763), Asbestos Building Inspector Refresher Training Course as prescribed by the United States Environmental Protection Agency (EPA) under Title II of the Toxic Substances Control Act (TSCA) and has passed an examination in that course with at least a minimum score of 70%.

## **AHERA Asbestos Building Inspector Refresher Training Certificate**

Certificate Number: GGI-ABIR063001-01N  
Place of Training: Honolulu, Hawaii  
Date of Course: June 30, 2001  
Date of Examination: June 30, 2001  
Date of Expiration: June 30, 2002

  
MOHAMMAD ROSHANMEH SHIMM  
Training Director ★  
Honolulu, Hawaii



# ***Globeteck Group Inc.***

544 Ohohia Street, Suite #2, Honolulu, HI 96819, Telephone: (808) 833-5787

is pleased to announce that

***Myounghee Noh***

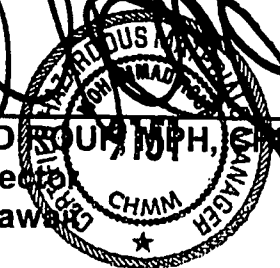
258-81-2416

has attended and successfully completed, in accordance with the Asbestos Hazard Emergency Response Act (40 CFR 763), Asbestos Project Designer Refresher Training Course as prescribed by the United States Environmental Protection Agency (EPA) under Title II of the Toxic Substances Control Act (TSCA) and has passed an examination in that course with at least a minimum score of 70%. This training course accredited by the state of Hawaii.

## **AHERA Asbestos Project Designer Refresher Training Certificate**

Certificate Number: GGLAPDR010922-02N  
Place of Training: Honolulu, Hawaii  
Date of Course: September 22, 2001  
Date of Examination: September 22, 2001  
Date of Expiration: September 22, 2002

  
**MOHAMMAD SOUPHAPHONGPHET**  
Training Director  
Honolulu, Hawaii





# ***Globeteck Group Inc.***

544 Ohohia Street, Suite #2, Honolulu, HI 96819, Telephone: (808) 833-5787, Fax: (808) 833-5987

**is pleased to announce that**


***Myounghee Noh***

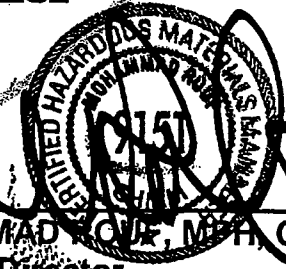
258-31-2416

has attended and successfully completed, in accordance with the Asbestos Hazard Emergency Response Act (40 CFR 763), Asbestos Management Planner Refresher Training Course as prescribed by the United States Environmental Protection Agency (EPA) under Title II of the Toxic Substances Control Act (TSCA) and has passed an examination in that course with at least a minimum score of 70%. This training course is accredited by the State of Hawaii.

## **AHERA Asbestos Management Planner Refresher Training Certificate**

Certificate Number: GGI-ABIR010921-01N  
Place of Training: Honolulu, Hawaii  
Date of Course: September 21, 2001  
Date of Examination: September 21, 2001  
Date of Expiration: September 21, 2002

  
MOHAMMAD YOUSEF, M.P.H., CHMM  
Training Director  
Honolulu, Hawaii



*Appendix D*  
*Topographic Maps, Sanborn*  
*Maps, Government Records*

**EDR Historical  
Topographic Map  
Report**

**O Okala Ball Park and Gym  
39-3200 Niu Village Road  
Ookala, HI 96774**

**Inquiry Number: 1911866.4**

**April 26, 2007**



**EDR® Environmental  
Data Resources Inc**

**The Standard in  
Environmental Risk  
Information**

**440 Wheelers Farms Rd  
Milford, Connecticut 06461**

**Nationwide Customer Service**

**Telephone: 1-800-352-0050  
Fax: 1-800-231-6802  
Internet: [www.edrnet.com](http://www.edrnet.com)**

# EDR Historical Topographic Map Report

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

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

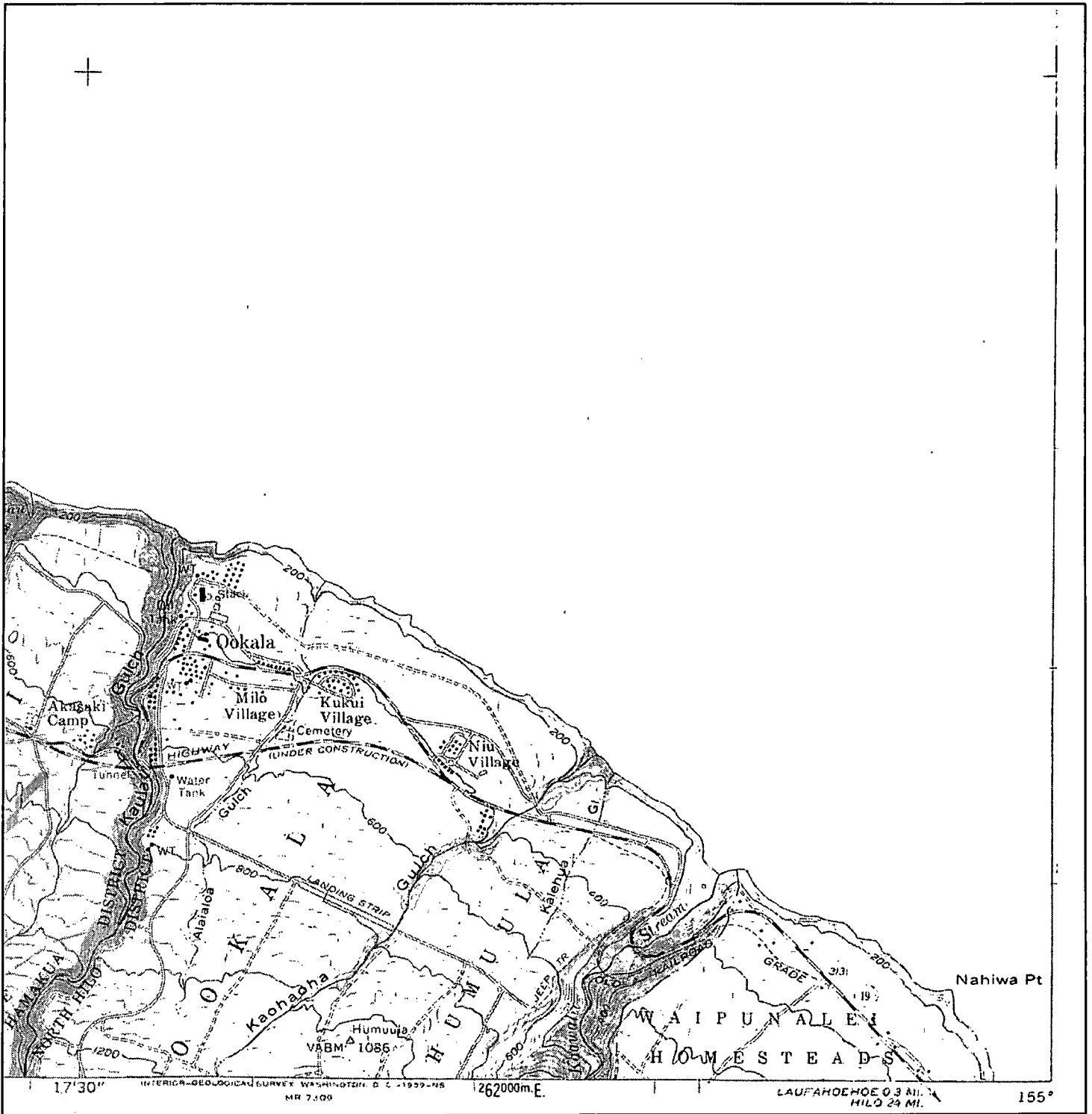
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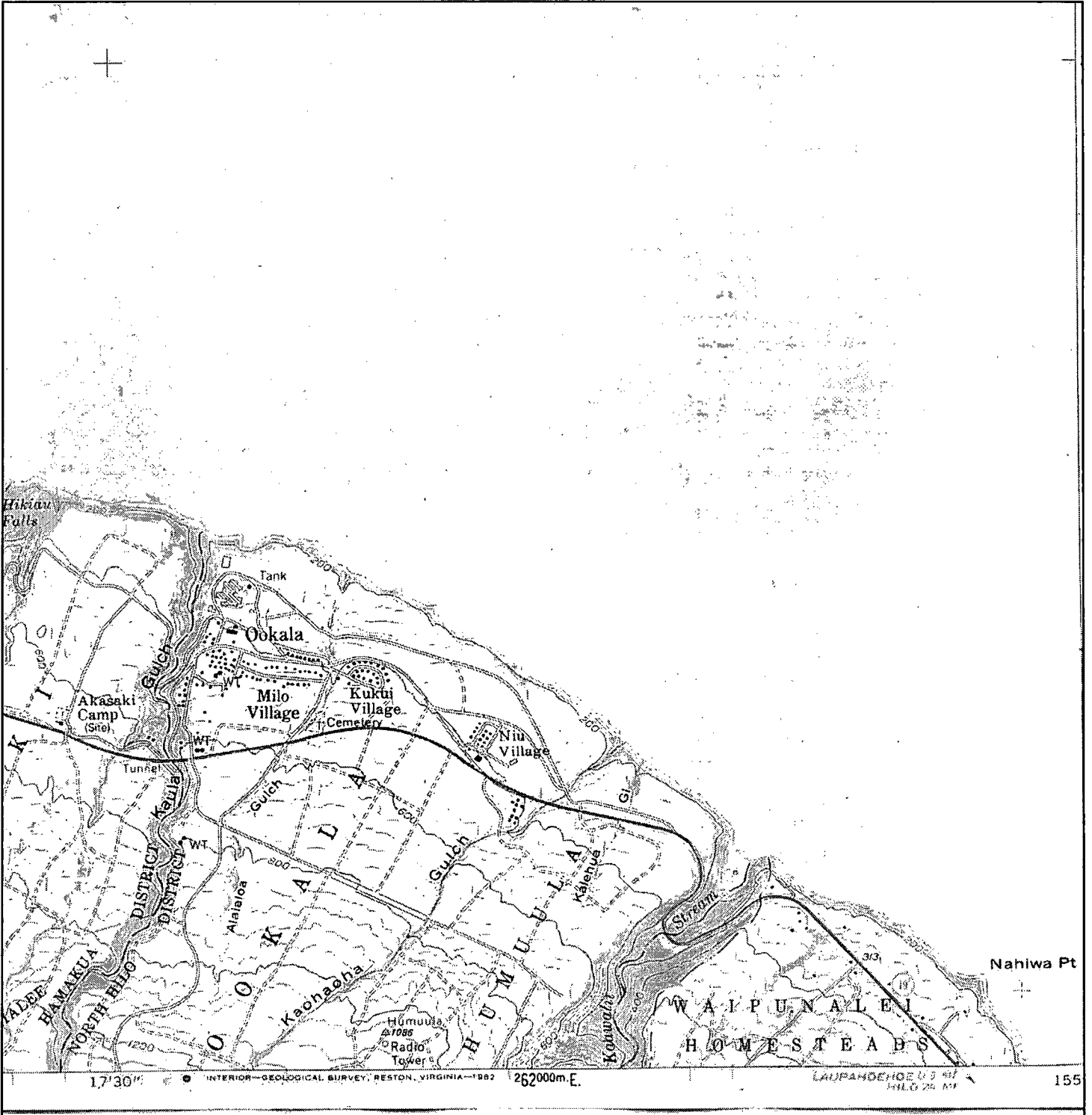
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# Historical Topographic Map



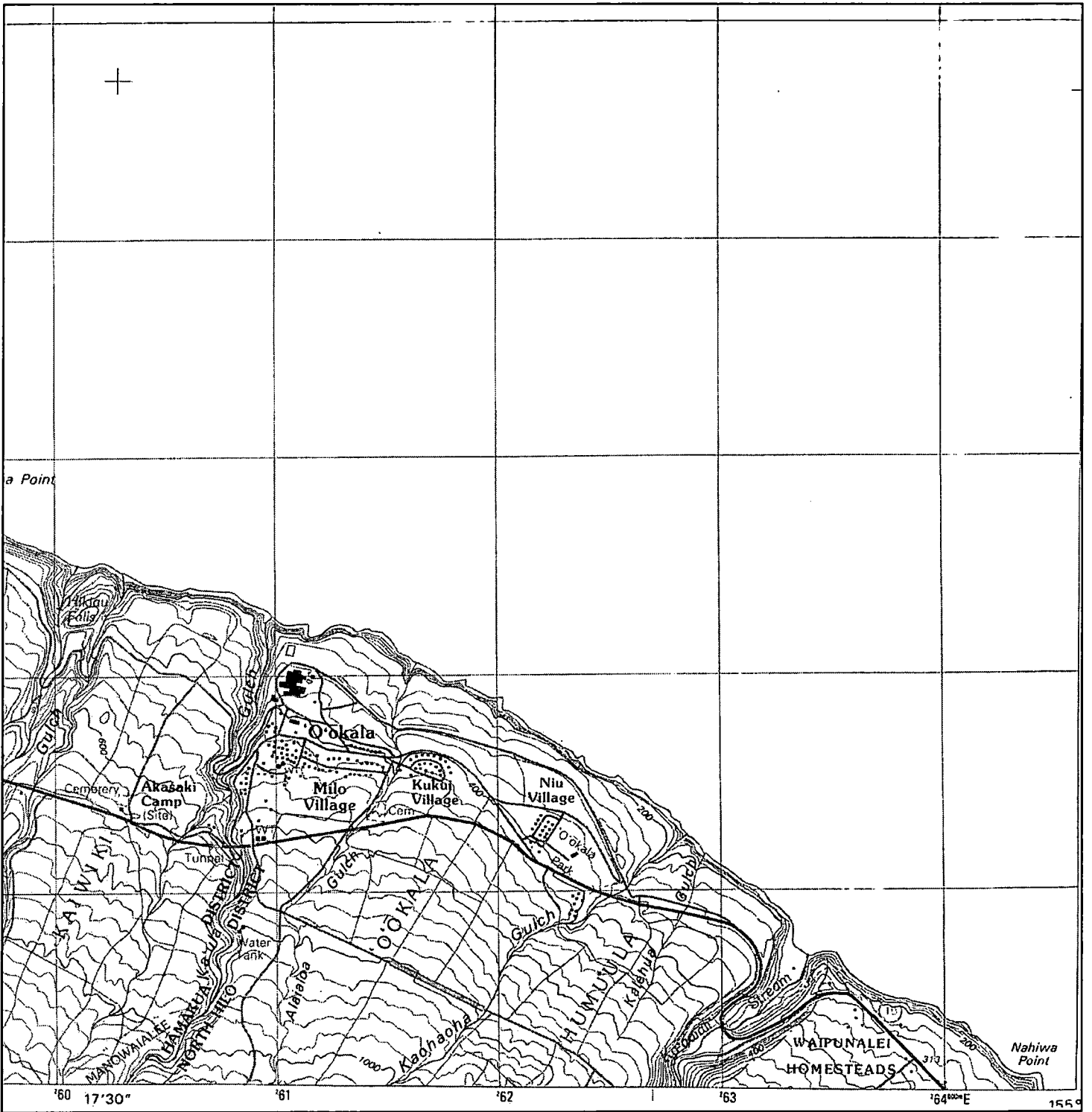
N ↑	<b>TARGET QUAD</b> NAME: Kukaiau, HI MAP YEAR: 1957	<b>SITE NAME:</b> O Okala Ball Park and Gym <b>ADDRESS:</b> 39-3200 Niu Village Road Ookala, HI 96774 <b>LAT/LONG:</b> 20.0103 / 155.2722	<b>CLIENT:</b> ERM <b>CONTACT:</b> Ashley Kerr <b>INQUIRY#:</b> 1911866.4 <b>RESEARCH DATE:</b> 04/26/2007
	SERIES: 7.5 SCALE: 1:24,000		


# Historical Topographic Map



<b>N</b> 	<b>TARGET QUAD</b> NAME: Kūkaʻiāu, HI MAP YEAR: 1982	<b>SITE NAME:</b> O Okala Ball Park and Gym <b>ADDRESS:</b> 39-3200 Niu Village Road Ookala, HI 96774 <b>LAT/LONG:</b> 20.0103 / 155.2722	<b>CLIENT:</b> ERM <b>CONTACT:</b> Ashley Kerr <b>INQUIRY#:</b> 1911866.4 <b>RESEARCH DATE:</b> 04/26/2007
	SERIES: 7.5 SCALE: 1:24,000		

# Historical Topographic Map



<b>N</b> 	<b>TARGET QUAD</b> NAME: Kukaiau, HI MAP YEAR: 1993	<b>SITE NAME:</b> O Okala Ball Park and Gym <b>ADDRESS:</b> 39-3200 Niu Village Road Ookala, HI 96774 <b>LAT/LONG:</b> 20.0103 / 155.2722	<b>CLIENT:</b> ERM <b>CONTACT:</b> Ashley Kerr <b>INQUIRY#:</b> 1911866.4 <b>RESEARCH DATE:</b> 04/26/2007
	<b>SERIES:</b> 7.5 <b>SCALE:</b> 1:24,000		



"Linking Technology with Tradition"®

## Sanborn® Map Report

**Ship To:** Ashley Kerr

ERM

733 Bishop Street

Honolulu, HI 96813

**Order Date:** 4/25/2007 **Completion Date:** 4/25/2007

**Inquiry #:** 1911866.3

**P.O. #:** NA

**Site Name:** O Okala Ball Park and Gym

**Address:** 39-3200 Niu Village Road

**City/State:** Oookala, HI 96774

**Customer Project:** 0050398.03.01

1891019BRU 808-521-4404

**Cross Streets:**

This document reports that the largest and most complete collection of Sanborn fire insurance maps has been reviewed based on client supplied information, and fire insurance maps depicting the target property at the specified address were not identified.

**NO COVERAGE**

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. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, 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, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report AS IS. Any analyses, estimates, ratings, 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.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Region IX  
75 Hawthorne Street (OPPA-2)  
San Francisco, CA 94105

June 12, 2007

Ms. Ashley Kerr  
Environmental Resources Management  
733 Bishop Street, Suite #1872  
Honolulu, HI, 96813

Re: Freedom of Information Act Request 09-RIN-00418-07

Dear Ms. Kerr:

This is in response to your Freedom of Information Act request of April 25, 2007 regarding Honu'apo Parcel, HI O'okala Ball Park and Gym, HI.

I wish to advise you that the Agency has no records responsive to your request. Under the FOIA, you have the right to appeal my no records determination to EPA, Office of Environmental Information, Records, Privacy, and FOIA Branch (2822T), 1200 Pennsylvania Avenue, N.W., Washington, DC 20460. The appeal must be made in writing, and it must be received at this address no later than 30 calendar days from the date of this letter.

The Agency will not consider appeals received after the 30-day limit. The appeal may include as much or as little related information as you wish, as long as it clearly identifies the determination being appealed (including the assigned FOIA request number (09-RIN-00418-07). For quickest possible handling, the appeal letter and its envelope should be marked "Freedom of Information Act Appeal".

If you have any questions, please contact me, FOIA Officer at (415) 947-4251.

Sincerely,

Ivry I. Johnson  
FOIA Officer  
Office of Public Affairs

Harry Kim  
Mayor



Darryl J. Oliveira  
Fire Chief

Glen P.I. Honda  
Deputy Fire Chief


**County of Hawai'i**  
**HAWAII FIRE DEPARTMENT**  
25 Aupuni Street • Suite 103 • Hilo, Hawai'i 96720  
(808) 981-8394 • Fax (808) 981-2037

May 7, 2007

Ashley Kerr  
Environmental Resources Management  
733 Bishop Street  
Suite 1872  
Honolulu, Hawaii 96813

RE: PHASE I ENVIRONMENTAL SITE ASSESSMENT (ESA)  
CURRENT OWNER: COUNTY OF HAWAII  
PROPERTY ADDRESS: O'OKALA BALL PARK AND GYM  
39-3200 NIU VILLAGE ROAD  
O'OKALA  
LEGAL DESCRIPTION: TMK 3-9-001:011

In reference to the above property, our office has no records of any environmentally-related activities, incidents, permits or issues.

  
DARRYL OLIVEIRA  
Fire Chief

PBE:lpc



ENTERED  
DEPARTMENT OF HEALTH  
2007 APR 26 P 1:27  
HEER OFFICE

Environmental  
Resources  
Management

733 Bishop Street  
Suite 1872  
Honolulu, HI 96813  
(808) 521-4404  
(808) 521-4408 (fax)



25 April 2007

Office of Hazard Evaluation and Emergency Response  
State Department of Health  
919 Ala Moana Boulevard, Room 206  
Honolulu, Hawaii 96814

Subject: Phase I Environmental Site Assessments (ESA)

Aloha Stan:

This letter is a request for information regarding any environmentally-related activities, including any incidents, issues, permits, or environmental records pertaining to the properties described as follows:

Name of property: O'okala Ball Park and Gym *NA*  
Current Owner: County of Hawaii  
Property Address: 39-3200 Niu Village Road  
O'okala  
Legal Identification: County of Hawaii TMK 3-9-001:011

Name of property: Honu'apo Parcel  
Current Owner: Hamakua Land and Cattle LLC  
Property Address: Mamalahoa Highway  
Kau District  
Legal Identification: County of Hawaii TMK 9-5-014:060

We would like to come to your office to review the documents once they are made available. Our telephone number is 521-4404 and our fax, 521-4408. We have included some maps to help in locating the sites. Feel free to call us if further clarification on our request is necessary. Thank you for your time and assistance.

Sincerely,

Ashley Kerr  
Consultant

\*\*No records of sitelist/location or  
TMK requested

*J. Rameib*  
J. Rameib 04/26/07

*[Signature]*  
Project Manager

*[Signature]*  
Date

**REQUEST FOR PUBLIC RECORD**

To: **DIRECTOR OF HEALTH**  
Department of Health  
1582 Kamehameha Avenue  
Hilo, HI 96720  
ATTN: Wastewater Branch

Phone: 933-0401  
Fax: 933-0400

The Following Department of Health record is hereby requested

*COPY*

**TMK ZONE 1 TO 4 ONLY**

TMK (3) 3 - 9 - 001:011

**CESSPOOL INFORMATION CARD**       **SEPTIC SYSTEM INFORMATION**

ASHLEY KERP  
Name of Requestor

Ashley Ker      5/11/07  
Signature      Date

ERM  
Company/Organization

733 Bishop St, Suite 1872  
Address Honolulu, HI 96813

808.521-4404      808.521-4408  
Phone      Fax

**For Department Use Only**

- NO CESSPOOL INFORMATION ON FILE
- CESSPOOL INFORMATION INCOMPLETE
- CESSPOOL DESIGN APPROVED ON \_\_\_\_\_
- ✓ BUT NO INSPECTION
- CESSPOOL INFORMATION APPROVED ON 6/17/02, 10/10/01
- NO SEPTIC SYSTEM INFORMATION ON FILE
- SEPTIC SYSTEM NOT INSPECTED
- SEPTIC SYSTEM NOT APPROVED (SEE ATTACHED LETTER)
- SEPTIC SYSTEM APPROVED ON \_\_\_\_\_ FOR \_\_\_\_\_ BEDROOMS
- OTHER: \_\_\_\_\_

[Signature]  
Deputy Director for Environmental Health  
Date \_\_\_\_\_

*Kiroshi Hiramoto*

San. Form 40

Dist. Oakala

STATE OF HAWAII - DEPARTMENT OF HEALTH  
ENVIRONMENTAL HEALTH DIVISION - SANITATION BRANCH  
SANITARIAN'S REPORT OF CESSPOOLS

Date 5-18-72

Property Owner Leupabechee Engen

Address Oakala New Housing 3-9-1-11

New Construction yes

Intended for Granged Cesspool Sewage System

Builder or Contractor Leup. Engen

Distance from building - Boundary 25'

Stream or well -

Diameter (clear)-ft. 26' x 10'

Depth-ft. 30'

No. ft. down to water if any -

Capacity (Gallons) -

Ground slope level

State soil or rock formation starting from surface 30' layer rock

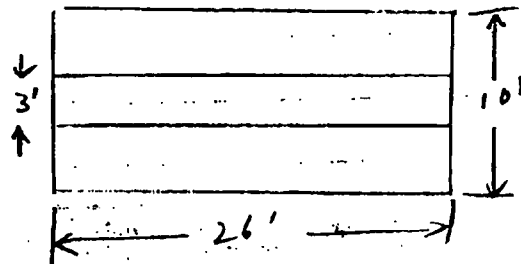
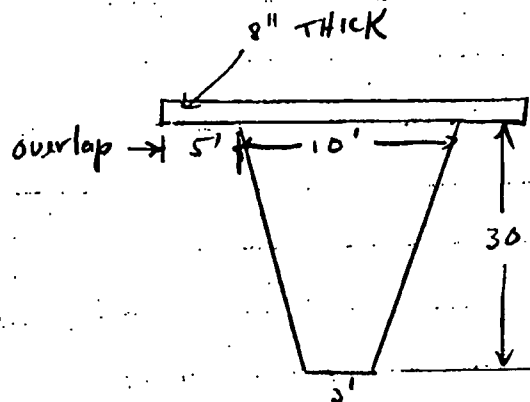
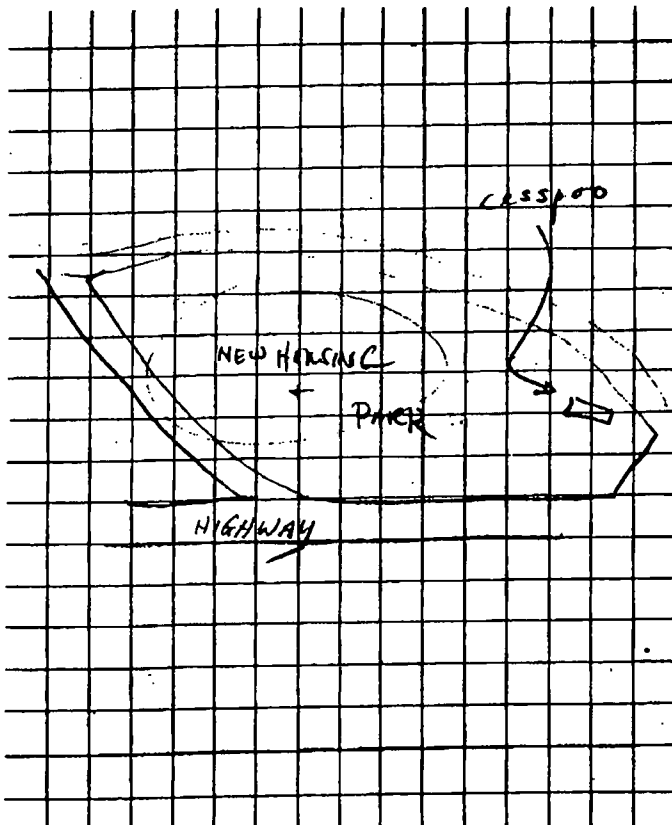
Kind of wall or curb natural

Kind of cover 4' x 20' x 8" precast slabs

Distance from surface of ground to top of cover-ft. 14'

Approved 5-20-72 19 PE Kerner

SANITARIAN



EXISTING CESSPOOL INFORMATION CARD

CCESSPOOL # 1

TMK: (3) 3-9-01:11 Lot No. KITCHEN

Property Owner: COUNTY OF HAWAII

Project Address: District:

Engineer: Contractor:

Distance from Building: 43 FEET Distance from Property Line: 50 FEET

Diameter (Clear) Feet: 6 Depth Feet: 12

No. Feet to Water Table: NO WATER IN CESSPOOL Type of Lining: FRACTURED ROCK

Distance from Finished Ground to Top of Cover (Feet): 1 FOOT

Distance from cover to liquid in cesspool: NO LIQUID Date cesspool last pumped: NOT PUMPED

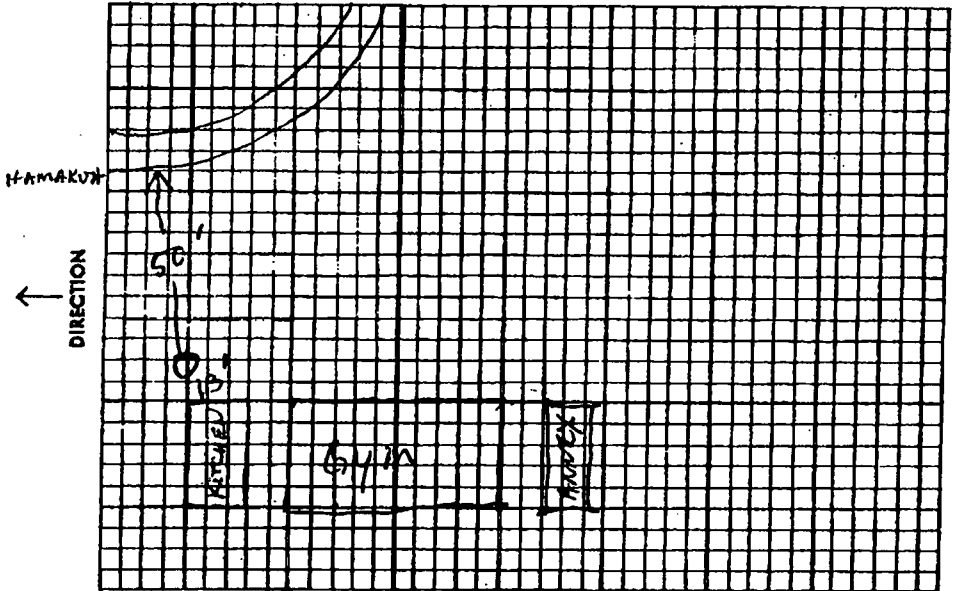
Date Inspected by Engineer/Contractor: 10/18/01 No. of bedrooms:

As the engineer/contractor performing the inspection, I submit the above information and the plot plan as drawn on the back of this card. I also submit that the existing cesspool is functioning, has not been pumped within the last twelve months, and does not discharge directly into the groundwater table.

Engineer's/Contractor's Signature and License Number: [Signature] PE-5119 Date: 10/29/01

OCEAN
↑
DIRECTION

REMARKS



H1LO

EXISTING CESSPOOL INFORMATION CARD

CESSPOOL # 2

TMK: (3) 3-9-01:11 Lot No. ANNEX

Property Owner: COUNTY OF HAWAII

Project Address: District:

Engineer: Contractor:

Distance from Building: 34 FEET Distance from Property Line: 50 FEET

Diameter (Clear) Feet: 6 Depth Feet: 12

No. Feet to Water Table: NO WATER IN CESSPOOLS Type of Lining: FRACTURED ROCK

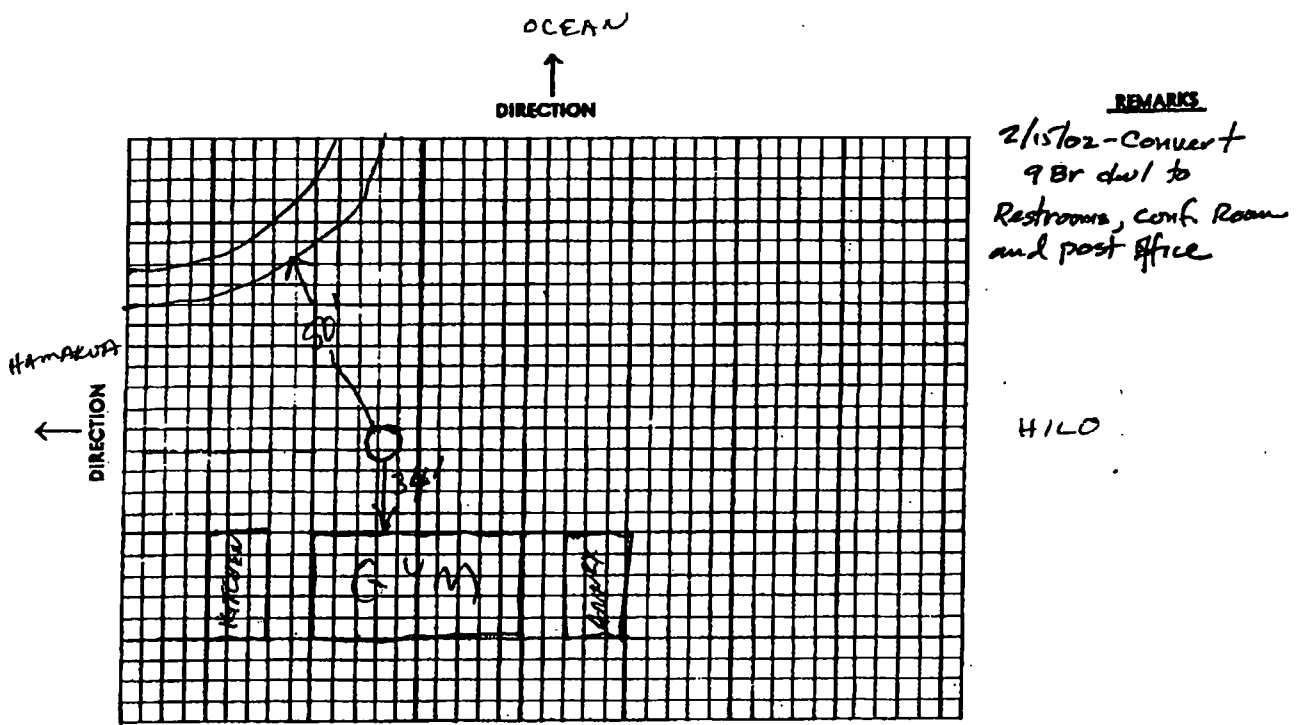
Distance from Finished Ground to Top of Cover (Feet): 2 FEET

Distance from cover to liquid in cesspool: NO LIQUID Date cesspool last pumped: NOT PUMPED

Date Inspected by Engineer/Contractor: 10/18/01 No. of bedrooms:

As the engineer/contractor performing the inspection, I submit the above information and the plot plan as drawn on the back of this card. I also submit that the existing cesspool is functioning, has not been pumped within the last twelve months, and does not discharge directly into the groundwater table.

Engineer's/Contractor's Signature and License Number: [Signature] PE-5119 Date: 10/29/01



*Appendix E*  
*Analytical Laboratory Report*

March 12, 2008

## LABORATORY REPORT

**Client:**

Environmental Resource Management  
733 Bishop Street, Suite 1872  
Honolulu, HI 96813  
Attn: Achie Reyes

Work Order: HRB0129  
Project Name: O'okala Gym & BP  
Project Number: 0050398  
Date Received: 02/21/08

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

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

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

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

Samples were received into laboratory at a temperature of 4 °C.

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

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

Approved By:



Laarni Carpio  
Project Manager

NELAC Certification # E87907

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

89-193 Aiea Heights Drive, Suite 121 Aiea, HI 96701 \* 808-486-5227 \* Fax 808-486-2456

Environmental Resource Management  
733 Bishop Street, Suite 1872  
Honolulu, HI 96813  
Achie Reyes

Work Order: HRB0129  
Project: O'okala Gym & BP  
Project Number: 0050398

Received: 02/21/08  
Reported: 03/12/08 14:02

<u>SAMPLE IDENTIFICATION</u>	<u>LAB NUMBER</u>	<u>COLLECTION DATE AND TIME</u>
DU01	HRB0129-01	02/19/08 10:30
DU02	HRB0129-02	02/19/08 10:15
DU03	HRB0129-03	02/19/08 12:05
DU04	HRB0129-04	02/19/08 14:30
DU05	HRB0129-05	02/19/08 10:45
DU06	HRB0129-06	02/19/08 11:30
EQR01	HRB0129-07	02/19/08 09:30

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

99-193 Aiea Heights Drive, Suite 121 Aiea, HI 96701 \* 808-488-5227 \* Fax 808-486-2456

Environmental Resource Management  
733 Bishop Street, Suite 1872  
Honolulu, HI 96813  
Achie Reyes

Work Order: HRB0129  
Project: O'okala Gym & BP  
Project Number: 0050398

Received: 02/21/08  
Reported: 03/12/08 14:02

## ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
<b>Sample ID: HRB0129-01 (DU01 - Solid/Soil)</b>						<b>Sampled: 02/19/08 10:30</b>		<b>Recvd: 02/21/08 14:00</b>	
<b>Organochlorine Pesticides/PCBs</b>									
4,4'-DDD	ND		mg/kg	0.00517	1	02/27/08 12:16	02/26/08	8B26011	SW8081A
4,4'-DDE	ND		"	0.00517	"	"	"	"	"
4,4'-DDT	ND		"	0.00517	"	"	"	"	"
Aldrin	ND		"	0.00517	"	"	"	"	"
alpha-BHC	ND		"	0.00517	"	"	"	"	"
beta-BHC	ND		"	0.00517	"	"	"	"	"
Chlordane	ND		"	0.0427	"	"	"	"	"
delta-BHC	ND		"	0.00517	"	"	"	"	"
Dieldrin	ND		"	0.00517	"	"	"	"	"
Endosulfan I	ND		"	0.00517	"	"	"	"	"
Endosulfan II	ND		"	0.00517	"	"	"	"	"
Endosulfan sulfate	ND		"	0.00517	"	"	"	"	"
Endrin	ND		"	0.00517	"	"	"	"	"
Endrin aldehyde	ND		"	0.00517	"	"	"	"	"
Endrin ketone	ND		"	0.00517	"	"	"	"	"
gamma-BHC (Lindane)	ND		"	0.00517	"	"	"	"	"
Heptachlor	ND		"	0.00517	"	"	"	"	"
Heptachlor epoxide	ND		"	0.00517	"	"	"	"	"
Methoxychlor	ND		"	0.0259	"	"	"	"	"
Toxaphene	ND		"	0.0647	"	"	"	"	"
alpha-Chlordane	ND		"	0.00517	"	"	"	"	"
gamma-Chlordane	ND		"	0.00517	"	"	"	"	"
<i>Surr: Decachlorobiphenyl (39.7-169%)</i>	57 %					"	"	"	"
<i>Surr: Tetrachloro-meta-xylene (35.9-169%)</i>	68 %					"	"	"	"
<b>TCLP Metals</b>									
Lead	ND		mg/L	0.200	1	02/27/08 16:30	02/27/08	8B27002	SW1311/6010B
<b>Total Metals by SW 846 Series Methods</b>									
Arsenic	6.21		mg/kg	4.76	1	03/04/08 10:43	02/29/08	8B29003	SW6010B
Lead	309		"	9.52	"	"	"	"	"

Environmental Resource Management 733 Bishop Street, Suite 1872 Honolulu, HI 96813 Achie Reyes	Work Order: HRB0129  Project: O'okala Gym & BP Project Number: 0050398	Received: 02/21/08 Reported: 03/12/08 14:02
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## ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
<b>Sample ID: HRB0129-02 (DU02 - Solid/Soil)</b>					<b>Sampled: 02/19/08 10:15</b>		<b>Recvd: 02/21/08 14:00</b>		
<b>Organochlorine Pesticides/PCBs</b>									
4,4'-DDD	ND		mg/kg	0.00585	1	02/27/08 12:29	02/26/08	8B26011	SW8081A
4,4'-DDE	ND		"	0.00585	"	"	"	"	"
4,4'-DDT	ND		"	0.00585	"	"	"	"	"
Aldrin	ND		"	0.00585	"	"	"	"	"
alpha-BHC	ND		"	0.00585	"	"	"	"	"
beta-BHC	ND		"	0.00585	"	"	"	"	"
Chlordane	ND		"	0.0483	"	"	"	"	"
delta-BHC	ND		"	0.00585	"	"	"	"	"
Dieldrin	ND		"	0.00585	"	"	"	"	"
Endosulfan I	ND		"	0.00585	"	"	"	"	"
Endosulfan II	ND		"	0.00585	"	"	"	"	"
Endosulfan sulfate	ND		"	0.00585	"	"	"	"	"
Endrin	ND		"	0.00585	"	"	"	"	"
Endrin aldehyde	ND		"	0.00585	"	"	"	"	"
Endrin ketone	ND		"	0.00585	"	"	"	"	"
gamma-BHC (Lindane)	ND		"	0.00585	"	"	"	"	"
Heptachlor	ND		"	0.00585	"	"	"	"	"
Heptachlor epoxide	ND		"	0.00585	"	"	"	"	"
Methoxychlor	ND		"	0.0293	"	"	"	"	"
Toxaphene	ND		"	0.0732	"	"	"	"	"
alpha-Chlordane	ND		"	0.00585	"	"	"	"	"
gamma-Chlordane	ND		"	0.00585	"	"	"	"	"
Surr: Decachlorobiphenyl (39.7-169%)	73 %					"	"	"	"
Surr: Tetrachloro-meta-xylene (35.9-169%)	67 %					"	"	"	"

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Environmental Resource Management 733 Bishop Street, Suite 1872 Honolulu, HI 96813 Achie Reyes	Work Order: HRB0129  Project: O'okala Gym & BP Project Number: 0050398	Received: 02/21/08 Reported: 03/12/08 14:02
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## ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
<b>Sample ID: HRB0129-03 (DU03 - Solid/Soil)</b>					<b>Sampled: 02/19/08 12:05</b>		<b>Recvd: 02/21/08 14:00</b>		
<b>Organochlorine Pesticides/PCBs</b>									
4,4'-DDD	ND		mg/kg	0.00577	1	02/27/08 12:43	02/26/08	8B26011	SW8031A
4,4'-DDE	ND		"	0.00577	"	"	"	"	"
4,4'-DDT	ND		"	0.00577	"	"	"	"	"
Aldrin	ND		"	0.00577	"	"	"	"	"
alpha-BHC	ND		"	0.00577	"	"	"	"	"
beta-BHC	ND		"	0.00577	"	"	"	"	"
Chlordane	ND		"	0.0476	"	"	"	"	"
delta-BHC	ND		"	0.00577	"	"	"	"	"
Dieldrin	ND		"	0.00577	"	"	"	"	"
Endosulfan I	ND		"	0.00577	"	"	"	"	"
Endosulfan II	ND		"	0.00577	"	"	"	"	"
Endosulfan sulfate	ND		"	0.00577	"	"	"	"	"
Endrin	ND		"	0.00577	"	"	"	"	"
Endrin aldehyde	ND		"	0.00577	"	"	"	"	"
Endrin ketone	ND		"	0.00577	"	"	"	"	"
gamma-BHC (Lindane)	ND		"	0.00577	"	"	"	"	"
Heptachlor	ND		"	0.00577	"	"	"	"	"
Heptachlor epoxide	ND		"	0.00577	"	"	"	"	"
Methoxychlor	ND		"	0.0288	"	"	"	"	"
Toxaphene	ND		"	0.0721	"	"	"	"	"
alpha-Chlordane	ND		"	0.00577	"	"	"	"	"
gamma-Chlordane	ND		"	0.00577	"	"	"	"	"
<i>Surr: Decachlorobiphenyl (39.7-169%)</i>	80 %					"	"	"	"
<i>Surr: Tetrachloro-meta-xylene (35.9-169%)</i>	67 %					"	"	"	"
<b>Total Metals by SW 846 Series Methods</b>									
Arsenic	ND		mg/kg	3.31	1	03/04/08 13:00	02/29/08	8B29003	SW6010B

Environmental Resource Management 733 Bishop Street, Suite 1872 Honolulu, HI 96813 Achie Reyes	Work Order: HRB0129 Project: O'okala Gym & BP Project Number: 0050398	Received: 02/21/08 Reported: 03/12/08 14:02
---	---	--

## ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
<b>Sample ID: HRB0129-04 (DU04 - Solid/Soil)</b>					<b>Sampled: 02/19/08 14:30</b>		<b>Recvd: 02/21/08 14:00</b>		
<b>Extractable Petroleum Hydrocarbons by 8015M</b>									
DRO	6.66		mg/kg	2.13	1	03/05/08 00:05	03/03/08	8C03001	SW8015M
RRO	149		"	21.3	"	"	"	"	"
<i>Surr: o-Terphenyl (34.7-135%)</i>	80 %					"	"	"	"
<b>Gasoline Range Organics/BTEX/MTBE by EPA 8015M/8260B</b>									
GRO	ND		mg/kg	0.494	1	03/01/08 17:37	03/01/08	8C03005	SW8015B/8260B
<i>Surr: Toluene-d8 (88.2-117%)</i>	115 %					"	"	"	"
<b>Organochlorine Pesticides/PCBs</b>									
4,4'-DDD	ND		mg/kg	0.00625	1	02/27/08 12:57	02/26/08	8B26011	SW8081A
4,4'-DDE	ND		"	0.00625	"	"	"	"	"
4,4'-DDT	ND		"	0.00625	"	"	"	"	"
Aldrin	ND		"	0.00625	"	"	"	"	"
alpha-BHC	ND		"	0.00625	"	"	"	"	"
beta-BHC	ND		"	0.00625	"	"	"	"	"
Chlordane	ND		"	0.0516	"	"	"	"	"
delta-BHC	ND		"	0.00625	"	"	"	"	"
Dieldrin	ND		"	0.00625	"	"	"	"	"
Endosulfan I	ND		"	0.00625	"	"	"	"	"
Endosulfan II	ND		"	0.00625	"	"	"	"	"
Endosulfan sulfate	ND		"	0.00625	"	"	"	"	"
Endrin	ND		"	0.00625	"	"	"	"	"
Endrin aldehyde	ND		"	0.00625	"	"	"	"	"
Endrin ketone	ND		"	0.00625	"	"	"	"	"
gamma-BHC (Lindane)	ND		"	0.00625	"	"	"	"	"
Heptachlor	ND		"	0.00625	"	"	"	"	"
Heptachlor epoxide	ND		"	0.00625	"	"	"	"	"
Methoxychlor	ND		"	0.0312	"	"	"	"	"
Toxaphene	ND		"	0.0781	"	"	"	"	"
alpha-Chlordane	ND		"	0.00625	"	"	"	"	"
gamma-Chlordane	ND		"	0.00625	"	"	"	"	"
<i>Surr: Decachlorobiphenyl (39.7-169%)</i>	76 %					"	"	"	"
<i>Surr: Tetrachloro-meta-xylene (35.9-169%)</i>	66 %					"	"	"	"
<b>Sample ID: HRB0129-04RE1 (DU04 - Solid/Soil)</b>					<b>Sampled: 02/19/08 14:30</b>		<b>Recvd: 02/21/08 14:00</b>		
<b>Semivolatile Organics by GC/MS</b>									
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.350	1	03/05/08 17:29	03/04/08	8C04001	SW8270C
1,2,4-Trichlorobenzene	ND		"	0.350	"	"	"	"	"
1,2-Dichlorobenzene	ND		"	0.350	"	"	"	"	"
1,3-Dichlorobenzene	ND		"	0.350	"	"	"	"	"
1,4-Dichlorobenzene	ND		"	0.350	"	"	"	"	"
1-Chloronaphthalene	ND		"	0.350	"	"	"	"	"
1-Methylnaphthalene	ND		"	0.350	"	"	"	"	"
1-Naphthylamine	ND		"	0.700	"	"	"	"	"
2,3,4,6-Tetrachlorophenol	ND		"	0.350	"	"	"	"	"
2,4,5-Trichlorophenol	ND		"	0.350	"	"	"	"	"
2,4,6-Trichlorophenol	ND		"	0.350	"	"	"	"	"

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Environmental Resource Management  
733 Bishop Street, Suite 1872  
Honolulu, HI 96813  
Achie Reyes

Work Order: HRB0129  
Project: O'okala Gym & BP  
Project Number: 0050398

Received: 02/21/08  
Reported: 03/12/08 14:02

## ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
<b>Sample ID: HRB0129-04RE1 (DU04 - Solid/Soil) - cont.</b>					<b>Sampled: 02/19/08 14:30</b>		<b>Recvd: 02/21/08 14:00</b>		
<b>Semivolatile Organics by GC/MS - cont.</b>									
2,4-Dichlorophenol	ND			0.350					
2,4-Dimethylphenol	ND			0.350					
2,4-Dinitrophenol	ND			1.80					
2,4-Dinitrotoluene	ND			0.700					
2,6-Dichlorophenol	ND			0.350					
2,6-Dinitrotoluene	ND			0.350					
2-Chloronaphthalene	ND			0.350					
2-Chlorophenol	ND			0.350					
2-Methylnaphthalene	ND			0.350					
2-Methylphenol (o-Cresol)	ND			0.350					
2-Naphthylamine	ND			0.700					
2-Nitroaniline	ND			1.80					
2-Nitrophenol	ND			0.350					
2-Picoline	ND			0.350					
3,3'-Dichlorobenzidine	ND			0.350					
3,4-Methylphenol (m,p-Cresol)	ND			0.350					
3-Methylcholanthrene	ND			0.350					
3-Nitroaniline	ND			1.80					
4,6-Dinitro-2-methylphenol	ND			1.80					
4-Aminobiphenyl	ND			0.700					
4-Bromophenyl phenyl ether	ND			0.350					
4-Chloro-3-methylphenol	ND			0.350					
4-Chloroaniline	ND			0.350					
4-Chlorophenyl phenyl ether	ND			0.350					
4-Nitroaniline	ND			0.350					
4-Nitrophenol	ND			1.80					
7,12-Dimethylbenz (a) anthracene	ND			0.350					
a,a-Dimethylphenethylamine	ND			1.80					
Acenaphthene	ND			0.350					
Acenaphthylene	ND			0.350					
Acetophenone	ND			0.350					
Aniline	ND			0.350					
Anthracene	ND			0.350					
Azobenzene	ND			0.350					
Benzidine	ND			1.80					
Benzo (a) anthracene	ND			0.350					
Benzo (a) pyrene	ND			0.350					
Benzo (b) fluoranthene	ND			0.350					
Benzo (g,h,i) perylene	ND			0.350					
Benzo (k) fluoranthene	ND			0.350					
Benzoic acid	ND			1.80					
Benzyl alcohol	ND			0.350					
Bis(2-chloroethoxy)methane	ND			0.350					
Bis(2-chloroethyl)ether	ND			0.350					
Bis(2-chloroisopropyl) ether	ND			0.350					
Bis(2-ethylhexyl)phthalate	ND			0.350					

Environmental Resource Management  
733 Bishop Street, Suite 1872  
Honolulu, HI 96813  
Achie Reyes

Work Order: HRB0129  
Project: O'okala Gym & BP  
Project Number: 0050398

Received: 02/21/08  
Reported: 03/12/08 14:02

## ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
<b>Sample ID: HRB0129-04RE1 (DU04 - Solid/Soil) - cont.</b>					<b>Sampled: 02/19/08 14:30</b>		<b>Recvd: 02/21/08 14:00</b>		
<b>Semivolatile Organics by GC/MS - cont.</b>									
Butyl benzyl phthalate	ND		"	0.350	"	"	"	"	"
Chrysene	ND		"	0.350	"	"	"	"	"
Dibenz (a,j) acridine	ND		"	0.350	"	"	"	"	"
Dibenzo (a,h) anthracene	ND		"	0.350	"	"	"	"	"
Dibenzofuran	ND		"	0.350	"	"	"	"	"
Diethyl phthalate	ND		"	0.350	"	"	"	"	"
Dimethyl phthalate	ND		"	0.350	"	"	"	"	"
Dimethylaminoazobenzene	ND		"	0.700	"	"	"	"	"
Di-n-butyl phthalate	ND		"	0.350	"	"	"	"	"
Di-n-octyl phthalate	ND		"	0.350	"	"	"	"	"
Ethyl Methanesulfonate	ND		"	0.350	"	"	"	"	"
Fluoranthene	ND		"	0.350	"	"	"	"	"
Fluorene	ND		"	0.350	"	"	"	"	"
Hexachlorobenzene	ND		"	0.350	"	"	"	"	"
Hexachlorobutadiene	ND		"	0.350	"	"	"	"	"
Hexachlorocyclopentadiene	ND		"	0.350	"	"	"	"	"
Hexachloroethane	ND		"	0.350	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND		"	0.350	"	"	"	"	"
Isophorone	ND		"	0.350	"	"	"	"	"
Methyl Methanesulfonate	ND		"	0.700	"	"	"	"	"
Naphthalene	ND		"	0.350	"	"	"	"	"
Nitrobenzene	ND		"	0.350	"	"	"	"	"
N-Nitrosodimethylamine	ND		"	0.350	"	"	"	"	"
N-Nitrosodi-n-butylamine	ND		"	0.350	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND		"	0.350	"	"	"	"	"
N-Nitrosodiphenylamine	ND		"	0.350	"	"	"	"	"
N-Nitrosopiperidine	ND		"	0.350	"	"	"	"	"
Pentachloronitrobenzene	ND		"	0.350	"	"	"	"	"
Pentachlorophenol	ND		"	1.80	"	"	"	"	"
Phenacetin	ND		"	0.350	"	"	"	"	"
Phenanthrene	ND		"	0.350	"	"	"	"	"
Phenol	ND		"	0.350	"	"	"	"	"
Pronamide	ND		"	0.350	"	"	"	"	"
Pyrene	ND		"	0.350	"	"	"	"	"
Pyridine	ND		"	0.350	"	"	"	"	"
<i>Surr: 2,4,6-Tribromophenol (52.6-114%)</i>	59 %								
<i>Surr: 2-Fluorobiphenyl (45.9-108%)</i>	67 %								
<i>Surr: 2-Fluorophenol (39.4-103%)</i>	49 %								
<i>Surr: Nitrobenzene-d5 (37.2-107%)</i>	63 %								
<i>Surr: Phenol-d6 (49.6-105%)</i>	52 %								
<i>Surr: Terphenyl-d14 (45.7-133%)</i>	64 %								

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Environmental Resource Management 733 Bishop Street, Suite 1872 Honolulu, HI 96813 Achie Reyes	Work Order: HRB0129  Project: O'okala Gym & BP Project Number: 0050398	Received: 02/21/08 Reported: 03/12/08 14:02
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## ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
Sample ID: HRB0129-05 (DU05 - Solid/Soil)				Sampled: 02/19/08 10:45			Recvd: 02/21/08 14:00		
Organochlorine Pesticides/PCBs									
4,4'-DDD	ND		mg/kg	0.00622	1	02/27/08 13:11	02/26/08	8B26011	SW8081A
4,4'-DDE	ND		"	0.00622	"	"	"	"	"
4,4'-DDT	ND		"	0.00622	"	"	"	"	"
Aldrin	ND		"	0.00622	"	"	"	"	"
alpha-BHC	ND		"	0.00622	"	"	"	"	"
beta-BHC	ND		"	0.00622	"	"	"	"	"
Chlordane	ND		"	0.0513	"	"	"	"	"
delta-BHC	ND		"	0.00622	"	"	"	"	"
Dieldrin	ND		"	0.00622	"	"	"	"	"
Endosulfan I	ND		"	0.00622	"	"	"	"	"
Endosulfan II	ND		"	0.00622	"	"	"	"	"
Endosulfan sulfate	ND		"	0.00622	"	"	"	"	"
Endrin	ND		"	0.00622	"	"	"	"	"
Endrin aldehyde	ND		"	0.00622	"	"	"	"	"
Endrin ketone	ND		"	0.00622	"	"	"	"	"
gamma-BHC (Lindane)	ND		"	0.00622	"	"	"	"	"
Heptachlor	ND		"	0.00622	"	"	"	"	"
Heptachlor epoxide	ND		"	0.00622	"	"	"	"	"
Methoxychlor	ND		"	0.0311	"	"	"	"	"
Toxaphene	ND		"	0.0777	"	"	"	"	"
alpha-Chlordane	ND		"	0.00622	"	"	"	"	"
gamma-Chlordane	ND		"	0.00622	"	"	"	"	"
Surr: Decachlorobiphenyl (39.7-169%)	76 %								
Surr: Tetrachloro-meta-xylene (35.9-169%)	67 %								

Environmental Resource Management 733 Bishop Street, Suite 1872 Honolulu, HI 96813 Achie Reyes	Work Order: HRB0129  Project: O'okala Gym & BP Project Number: 0050398	Received: 02/21/08 Reported: 03/12/08 14:02
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## ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
<b>Sample ID: HRB0129-06 (DU06 - Solid/Soil)</b>					<b>Sampled: 02/19/08 11:30</b>		<b>Recvd: 02/21/08 14:00</b>		
<b>Organochlorine Pesticides/PCBs</b>									
4,4'-DDD	ND		mg/kg	0.00574	1	02/27/08 13:25	02/26/08	8B26011	SW8081A
4,4'-DDE	ND		"	0.00574	"	"	"	"	"
4,4'-DDT	ND		"	0.00574	"	"	"	"	"
Aldrin	ND		"	0.00574	"	"	"	"	"
alpha-BHC	ND		"	0.00574	"	"	"	"	"
beta-BHC	ND		"	0.00574	"	"	"	"	"
Chlordane	ND		"	0.0474	"	"	"	"	"
delta-BHC	ND		"	0.00574	"	"	"	"	"
Dieldrin	ND		"	0.00574	"	"	"	"	"
Endosulfan I	ND		"	0.00574	"	"	"	"	"
Endosulfan II	ND		"	0.00574	"	"	"	"	"
Endosulfan sulfate	ND		"	0.00574	"	"	"	"	"
Endrin	ND		"	0.00574	"	"	"	"	"
Endrin aldehyde	ND		"	0.00574	"	"	"	"	"
Endrin ketone	ND		"	0.00574	"	"	"	"	"
gamma-BHC (Lindane)	ND		"	0.00574	"	"	"	"	"
Heptachlor	ND		"	0.00574	"	"	"	"	"
Heptachlor epoxide	ND		"	0.00574	"	"	"	"	"
Methoxychlor	ND		"	0.0287	"	"	"	"	"
Toxaphene	ND		"	0.0718	"	"	"	"	"
alpha-Chlordane	ND		"	0.00574	"	"	"	"	"
gamma-Chlordane	ND		"	0.00574	"	"	"	"	"
Surr: Decachlorobiphenyl (39.7-169%)	64 %					"	"	"	"
Surr: Tetrachloro-meta-xylene (35.9-169%)	73 %					"	"	"	"

Environmental Resource Management 733 Bishop Street, Suite 1872 Honolulu, HI 96813 Achie Reyes	Work Order: HRB0129  Project: O'okala Gym & BP Project Number: 0050398	Received: 02/21/08 Reported: 03/12/08 14:02
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## ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
<b>Sample ID: HRB0129-07 (EQR01 - Water - NonPotable)</b>						<b>Sampled: 02/19/08 09:30</b>		<b>Recvd: 02/21/08 14:00</b>	
<b>Organochlorine Pesticides/PCBs</b>									
4,4'-DDD	ND		ug/L	0.108	1	02/27/08 09:56	02/25/08	8B25015	SW8081A
4,4'-DDE	ND		"	0.108	"	"	"	"	"
4,4'-DDT	ND		"	0.108	"	"	"	"	"
Aldrin	ND		"	0.108	"	"	"	"	"
alpha-BHC	ND		"	0.0541	"	"	"	"	"
beta-BHC	ND		"	0.0541	"	"	"	"	"
Chlordane	ND		"	1.08	"	"	"	"	"
delta-BHC	ND		"	0.108	"	"	"	"	"
Dieldrin	ND		"	0.108	"	"	"	"	"
Endosulfan I	ND		"	0.0541	"	"	"	"	"
Endosulfan II	ND		"	0.108	"	"	"	"	"
Endosulfan sulfate	ND		"	0.108	"	"	"	"	"
Endrin	ND		"	0.108	"	"	"	"	"
Endrin aldehyde	ND		"	0.216	"	"	"	"	"
Endrin ketone	ND		"	0.108	"	"	"	"	"
gamma-BHC (Lindane)	ND		"	0.0541	"	"	"	"	"
Heptachlor	ND		"	0.108	"	"	"	"	"
Heptachlor epoxide	ND		"	0.0541	"	"	"	"	"
Methoxychlor	ND		"	0.541	"	"	"	"	"
Toxaphene	ND		"	5.41	"	"	"	"	"
alpha-Chlordane	ND		"	0.162	"	"	"	"	"
gamma-Chlordane	ND		"	0.432	"	"	"	"	"
Surr: Decachlorobiphenyl (39.7-169%)	68 %					"	"	"	"
Surr: Tetrachloro-meta-xylene (33-138%)	115 %					"	"	"	"
<b>Total Metals by SW 846 Series Methods</b>									
Lead	ND		ug/L	5.00	1	02/27/08 10:40	02/26/08	8B26005	SW6010B

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Environmental Resource Management 733 Bishop Street, Suite 1872 Honolulu, HI 96813 Achie Reyes	Work Order: HRB0129  Project: O'okala Gym & BP Project Number: 0050398	Received: 02/21/08 Reported: 03/12/08 14:02
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## LABORATORY BLANK QC DATA

Analyte	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	Limit	Q
<b>Extractable Petroleum Hydrocarbons by 8015M</b>													
<u>Batch\Seq: 8C03001 Extracted: 03/03/08</u>													
Blank Analyzed: 03/05/2008 (8C03001-BLK1)													
DRO			mg/kg	N/A	2.00	ND							
RRO			mg/kg	N/A	20.0	ND							
Surrogate: o-Terphenyl			mg/kg					71		34.7-135			
<b>Gasoline Range Organics/BTEX/MTBE by EPA 8015M/8260B</b>													
<u>Batch\Seq: 8C03005 Extracted: 03/01/08</u>													
Blank Analyzed: 03/01/2008 (8C03005-BLK1)													
GRO			mg/kg	N/A	0.500	ND							
Surrogate: Toluene-d8			mg/kg					102		88.2-117			
<b>Organochlorine Pesticides/PCBs</b>													
<u>Batch\Seq: 8B25015 Extracted: 02/25/08</u>													
Blank Analyzed: 02/27/2008 (8B25015-BLK1)													
4,4'-DDD			ug/L	N/A	0.100	ND							
4,4'-DDE			ug/L	N/A	0.100	ND							
4,4'-DDT			ug/L	N/A	0.100	ND							
Aldrin			ug/L	N/A	0.100	ND							
alpha-BHC			ug/L	N/A	0.0500	ND							
beta-BHC			ug/L	N/A	0.0500	ND							
Chlordane			ug/L	N/A	1.00	ND							
delta-BHC			ug/L	N/A	0.100	ND							
Dieldrin			ug/L	N/A	0.100	ND							
Endosulfan I			ug/L	N/A	0.0500	ND							
Endosulfan II			ug/L	N/A	0.100	ND							
Endosulfan sulfate			ug/L	N/A	0.100	ND							
Endrin			ug/L	N/A	0.100	ND							
Endrin aldehyde			ug/L	N/A	0.200	ND							
Endrin ketone			ug/L	N/A	0.100	ND							
gamma-BHC (Lindane)			ug/L	N/A	0.0500	ND							
Heptachlor			ug/L	N/A	0.100	ND							
Heptachlor epoxide			ug/L	N/A	0.0500	ND							
Methoxychlor			ug/L	N/A	0.500	ND							
Toxaphene			ug/L	N/A	5.00	ND							
alpha-Chlordane			ug/L	N/A	0.150	ND							
gamma-Chlordane			ug/L	N/A	0.400	ND							
Surrogate: Decachlorobiphenyl			ug/L					72		39.7-169			
Surrogate: Tetrachloro-meta-xylene			ug/L					73		33-138			
<u>Batch\Seq: 8B26011 Extracted: 02/26/08</u>													
Blank Analyzed: 02/27/2008 (8B26011-BLK1)													
4,4'-DDD			mg/kg	N/A	0.000120	ND							
4,4'-DDE			mg/kg	N/A	0.000120	ND							
4,4'-DDT			mg/kg	N/A	0.000120	ND							
Aldrin			mg/kg	N/A	0.000120	ND							
alpha-BHC			mg/kg	N/A	0.000120	ND							
beta-BHC			mg/kg	N/A	0.000120	ND							

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Environmental Resource Management 733 Bishop Street, Suite 1872 Honolulu, HI 96813 Achie Reyes	Work Order: HRB0129	Received: 02/21/08 Reported: 03/12/08 14:02
	Project: O'okala Gym & BP	
	Project Number: 0050398	

## LABORATORY BLANK QC DATA

Analyte	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
<b>Organochlorine Pesticides/PCBs</b>													
<b>Batch\Seq: 8B26011 Extracted: 02/26/08</b>													
<b>Blank Analyzed: 02/27/2008 (8B26011-BLK1)</b>													
Chlordane			mg/kg	N/A	0.000990	ND							
delta-BHC			mg/kg	N/A	0.000120	ND							
Dieldrin			mg/kg	N/A	0.000120	ND							
Endosulfan I			mg/kg	N/A	0.000120	ND							
Endosulfan II			mg/kg	N/A	0.000120	ND							
Endosulfan sulfate			mg/kg	N/A	0.000120	ND							
Endrin			mg/kg	N/A	0.000120	ND							
Endrin aldehyde			mg/kg	N/A	0.000120	ND							
Endrin ketone			mg/kg	N/A	0.000120	ND							
gamma-BHC (Lindane)			mg/kg	N/A	0.000120	ND							
Heptachlor			mg/kg	N/A	0.000120	ND							
Heptachlor epoxide			mg/kg	N/A	0.000120	ND							
Methoxychlor			mg/kg	N/A	0.000600	ND							
Toxaphene			mg/kg	N/A	0.00150	ND							
alpha-Chlordane			mg/kg	N/A	0.000120	ND							
gamma-Chlordane			mg/kg	N/A	0.000120	ND							
Surrogate: Decachlorobiphenyl			mg/kg						70			39.7-169	
Surrogate: Tetrachloro-meta-xylene			mg/kg						69			35.9-169	

## Semivolatile Organics by GC/MS

**Batch\Seq: 8C04001 Extracted: 03/04/08**

**Blank Analyzed: 03/05/2008-03/11/2008 (8C04001-BLK1)**

1,2,4,5-Tetrachlorobenzene			mg/kg	N/A	0.330	ND							
1,2,4-Trichlorobenzene			mg/kg	N/A	0.330	ND							
1,2-Dichlorobenzene			mg/kg	N/A	0.330	ND							
1,3-Dichlorobenzene			mg/kg	N/A	0.330	ND							
1,4-Dichlorobenzene			mg/kg	N/A	0.330	ND							
1-Chloronaphthalene			mg/kg	N/A	0.330	ND							
1-Methylnaphthalene			mg/kg	N/A	0.330	ND							
1-Naphthylamine			mg/kg	N/A	0.660	ND							
2,3,4,6-Tetrachlorophenol			mg/kg	N/A	0.330	ND							
2,4,5-Trichlorophenol			mg/kg	N/A	0.330	ND							
2,4,6-Trichlorophenol			mg/kg	N/A	0.330	ND							
2,4-Dichlorophenol			mg/kg	N/A	0.330	ND							
2,4-Dimethylphenol			mg/kg	N/A	0.330	ND							
2,4-Dinitrophenol			mg/kg	N/A	1.70	ND							
2,4-Dinitrotoluene			mg/kg	N/A	0.660	ND							
2,6-Dichlorophenol			mg/kg	N/A	0.330	ND							
2,6-Dinitrotoluene			mg/kg	N/A	0.330	ND							
2-Chloronaphthalene			mg/kg	N/A	0.330	ND							
2-Chlorophenol			mg/kg	N/A	0.330	ND							
2-Methylnaphthalene			mg/kg	N/A	0.330	ND							
2-Methylphenol (o-Cresol)			mg/kg	N/A	0.330	ND							
2-Naphthylamine			mg/kg	N/A	0.660	ND							
2-Nitroaniline			mg/kg	N/A	1.70	ND							

Environmental Resource Management  
733 Bishop Street, Suite 1872  
Honolulu, HI 96813  
Achie Reyes

Work Order: HRB0129  
Project: O'okala Gym & BP  
Project Number: 0050398

Received: 02/21/08  
Reported: 03/12/08 14:02

## LABORATORY BLANK QC DATA

Analyte	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD Limit	Q
<b>Semivolatile Organics by GC/MS</b>												
<b>Batch\Seq: 8C04001 Extracted: 03/04/08</b>												
<b>Blank Analyzed: 03/05/2008-03/11/2008 (8C04001-BLK1)</b>												
2-Nitrophenol			mg/kg	N/A	0.330	ND						
2-Picoline			mg/kg	N/A	0.330	ND						
3,3'-Dichlorobenzidine			mg/kg	N/A	0.330	ND						
3,4-Methylphenol (m,p-Cresol)			mg/kg	N/A	0.330	ND						
3-Methylcholanthrene			mg/kg	N/A	0.330	ND						
3-Nitroaniline			mg/kg	N/A	1.70	ND						
4,6-Dinitro-2-methylphenol			mg/kg	N/A	1.70	ND						
4-Aminobiphenyl			mg/kg	N/A	0.660	ND						
4-Bromophenyl phenyl ether			mg/kg	N/A	0.330	ND						
4-Chloro-3-methylphenol			mg/kg	N/A	0.330	ND						
4-Chloroaniline			mg/kg	N/A	0.330	ND						
4-Chlorophenyl phenyl ether			mg/kg	N/A	0.330	ND						
4-Nitroaniline			mg/kg	N/A	0.330	ND						
4-Nitrophenol			mg/kg	N/A	1.70	ND						
7,12-Dimethylbenz (a) anthracene			mg/kg	N/A	0.330	ND						
a,a-Dimethylphenethylamine			mg/kg	N/A	1.70	ND						
Acenaphthene			mg/kg	N/A	0.330	ND						
Acenaphthylene			mg/kg	N/A	0.330	ND						
Acetophenone			mg/kg	N/A	0.330	ND						
Aniline			mg/kg	N/A	0.330	ND						
Anthracene			mg/kg	N/A	0.330	ND						
Azobenzene			mg/kg	N/A	0.330	ND						
Benzidine			mg/kg	N/A	1.70	ND						
Benzo (a) anthracene			mg/kg	N/A	0.330	ND						
Benzo (a) pyrene			mg/kg	N/A	0.330	ND						
Benzo (b) fluoranthene			mg/kg	N/A	0.330	ND						
Benzo (g,h,i) perylene			mg/kg	N/A	0.330	ND						
Benzo (k) fluoranthene			mg/kg	N/A	0.330	ND						
Benzoic acid			mg/kg	N/A	1.70	ND						
Benzyl alcohol			mg/kg	N/A	0.330	ND						
Bis(2-chloroethoxy)methane			mg/kg	N/A	0.330	ND						
Bis(2-chloroethyl)ether			mg/kg	N/A	0.330	ND						
Bis(2-chloroisopropyl) ether			mg/kg	N/A	0.330	ND						
Bis(2-ethylhexyl)phthalate			mg/kg	N/A	0.330	ND						
Butyl benzyl phthalate			mg/kg	N/A	0.330	ND						
Chrysene			mg/kg	N/A	0.330	ND						
Dibenz (a,j) acridine			mg/kg	N/A	0.330	ND						
Dibenzo (a,h) anthracene			mg/kg	N/A	0.330	ND						
Dibenzofuran			mg/kg	N/A	0.330	ND						
Diethyl phthalate			mg/kg	N/A	0.330	ND						
Dimethyl phthalate			mg/kg	N/A	0.330	ND						
Dimethylaminoazobenzene			mg/kg	N/A	0.660	ND						
Di-n-butyl phthalate			mg/kg	N/A	0.330	ND						
Di-n-octyl phthalate			mg/kg	N/A	0.330	ND						
Ethyl Methanesulfonate			mg/kg	N/A	0.330	ND						

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THE LEADER IN ENVIRONMENTAL TESTING

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Environmental Resource Management  
733 Bishop Street, Suite 1872  
Honolulu, HI 96813  
Achie Reyes

Work Order: HRB0129  
Project: O'okala Gym & BP  
Project Number: 0050398

Received: 02/21/08  
Reported: 03/12/08 14:02

## LABORATORY BLANK QC DATA

Analyte	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	Limit	Q
<b>Semivolatile Organics by GC/MS</b>													
<b>Batch\Seq: 8C04001 Extracted: 03/04/08</b>													
<b>Blank Analyzed: 03/05/2008-03/11/2008 (8C04001-BLK1)</b>													
Fluoranthene			mg/kg	N/A	0.330	ND							
Fluorene			mg/kg	N/A	0.330	ND							
Hexachlorobenzene			mg/kg	N/A	0.330	ND							
Hexachlorobutadiene			mg/kg	N/A	0.330	ND							
Hexachlorocyclopentadiene			mg/kg	N/A	0.330	ND							
Hexachloroethane			mg/kg	N/A	0.330	ND							
Indeno (1,2,3-cd) pyrene			mg/kg	N/A	0.330	ND							
Isophorone			mg/kg	N/A	0.330	ND							
Methyl Methanesulfonate			mg/kg	N/A	0.660	ND							
Naphthalene			mg/kg	N/A	0.330	ND							
Nitrobenzene			mg/kg	N/A	0.330	ND							
N-Nitrosodimethylamine			mg/kg	N/A	0.330	ND							
N-Nitrosodi-n-butylamine			mg/kg	N/A	0.330	ND							
N-Nitrosodi-n-propylamine			mg/kg	N/A	0.330	ND							
N-Nitrosodiphenylamine			mg/kg	N/A	0.330	ND							
N-Nitrosopiperidine			mg/kg	N/A	0.330	ND							
Pentachloronitrobenzene			mg/kg	N/A	0.330	ND							
Pentachlorophenol			mg/kg	N/A	1.70	ND							
Phenacetin			mg/kg	N/A	0.330	ND							
Phenanthrene			mg/kg	N/A	0.330	ND							
Phenol			mg/kg	N/A	0.330	ND							
Pronamide			mg/kg	N/A	0.330	ND							
Pyrene			mg/kg	N/A	0.330	ND							
Pyridine			mg/kg	N/A	0.330	ND							
Surrogate: 2,4,6-Tribromophenol			mg/kg					76		52.6-114			
Surrogate: 2-Fluorobiphenyl			mg/kg					60		45.9-108			
Surrogate: 2-Fluorophenol			mg/kg					50		39.4-103			
Surrogate: Nitrobenzene-d5			mg/kg					56		37.2-107			
Surrogate: Phenol-d6			mg/kg					53		49.6-105			
Surrogate: Terphenyl-d14			mg/kg					96		45.7-133			
<b>TCLP Metals</b>													
<b>Batch\Seq: 8B27002 Extracted: 02/27/08</b>													
<b>Blank Analyzed: 02/27/2008 (8B27002-BLK1)</b>													
Lead			mg/L	N/A	0.200	ND							
<b>Total Metals by SW 846 Series Methods</b>													
<b>Batch\Seq: 8B26005 Extracted: 02/26/08</b>													
<b>Blank Analyzed: 02/27/2008 (8B26005-BLK1)</b>													
Lead			ug/L	N/A	5.00	ND							
<b>Batch\Seq: 8B29003 Extracted: 02/29/08</b>													
<b>Blank Analyzed: 03/04/2008 (8B29003-BLK1)</b>													
Arsenic			mg/kg	N/A	5.00	ND							
Lead			mg/kg	N/A	10.0	ND							

Environmental Resource Management  
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Work Order: HRB0129  
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Received: 02/21/08  
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## LABORATORY DUPLICATE QC DATA

Analyte	Source Result	Spike Level	Units	MDL	MRL	Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
<b>Extractable Petroleum Hydrocarbons by 8015M</b>												
<b>Batch\Seq: 8C03001 Extracted: 03/03/08</b>												
Duplicate Analyzed: 03/06/2008 (8C03001-DUP1)												
QC Source Sample: HRB0108-01												
DRO	575		mg/kg	N/A	18.4	628				9	30	
RRO	577		mg/kg	N/A	184	631				9	30	
Surrogate: o-Terphenyl			mg/kg				104		34.7-135			
<b>Semivolatile Organics by GC/MS</b>												
<b>Batch\Seq: 8C04001 Extracted: 03/04/08</b>												
Duplicate Analyzed: 03/05/2008-03/11/2008 (8C04001-DUP1)												
QC Source Sample: HRB0108-02RE1												
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	N/A	0.292	ND					30	
1,2,4-Trichlorobenzene	ND		mg/kg	N/A	0.292	ND					30	
1,2-Dichlorobenzene	ND		mg/kg	N/A	0.292	ND					30	
1,3-Dichlorobenzene	ND		mg/kg	N/A	0.292	ND					30	
1,4-Dichlorobenzene	ND		mg/kg	N/A	0.292	ND					30	
1-Chloronaphthalene	ND		mg/kg	N/A	0.292	ND					30	
1-Methylnaphthalene	ND		mg/kg	N/A	0.292	ND					30	
1-Naphthylamine	ND		mg/kg	N/A	0.584	ND					30	
2,3,4,6-Tetrachlorophenol	ND		mg/kg	N/A	0.292	ND					30	
2,4,5-Trichlorophenol	ND		mg/kg	N/A	0.292	ND					30	
2,4,6-Trichlorophenol	ND		mg/kg	N/A	0.292	ND					30	
2,4-Dichlorophenol	ND		mg/kg	N/A	0.292	ND					30	
2,4-Dimethylphenol	ND		mg/kg	N/A	0.292	ND					30	
2,4-Dinitrophenol	ND		mg/kg	N/A	1.50	ND					30	
2,4-Dinitrotoluene	ND		mg/kg	N/A	0.584	ND					30	
2,6-Dichlorophenol	ND		mg/kg	N/A	0.292	ND					30	
2,6-Dinitrotoluene	ND		mg/kg	N/A	0.292	ND					30	
2-Chloronaphthalene	ND		mg/kg	N/A	0.292	ND					30	
2-Chlorophenol	ND		mg/kg	N/A	0.292	ND					30	
2-Methylnaphthalene	ND		mg/kg	N/A	0.292	ND					30	
2-Methylphenol (o-Cresol)	ND		mg/kg	N/A	0.292	ND					30	
2-Naphthylamine	ND		mg/kg	N/A	0.584	ND					30	
2-Nitroaniline	ND		mg/kg	N/A	1.50	ND					30	
2-Nitrophenol	ND		mg/kg	N/A	0.292	ND					30	
2-Picoline	ND		mg/kg	N/A	0.292	ND					30	
3,3'-Dichlorobenzidine	ND		mg/kg	N/A	0.292	ND					30	
3,4-Methylphenol (m,p-Cresol)	ND		mg/kg	N/A	0.292	ND					30	
3-Methylcholanthrene	ND		mg/kg	N/A	0.292	ND					30	
3-Nitroaniline	ND		mg/kg	N/A	1.50	ND					30	
4,6-Dinitro-2-methylphenol	ND		mg/kg	N/A	1.50	ND					30	
4-Aminobiphenyl	ND		mg/kg	N/A	0.584	ND					30	
4-Bromophenyl phenyl ether	ND		mg/kg	N/A	0.292	ND					30	
4-Chloro-3-methylphenol	ND		mg/kg	N/A	0.292	ND					30	
4-Chloroaniline	ND		mg/kg	N/A	0.292	ND					30	
4-Chlorophenyl phenyl ether	ND		mg/kg	N/A	0.292	ND					30	
4-Nitroaniline	ND		mg/kg	N/A	0.292	ND					30	
4-Nitrophenol	ND		mg/kg	N/A	1.50	ND					30	
7,12-Dimethylbenz (a) anthracene	ND		mg/kg	N/A	0.292	ND					30	

Environmental Resource Management  
733 Bishop Street, Suite 1872  
Honolulu, HI 96813  
Achie Reyes

Work Order: HRB0129  
Project: O'okala Gym & BP  
Project Number: 0050398

Received: 02/21/08  
Reported: 03/12/08 14:02

## LABORATORY DUPLICATE QC DATA

Analyte	Source Result	Spike Level	Units	MDL	MRL	Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
<b>Semivolatile Organics by GC/MS</b>												
<b>Batch\Seq: 8C04001 Extracted: 03/04/08</b>												
<b>Duplicate Analyzed: 03/05/2008-03/11/2008 (8C04001-DUP1)</b>						<b>QC Source Sample: HRB0108-02RE1</b>						
a,a-Dimethylphenethylamine	0.203		mg/kg	N/A	1.50	0.182				11	30	
Acenaphthene	ND		mg/kg	N/A	0.292	ND					30	
Acenaphthylene	ND		mg/kg	N/A	0.292	ND					30	
Acetophenone	ND		mg/kg	N/A	0.292	ND					30	
Aniline	ND		mg/kg	N/A	0.292	ND					30	
Anthracene	ND		mg/kg	N/A	0.292	ND					30	
Azobenzene	ND		mg/kg	N/A	0.292	ND					30	
Benzidine	ND		mg/kg	N/A	1.50	ND					30	
Benzo (a) anthracene	ND		mg/kg	N/A	0.292	ND					30	
Benzo (a) pyrene	ND		mg/kg	N/A	0.292	ND					30	
Benzo (b) fluoranthene	ND		mg/kg	N/A	0.292	0.0386					30	
Benzo (g,h,i) perylene	ND		mg/kg	N/A	0.292	ND					30	
Benzo (k) fluoranthene	ND		mg/kg	N/A	0.292	ND					30	
Benzoic acid	ND		mg/kg	N/A	1.50	ND					30	
Benzyl alcohol	ND		mg/kg	N/A	0.292	ND					30	
Bis(2-chloroethoxy)methane	ND		mg/kg	N/A	0.292	ND					30	
Bis(2-chloroethyl)ether	ND		mg/kg	N/A	0.292	ND					30	
Bis(2-chloroisopropyl) ether	ND		mg/kg	N/A	0.292	ND					30	
Bis(2-ethylhexyl)phthalate	ND		mg/kg	N/A	0.292	ND					30	
Butyl benzyl phthalate	ND		mg/kg	N/A	0.292	ND					30	
Chrysene	ND		mg/kg	N/A	0.292	ND					30	
Dibenz (a,j) acridine	ND		mg/kg	N/A	0.292	ND					30	
Dibenzo (a,h) anthracene	ND		mg/kg	N/A	0.292	ND					30	
Dibenzofuran	ND		mg/kg	N/A	0.292	ND					30	
Diethyl phthalate	ND		mg/kg	N/A	0.292	ND					30	
Dimethyl phthalate	ND		mg/kg	N/A	0.292	ND					30	
Dimethylaminoazobenzene	ND		mg/kg	N/A	0.584	ND					30	
Di-n-butyl phthalate	ND		mg/kg	N/A	0.292	ND					30	
Di-n-octyl phthalate	ND		mg/kg	N/A	0.292	ND					30	
Ethyl Methanesulfonate	ND		mg/kg	N/A	0.292	ND					30	
Fluoranthene	ND		mg/kg	N/A	0.292	ND					30	
Fluorene	ND		mg/kg	N/A	0.292	ND					30	
Hexachlorobenzene	ND		mg/kg	N/A	0.292	ND					30	
Hexachlorobutadiene	ND		mg/kg	N/A	0.292	ND					30	
Hexachlorocyclopentadiene	ND		mg/kg	N/A	0.292	ND					30	
Hexachloroethane	ND		mg/kg	N/A	0.292	ND					30	
Indeno (1,2,3-cd) pyrene	ND		mg/kg	N/A	0.292	ND					30	
Isophorone	ND		mg/kg	N/A	0.292	ND					30	
Methyl Methanesulfonate	ND		mg/kg	N/A	0.584	ND					30	
Naphthalene	ND		mg/kg	N/A	0.292	ND					30	
Nitrobenzene	ND		mg/kg	N/A	0.292	ND					30	
N-Nitrosodimethylamine	ND		mg/kg	N/A	0.292	ND					30	
N-Nitrosodi-n-butylamine	ND		mg/kg	N/A	0.292	ND					30	
N-Nitrosodi-n-propylamine	0.203		mg/kg	N/A	0.292	0.178				13	30	
N-Nitrosodiphenylamine	ND		mg/kg	N/A	0.292	ND					30	

Environmental Resource Management 733 Bishop Street, Suite 1872 Honolulu, HI 96813 Achie Reyes	Work Order: HRB0129  Project: O'okala Gym & BP Project Number: 0050398	Received: 02/21/08 Reported: 03/12/08 14:02
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### LABORATORY DUPLICATE QC DATA

Analyte	Source Result	Spike Level	Units	MDL	MRL	Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
<b>Semivolatile Organics by GC/MS</b>												
<b>Batch\Seq: 8C04001 Extracted: 03/04/08</b>												
<b>Duplicate Analyzed: 03/05/2008-03/11/2008 (8C04001-DUP1)</b>						<b>QC Source Sample: HRB0108-02RE1</b>						
N-Nitrosopiperidine	ND		mg/kg	N/A	0.292	ND					30	
Pentachloronitrobenzene	ND		mg/kg	N/A	0.292	ND					30	
Pentachlorophenol	ND		mg/kg	N/A	1.50	ND					30	
Phenacetin	ND		mg/kg	N/A	0.292	ND					30	
Phenanthrene	ND		mg/kg	N/A	0.292	ND					30	
Phenol	ND		mg/kg	N/A	0.292	ND					30	
Pronamide	ND		mg/kg	N/A	0.292	ND					30	
Pyrene	ND		mg/kg	N/A	0.292	ND					30	
Pyridine	ND		mg/kg	N/A	0.292	ND					30	
Surrogate: 2,4,6-Tribromophenol			mg/kg				77		52.6-114			
Surrogate: 2-Fluorobiphenyl			mg/kg				85		45.9-108			
Surrogate: 2-Fluorophenol			mg/kg				55		39.4-103			
Surrogate: Nitrobenzene-d5			mg/kg				66		37.2-107			
Surrogate: Phenol-d6			mg/kg				70		49.6-105			
Surrogate: Terphenyl-d14			mg/kg				94		45.7-133			

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THE LEADER IN ENVIRONMENTAL TESTING

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Environmental Resource Management  
733 Bishop Street, Suite 1872  
Honolulu, HI 96813  
Achie Reyes

Work Order: HRB0129  
Project: O'okala Gym & BP  
Project Number: 0050398

Received: 02/21/08  
Reported: 03/12/08 14:02

## LCS/LCS DUPLICATE QC DATA

Analyte	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
<b>Extractable Petroleum Hydrocarbons by 8015M</b>													
<b>Batch/Seq: 8C03001 Extracted: 03/03/08</b>													
<b>LCS Analyzed: 03/05/2008 (8C03001-BS1)</b>													
DRO		167	mg/kg	N/A	2.00	120		72		50-107			
Surrogate: o-Terphenyl			mg/kg					88		34.7-135			
<b>Gasoline Range Organics/BTEX/MTBE by EPA 8015M/8260B</b>													
<b>Batch/Seq: 8C03005 Extracted: 03/01/08</b>													
<b>LCS Analyzed: 03/01/2008 (8C03005-BS2)</b>													
GRO		4.40	mg/kg	N/A	0.500	4.60	4.68	105	106	70-130	2	30	
Surrogate: Toluene-d8			mg/kg					102	101	88.2-117			
<b>Organochlorine Pesticides/PCBs</b>													
<b>Batch/Seq: 8B25015 Extracted: 02/25/08</b>													
<b>LCS Analyzed: 02/27/2008 (8B25015-BS1)</b>													
4,4'-DDD		2.00	ug/L	N/A	0.100	2.18	2.95	109	148	50-139	30	30	L
4,4'-DDE		2.00	ug/L	N/A	0.100	2.08	1.94	104	97	48-137	7	30	
4,4'-DDT		2.00	ug/L	N/A	0.100	2.32	2.13	116	107	47-138	8	30	
Aldrin		2.00	ug/L	N/A	0.100	2.03	1.93	102	97	42-120	5	30	
alpha-BHC		2.00	ug/L	N/A	0.0500	1.98	1.81	99	90	60-120	9	30	
beta-BHC		2.00	ug/L	N/A	0.0500	1.96	1.75	98	87	66-126	12	30	
Chlordane			ug/L	N/A	1.00	ND	ND			50-150		30	
delta-BHC		2.00	ug/L	N/A	0.100	1.66	2.21	83	111	46-136	28	30	
Dieldrin		2.00	ug/L	N/A	0.100	1.92	1.88	96	94	40-140	2	30	
Endosulfan I		2.00	ug/L	N/A	0.0500	1.95	2.09	97	105	49-130	7	30	
Endosulfan II		2.00	ug/L	N/A	0.100	1.98	1.80	99	90	54-130	10	30	
Endosulfan sulfate		2.00	ug/L	N/A	0.100	1.64	1.49	82	74	54-137	9	30	
Endrin		2.00	ug/L	N/A	0.100	2.58	2.35	129	118	56-134	9	30	
Endrin aldehyde		2.00	ug/L	N/A	0.200	2.28	2.14	114	107	56-137	7	30	
Endrin ketone		2.00	ug/L	N/A	0.100	2.13	1.96	107	98	50-130	9	30	
gamma-BHC (Lindane)		2.00	ug/L	N/A	0.0500	2.15	2.11	107	106	30-146	2	30	
Heptachlor		2.00	ug/L	N/A	0.100	1.90	1.98	95	99	51-128	4	30	
Heptachlor epoxide		2.00	ug/L	N/A	0.0500	2.13	1.94	107	97	62-131	9	30	
Methoxychlor		2.00	ug/L	N/A	0.500	2.37	2.37	118	118	56-150	0	30	
alpha-Chlordane		2.00	ug/L	N/A	0.150	1.90	1.78	95	89	63-123	6	30	
gamma-Chlordane		2.00	ug/L	N/A	0.400	1.99	1.81	100	91	67-120	9	30	
Surrogate: Decachlorobiphenyl			ug/L					57	69	32-135			
Surrogate: Tetrachloro-meta-xylene			ug/L					80	80	33-138			
<b>Batch/Seq: 8B26011 Extracted: 02/26/08</b>													
<b>LCS Analyzed: 02/27/2008 (8B26011-BS1)</b>													
4,4'-DDD		0.00200	mg/kg	N/A	0.000120	0.00196	0.00265	98	132	39.6-130	30	30	L
4,4'-DDE		0.00200	mg/kg	N/A	0.000120	0.00190	0.00183	95	91	45.3-130	4	30	
4,4'-DDT		0.00200	mg/kg	N/A	0.000120	0.00221	0.00201	111	101	52.8-134	10	30	
Aldrin		0.00200	mg/kg	N/A	0.000120	0.00171	0.00161	85	81	53-123	6	30	
alpha-BHC		0.00200	mg/kg	N/A	0.000120	0.00186	0.00165	93	82	44.2-130	12	30	
beta-BHC		0.00200	mg/kg	N/A	0.000120	0.00182	0.00160	91	80	51.4-127	12	30	
delta-BHC		0.00200	mg/kg	N/A	0.000120	0.00124	0.00116	62	58	51.4-131	6	30	
Dieldrin		0.00200	mg/kg	N/A	0.000120	0.00234	0.00230	117	115	67.6-117	2	30	

Environmental Resource Management 733 Bishop Street, Suite 1872 Honolulu, HI 96813 Achie Reyes	Work Order: HRB0129 Project: O'okala Gym & BP Project Number: 0050398	Received: 02/21/08 Reported: 03/12/08 14:02
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### LCS/LCS DUPLICATE QC DATA

Analyte	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	Limit	Q
<b>Organochlorine Pesticides/PCBs</b>													
<b>Batch/Seq: 8B26011 Extracted: 02/26/08</b>													
<b>LCS Analyzed: 02/27/2008 (8B26011-BS1)</b>													
Endosulfan I		0.00200	mg/kg	N/A	0.000120	0.00162	0.00169	81	84	44-130	4	30	
Endosulfan II		0.00200	mg/kg	N/A	0.000120	0.00180	0.00167	90	83	65.5-112	8	30	
Endosulfan sulfate		0.00200	mg/kg	N/A	0.000120	0.00151	0.00152	76	76	56.9-117	0	30	
Endrin		0.00200	mg/kg	N/A	0.000120	0.00217	0.00202	109	101	62.1-122	7	30	
Endrin aldehyde		0.00200	mg/kg	N/A	0.000120	0.00193	0.00174	97	87	44.1-121	10	30	
Endrin ketone		0.00200	mg/kg	N/A	0.000120	0.00217	0.00202	108	101	67.3-119	7	30	
gamma-BHC (Lindane)		0.00200	mg/kg	N/A	0.000120	0.00191	0.00184	95	92	53.9-120	3	30	
Heptachlor		0.00200	mg/kg	N/A	0.000120	0.00189	0.00184	94	92	68.7-112	2	30	
Heptachlor epoxide		0.00200	mg/kg	N/A	0.000120	0.00194	0.00179	97	90	63.6-117	8	30	
Methoxychlor		0.00200	mg/kg	N/A	0.000600	0.00314	0.00340	157	170	54.6-137	8	30	L
alpha-Chlordane		0.00200	mg/kg	N/A	0.000120	0.00174	0.00159	87	80	42.4-133	9	30	
gamma-Chlordane		0.00200	mg/kg	N/A	0.000120	0.00174	0.00160	87	80	56.9-120	8	30	
Surrogate: Decachlorobiphenyl			mg/kg					61	61	11-151			
Surrogate: Tetrachloro-meta-xylene			mg/kg					75	72	25-121			
<b>Semivolatile Organics by GC/MS</b>													
<b>Batch/Seq: 8C04001 Extracted: 03/04/08</b>													
<b>LCS Analyzed: 03/05/2008-03/11/2008 (8C04001-BS1)</b>													
1,2,4,5-Tetrachlorobenzene			mg/kg	N/A	0.330	ND				64.4-103			
1,2,4-Trichlorobenzene	1.67		mg/kg	N/A	0.330	1.11		67		47.9-94.6			
1,2-Dichlorobenzene	1.67		mg/kg	N/A	0.330	1.00		60		48.8-91			
1,3-Dichlorobenzene	1.67		mg/kg	N/A	0.330	0.970		58		49.6-90.1			
1,4-Dichlorobenzene	1.67		mg/kg	N/A	0.330	0.980		59		51.7-88			
1-Methylnaphthalene			mg/kg	N/A	0.330	ND				10-130			
1-Naphthylamine			mg/kg	N/A	0.660	ND				26-94.6			
2,3,4,6-Tetrachlorophenol			mg/kg	N/A	0.330	ND				61.1-112			
2,4,5-Trichlorophenol	1.67		mg/kg	N/A	0.330	1.33		80		66.1-108			
2,4,6-Trichlorophenol	1.67		mg/kg	N/A	0.330	1.34		80		59.4-105			
2,4-Dichlorophenol	1.67		mg/kg	N/A	0.330	1.20		72		53.8-98			
2,4-Dimethylphenol	1.67		mg/kg	N/A	0.330	0.997		60		52.6-103			
2,4-Dinitrophenol	1.67		mg/kg	N/A	1.70	1.19		71		36-155			
2,4-Dinitrotoluene	1.67		mg/kg	N/A	0.660	1.39		83		55.5-118			
2,6-Dichlorophenol			mg/kg	N/A	0.330	ND				55.7-98.6			
2,6-Dinitrotoluene	1.67		mg/kg	N/A	0.330	1.40		84		60.9-111			
2-Chloronaphthalene	1.67		mg/kg	N/A	0.330	1.13		68		57.8-98			
2-Chlorophenol	1.67		mg/kg	N/A	0.330	1.03		62		54-92.5			
2-Methylnaphthalene	1.67		mg/kg	N/A	0.330	1.15		69		55.9-95.5			
2-Methylphenol (o-Cresol)	1.67		mg/kg	N/A	0.330	1.09		66		59.3-95.2			
2-Naphthylamine			mg/kg	N/A	0.660	ND				5-97.7			
2-Nitroaniline	1.67		mg/kg	N/A	1.70	1.38		83		62.5-109			
2-Nitrophenol	1.67		mg/kg	N/A	0.330	1.15		69		54.6-94.9			
2-Picoline			mg/kg	N/A	0.330	ND				5-65.6			
3,3'-Dichlorobenzidine			mg/kg	N/A	0.330	ND				51.4-92.7			
3,4-Methylphenol (m,p-Cresol)	1.67		mg/kg	N/A	0.330	1.14		68		38.7-110			
3-Methylcholanthrene			mg/kg	N/A	0.330	ND				59.1-108			

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### LCS/LCS DUPLICATE QC DATA

Analyte	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
<b>Semivolatile Organics by GC/MS</b>													
<b>Batch\Seq: 8C04001 Extracted: 03/04/08</b>													
<b>LCS Analyzed: 03/05/2008-03/11/2008 (8C04001-BS1)</b>													
3-Nitroaniline		1.67	mg/kg	N/A	1.70	1.13		68		58.9-109			
4,6-Dinitro-2-methylphenol		1.67	mg/kg	N/A	1.70	1.41		85		57.6-125			
4-Aminobiphenyl			mg/kg	N/A	0.660	ND				29.5-85.1			
4-Bromophenyl phenyl ether		1.67	mg/kg	N/A	0.330	1.37		82		64.1-104			
4-Chloro-3-methylphenol		1.67	mg/kg	N/A	0.330	1.32		79		58.8-110			
4-Chloroaniline		1.67	mg/kg	N/A	0.330	0.214		13		49.6-89			L2
4-Chlorophenyl phenyl ether		1.67	mg/kg	N/A	0.330	1.34		80		56-109			
4-Nitroaniline		1.67	mg/kg	N/A	0.330	1.27		76		71.2-113			
4-Nitrophenol		1.67	mg/kg	N/A	1.70	1.37		82		39.7-138			
7,12-Dimethylbenz (a) anthracene			mg/kg	N/A	0.330	ND				55.8-152			
a,a-Dimethylphenethylamine			mg/kg	N/A	1.70	0.264				5-12.2			
Acenaphthene		1.67	mg/kg	N/A	0.330	1.29		78		64.6-99.2			
Acenaphthylene		1.67	mg/kg	N/A	0.330	1.16		70		58.6-103			
Acetophenone			mg/kg	N/A	0.330	ND				48.8-96.1			
Aniline			mg/kg	N/A	0.330	ND				29.7-92.8			
Anthracene		1.67	mg/kg	N/A	0.330	1.41		85		68.6-104			
Azobenzene		1.67	mg/kg	N/A	0.330	1.40		84		69.5-104			
Benzidine			mg/kg	N/A	1.70	ND				5-66.5			
Benzo (a) anthracene		1.67	mg/kg	N/A	0.330	1.49		89		64.2-107			
Benzo (a) pyrene		1.67	mg/kg	N/A	0.330	1.17		70		61.4-111			
Benzo (b) fluoranthene		1.67	mg/kg	N/A	0.330	1.40		84		58.3-119			
Benzo (g,h,i) perylene		1.67	mg/kg	N/A	0.330	1.33		80		57.6-102			
Benzo (k) fluoranthene		1.67	mg/kg	N/A	0.330	1.54		93		66.3-114			
Bis(2-chloroethoxy)methane		1.67	mg/kg	N/A	0.330	1.19		71		60.3-107			
Bis(2-chloroethyl)ether		1.67	mg/kg	N/A	0.330	1.07		64		58.3-86.3			
Bis(2-chloroisopropyl) ether		1.67	mg/kg	N/A	0.330	1.10		66		58.7-89.3			
Bis(2-ethylhexyl)phthalate		1.67	mg/kg	N/A	0.330	1.51		91		56.5-126			
Butyl benzyl phthalate		1.67	mg/kg	N/A	0.330	1.55		93		60.2-120			
Chrysene		1.67	mg/kg	N/A	0.330	1.58		95		64.7-110			
Dibenz (a,j) acridine			mg/kg	N/A	0.330	ND				5-24.8			
Dibenzo (a,h) anthracene		1.67	mg/kg	N/A	0.330	2.08		125		61.4-102			L
Dibenzofuran		1.67	mg/kg	N/A	0.330	1.30		78		61-104			
Diethyl phthalate		1.67	mg/kg	N/A	0.330	1.45		87		60.2-113			
Dimethyl phthalate		1.67	mg/kg	N/A	0.330	1.41		85		59.6-110			
Dimethylaminoazobenzene			mg/kg	N/A	0.660	ND				59.8-112			
Di-n-butyl phthalate		1.67	mg/kg	N/A	0.330	1.45		87		63.8-117			
Di-n-octyl phthalate		1.67	mg/kg	N/A	0.330	1.46		88		55.6-120			
Ethyl Methanesulfonate			mg/kg	N/A	0.330	ND				59.5-91.8			
Fluoranthene		1.67	mg/kg	N/A	0.330	1.41		84		64.8-118			
Fluorene		1.67	mg/kg	N/A	0.330	1.34		80		61.4-105			
Hexachlorobenzene		1.67	mg/kg	N/A	0.330	1.48		88		62.9-108			
Hexachlorobutadiene		1.67	mg/kg	N/A	0.330	1.14		69		42.9-97.8			
Hexachlorocyclopentadiene		1.67	mg/kg	N/A	0.330	0.915		55		5-125			
Hexachloroethane		1.67	mg/kg	N/A	0.330	0.987		59		52.2-88.8			
Indeno (1,2,3-cd) pyrene		1.67	mg/kg	N/A	0.330	1.42		85		61.2-102			

Environmental Resource Management 733 Bishop Street, Suite 1872 Honolulu, HI 96813 Achie Reyes	Work Order: HRB0129  Project: O'okala Gym & BP Project Number: 0050398	Received: 02/21/08 Reported: 03/12/08 14:02
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### LCS/LCS DUPLICATE QC DATA

Analyte	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup % REC	% REC Limits	RPD RPD	Limit	Q
<b>Semivolatile Organics by GC/MS</b>													
<b>Batch\Seq: 8C04001 Extracted: 03/04/08</b>													
<b>LCS Analyzed: 03/05/2008-03/11/2008 (8C04001-BS1)</b>													
Isophorone		1.67	mg/kg	N/A	0.330	1.22		73		49.2-90.7			
Methyl Methanesulfonate			mg/kg	N/A	0.660	ND				27.1-140			
Naphthalene		1.67	mg/kg	N/A	0.330	1.15		69		52.4-91.9			
Nitrobenzene		1.67	mg/kg	N/A	0.330	1.11		67		53.2-89			
N-Nitrosodimethylamine		1.67	mg/kg	N/A	0.330	0.965		58		38.3-94.9			
N-Nitrosodi-n-butylamine			mg/kg	N/A	0.330	ND				55.7-104			
N-Nitrosodi-n-propylamine		1.67	mg/kg	N/A	0.330	1.28		77		40.4-119			
N-Nitrosodiphenylamine			mg/kg	N/A	0.330	ND				73.5-112			
N-Nitrosopiperidine			mg/kg	N/A	0.330	ND				53.5-96			
Pentachloronitrobenzene			mg/kg	N/A	0.330	ND				58.7-117			
Pentachlorophenol		1.67	mg/kg	N/A	1.70	1.29		77		63.3-124			
Phenacetin			mg/kg	N/A	0.330	0.0720				60.7-116			
Phenanthrene		1.67	mg/kg	N/A	0.330	1.43		86		75-104			
Phenol		1.67	mg/kg	N/A	0.330	0.994		60		56.5-93.6			
Pronamide			mg/kg	N/A	0.330	ND				67.3-121			
Pyrene		1.67	mg/kg	N/A	0.330	1.55		93		61.2-114			
Pyridine			mg/kg	N/A	0.330	ND				5-106			
Surrogate: 2,4,6-Tribromophenol			mg/kg					95		57.7-121			
Surrogate: 2-Fluorobiphenyl			mg/kg					86		51.2-99.2			
Surrogate: 2-Fluorophenol			mg/kg					67		45.1-92.5			
Surrogate: Nitrobenzene-d5			mg/kg					76		43.5-94.6			
Surrogate: Phenol-d6			mg/kg					76		52.3-97			
Surrogate: Terphenyl-d14			mg/kg					108		58.1-112			
<b>TCLP Metals</b>													
<b>Batch\Seq: 8B27002 Extracted: 02/27/08</b>													
<b>LCS Analyzed: 02/27/2008 (8B27002-BS1)</b>													
Lead		20.0	mg/L	N/A	0.200	21.1		105		80-120			
<b>Total Metals by SW 846 Series Methods</b>													
<b>Batch\Seq: 8B26005 Extracted: 02/26/08</b>													
<b>LCS Analyzed: 02/27/2008 (8B26005-BS1)</b>													
Lead		1000	ug/L	N/A	5.00	988		99		80-120			
<b>Batch\Seq: 8B29003 Extracted: 02/29/08</b>													
<b>LCS Analyzed: 03/04/2008 (8B29003-BS1)</b>													
Arsenic		100	mg/kg	N/A	5.00	99.2		99		80-120			
Lead		100	mg/kg	N/A	10.0	91.5		91		80-120			

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Environmental Resource Management  
733 Bishop Street, Suite 1872  
Honolulu, HI 96813  
Achie Reyes

Work Order: HRB0129  
Project: O'okala Gym & BP  
Project Number: 0050398

Received: 02/21/08  
Reported: 03/12/08 14:02

## MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

Analyte	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup % REC	RPD Limits	RPD Limit	Q
<b>Extractable Petroleum Hydrocarbons by 8015M</b>												
<b>Batch\Seq: 8C03001 Extracted: 03/03/08</b>												
<b>Matrix Spike Analyzed: 03/06/2008 (8C03001-MS1)</b>												
DRO	162	181	mg/kg	N/A	21.7	286		69		50-107		
Surrogate: o-Terphenyl			mg/kg					92		34.7-135		
<b>Organochlorine Pesticides/PCBs</b>												
<b>Batch\Seq: 8B25015 Extracted: 02/25/08</b>												
<b>Matrix Spike Analyzed: 02/27/2008 (8B25015-MS1)</b>												
<b>QC Source Sample: HRB0129-07</b>												
4,4'-DDD	ND	2.86	ug/L	N/A	0.143	3.21		112		50-139		
4,4'-DDE	ND	2.86	ug/L	N/A	0.143	3.04		106		48-137		
4,4'-DDT	ND	2.86	ug/L	N/A	0.143	3.28		115		47-138		
Aldrin	ND	2.86	ug/L	N/A	0.143	2.92		102		40-120		
alpha-BHC	ND	2.86	ug/L	N/A	0.0714	2.65		93		60-120		
beta-BHC	ND	2.86	ug/L	N/A	0.0714	2.67		93		66-126		
Chlordane	ND		ug/L	N/A	1.43	ND				50-150		
delta-BHC	ND	2.86	ug/L	N/A	0.143	1.72		60		46-136		
Dieldrin	ND	2.86	ug/L	N/A	0.143	2.84		100		40-140		
Endosulfan I	ND	2.86	ug/L	N/A	0.0714	2.80		98		49-130		
Endosulfan II	ND	2.86	ug/L	N/A	0.143	2.85		100		54-130		
Endosulfan sulfate	ND	2.86	ug/L	N/A	0.143	2.45		86		54-137		
Endrin	ND	2.86	ug/L	N/A	0.143	3.74		131		56-134		
Endrin aldehyde	ND	2.86	ug/L	N/A	0.286	2.72		95		56-137		
Endrin ketone	ND	2.86	ug/L	N/A	0.143	3.09		108		50-130		
gamma-BHC (Lindane)	ND	2.86	ug/L	N/A	0.0714	3.31		116		30-146		
Heptachlor	ND	2.86	ug/L	N/A	0.143	3.04		106		51-128		
Heptachlor epoxide	ND	2.86	ug/L	N/A	0.0714	3.00		105		62-131		
Methoxychlor	ND	2.86	ug/L	N/A	0.714	3.53		124		56-150		
alpha-Chlordane	ND	2.86	ug/L	N/A	0.214	1.64		57		63-123		MI
gamma-Chlordane	ND	2.86	ug/L	N/A	0.571	2.94		103		67-120		
Surrogate: Decachlorobiphenyl			ug/L					31		32-135		Z
Surrogate: Tetrachloro-meta-xylene			ug/L					78		33-138		
<b>Batch\Seq: 8B26011 Extracted: 02/26/08</b>												
<b>Matrix Spike Analyzed: 02/27/2008 (8B26011-MS1)</b>												
<b>QC Source Sample: HRB0129-01</b>												
4,4'-DDD	ND	0.0952	mg/kg	N/A	0.00571	0.0981		103		50-139		
4,4'-DDE	ND	0.0952	mg/kg	N/A	0.00571	0.104		109		68-126		
4,4'-DDT	ND	0.0952	mg/kg	N/A	0.00571	0.123		129		46-135		
Aldrin	ND	0.0952	mg/kg	N/A	0.00571	0.0908		95		47-120		
alpha-BHC	ND	0.0952	mg/kg	N/A	0.00571	0.0920		97		62-125		
beta-BHC	ND	0.0952	mg/kg	N/A	0.00571	0.0930		98		62-127		
delta-BHC	ND	0.0952	mg/kg	N/A	0.00571	0.0661		69		57-130		
Dieldrin	ND	0.0952	mg/kg	N/A	0.00571	0.124		131		67-125		MI
Endosulfan I	ND	0.0952	mg/kg	N/A	0.00571	0.0789		83		41-147		
Endosulfan II	ND	0.0952	mg/kg	N/A	0.00571	0.0879		92		37-141		
Endosulfan sulfate	ND	0.0952	mg/kg	N/A	0.00571	0.0768		81		62-135		
Endrin	ND	0.0952	mg/kg	N/A	0.00571	0.0850		89		61-133		
Endrin aldehyde	ND	0.0952	mg/kg	N/A	0.00571	0.0939		99		37-147		
Endrin ketone	ND	0.0952	mg/kg	N/A	0.00571	0.111		117		50-130		

Environmental Resource Management 733 Bishop Street, Suite 1872 Honolulu, HI 96813 Achie Reyes	Work Order: HRB0129 Project: O'okala Gym & BP Project Number: 0050398	Received: 02/21/08 Reported: 03/12/08 14:02
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### MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

Analyte	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	Limit	Q
<b>Organochlorine Pesticides/PCBs</b>													
<b>Batch\Seq: 8B26011 Extracted: 02/26/08</b>													
<b>Matrix Spike Analyzed: 02/27/2008 (8B26011-MS1)</b>						<b>QC Source Sample: HRB0129-01</b>							
gamma-BHC (Lindane)	ND	0.0952	mg/kg	N/A	0.00571	0.0985			103			59-123	
Heptachlor	ND	0.0952	mg/kg	N/A	0.00571	0.0921			97			51-140	
Heptachlor epoxide	ND	0.0952	mg/kg	N/A	0.00571	0.0690			72			66-130	
Methoxychlor	0.0217	0.0952	mg/kg	N/A	0.0286	0.130			114			57-143	
alpha-Chlordane	ND	0.0952	mg/kg	N/A	0.00571	0.0696			73			63-121	
gamma-Chlordane	ND	0.0952	mg/kg	N/A	0.00571	0.0923			97			48-124	
Surrogate: Decachlorobiphenyl			mg/kg						58			11-151	
Surrogate: Tetrachloro-meta-xylene			mg/kg						73			25-121	

### Semivolatile Organics by GC/MS

**Batch\Seq: 8C04001 Extracted: 03/04/08**

Analyte	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	Limit	Q
<b>Matrix Spike Analyzed: 03/05/2008-03/11/2008 (8C04001-MS1)</b>						<b>QC Source Sample: HRB0129-04RE1</b>							
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	N/A	0.371	ND						64.4-103	
1,2,4-Trichlorobenzene	ND	1.87	mg/kg	N/A	0.371	0.970			52			47.9-94.6	
1,2-Dichlorobenzene	ND	1.87	mg/kg	N/A	0.371	0.825			44			48.8-91	MI
1,3-Dichlorobenzene	ND	1.87	mg/kg	N/A	0.371	0.786			42			49.6-90.1	MI
1,4-Dichlorobenzene	ND	1.87	mg/kg	N/A	0.371	0.808			43			51.7-88	MI
1-Chloronaphthalene	ND		mg/kg	N/A	0.371	1.38						54.6-103	
1-Methylnaphthalene	ND		mg/kg	N/A	0.371	ND						6.01-43.1	
1-Naphthylamine	ND		mg/kg	N/A	0.742	ND						26-94.6	
2,3,4,6-Tetrachlorophenol	ND		mg/kg	N/A	0.371	ND						61.1-112	
2,4,5-Trichlorophenol	ND	1.87	mg/kg	N/A	0.371	1.52			81			66.1-108	
2,4,6-Trichlorophenol	ND	1.87	mg/kg	N/A	0.371	1.45			77			59.4-105	
2,4-Dichlorophenol	ND	1.87	mg/kg	N/A	0.371	1.25			67			53.8-98	
2,4-Dimethylphenol	ND	1.87	mg/kg	N/A	0.371	1.22			65			52.6-103	
2,4-Dinitrophenol	ND	1.87	mg/kg	N/A	1.91	1.44			77			36-155	
2,4-Dinitrotoluene	ND	1.87	mg/kg	N/A	0.742	1.61			86			55.5-118	
2,6-Dichlorophenol	ND		mg/kg	N/A	0.371	ND						55.7-98.6	
2,6-Dinitrotoluene	ND	1.87	mg/kg	N/A	0.371	1.51			81			60.9-111	
2-Chloronaphthalene	ND	1.87	mg/kg	N/A	0.371	1.13			60			57.8-98	
2-Chlorophenol	ND	1.87	mg/kg	N/A	0.371	0.899			48			54-92.5	MI
2-Methylnaphthalene	ND	1.87	mg/kg	N/A	0.371	1.10			59			55.9-95.5	
2-Methylphenol (o-Cresol)	ND	1.87	mg/kg	N/A	0.371	1.07			57			59.3-95.2	MI
2-Naphthylamine	ND		mg/kg	N/A	0.742	ND						5-97.7	
2-Nitroaniline	ND	1.87	mg/kg	N/A	1.91	1.51			81			62.5-109	
2-Nitrophenol	ND	1.87	mg/kg	N/A	0.371	0.989			53			54.6-94.9	MI
2-Picoline	ND		mg/kg	N/A	0.371	ND						5-65.6	
3,3'-Dichlorobenzidine	ND		mg/kg	N/A	0.371	ND						51.4-92.7	
3,4-Methylphenol (m,p-Cresol)	ND	1.87	mg/kg	N/A	0.371	1.15			62			38.7-110	
3-Methylcholanthrene	ND		mg/kg	N/A	0.371	ND						59.1-108	
3-Nitroaniline	ND	1.87	mg/kg	N/A	1.91	1.35			72			58.9-109	
4,6-Dinitro-2-methylphenol	ND	1.87	mg/kg	N/A	1.91	1.56			83			57.6-125	
4-Aminobiphenyl	ND		mg/kg	N/A	0.742	ND						29.5-85.1	
4-Bromophenyl phenyl ether	ND	1.87	mg/kg	N/A	0.371	1.47			78			64.1-104	
4-Chloro-3-methylphenol	ND	1.87	mg/kg	N/A	0.371	1.52			81			58.8-110	

Environmental Resource Management  
733 Bishop Street, Suite 1872  
Honolulu, HI 96813  
Achie Reyes

Work Order: HRB0129  
Project: O'okala Gym & BP  
Project Number: 0050398

Received: 02/21/08  
Reported: 03/12/08 14:02

### MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

Analyte	Source Spike		Units	MDL	MRL	Dup		% REC	Dup % REC	RPD Limits	RPD Limit	Q
	Result	Level				Result	Result					
<b>Semivolatile Organics by GC/MS</b>												
<b>Batch/Seq: 8C04001 Extracted: 03/04/08</b>												
<b>Matrix Spike Analyzed: 03/05/2008-03/11/2008 (8C04001-MS1)</b>						<b>QC Source Sample: HRB0129-04RE1</b>						
4-Chloroaniline	ND	1.87	mg/kg	N/A	0.371	0.890	48		49.6-89		M1	
4-Chlorophenyl phenyl ether	ND	1.87	mg/kg	N/A	0.371	1.49	79		56-109			
4-Nitroaniline	ND	1.87	mg/kg	N/A	0.371	1.54	82		71.2-113			
4-Nitrophenol	ND	1.87	mg/kg	N/A	1.91	1.62	86		39.7-138			
7,12-Dimethylbenz (a) anthracene	ND		mg/kg	N/A	0.371	ND			55.8-152			
a,a-Dimethylphenethylamine	0.218		mg/kg	N/A	1.91	0.231			5-12.2			
Acenaphthene	ND	1.87	mg/kg	N/A	0.371	1.39	74		64.6-99.2			
Acenaphthylene	ND	1.87	mg/kg	N/A	0.371	1.20	64		58.6-103			
Acetophenone	ND		mg/kg	N/A	0.371	ND			48.8-96.1			
Aniline	ND		mg/kg	N/A	0.371	ND			29.7-92.8			
Anthracene	ND	1.87	mg/kg	N/A	0.371	1.57	84		68.6-104			
Azobenzene	ND	1.87	mg/kg	N/A	0.371	1.49	80		69.5-104			
Benzidine	ND		mg/kg	N/A	1.91	ND			5-66.5			
Benzo (a) anthracene	ND	1.87	mg/kg	N/A	0.371	1.60	86		64.2-107			
Benzo (a) pyrene	ND	1.87	mg/kg	N/A	0.371	1.52	81		61.4-111			
Benzo (b) fluoranthene	ND	1.87	mg/kg	N/A	0.371	1.44	77		58.3-119			
Benzo (g,h,i) perylene	ND	1.87	mg/kg	N/A	0.371	1.38	73		57.6-102			
Benzo (k) fluoranthene	ND	1.87	mg/kg	N/A	0.371	1.55	83		66.3-114			
Bis(2-chloroethoxy)methane	ND	1.87	mg/kg	N/A	0.371	1.05	56		60.3-107		M1	
Bis(2-chloroethyl)ether	ND	1.87	mg/kg	N/A	0.371	0.887	47		58.3-86.3		M1	
Bis(2-chloroisopropyl) ether	ND	1.87	mg/kg	N/A	0.371	0.922	49		58.7-89.3		M1	
Bis(2-ethylhexyl)phthalate	0.0887	1.87	mg/kg	N/A	0.371	1.58	80		56.5-126			
Butyl benzyl phthalate	ND	1.87	mg/kg	N/A	0.371	1.62	86		60.2-120			
Chrysene	ND	1.87	mg/kg	N/A	0.371	1.68	90		64.7-110			
Dibenz (a,j) acridine	ND		mg/kg	N/A	0.371	ND			5-24.8			
Dibenzo (a,h) anthracene	ND	1.87	mg/kg	N/A	0.371	2.16	115		61.4-102		M1	
Dibenzofuran	ND	1.87	mg/kg	N/A	0.371	1.41	75		61-104			
Diethyl phthalate	ND	1.87	mg/kg	N/A	0.371	1.64	87		60.2-113			
Dimethyl phthalate	ND	1.87	mg/kg	N/A	0.371	1.51	81		59.6-110			
Dimethylaminoazobenzene	ND		mg/kg	N/A	0.742	ND			59.8-112			
Di-n-butyl phthalate	ND	1.87	mg/kg	N/A	0.371	1.59	85		63.8-117			
Di-n-octyl phthalate	ND	1.87	mg/kg	N/A	0.371	1.64	87		55.6-120			
Ethyl Methanesulfonate	ND		mg/kg	N/A	0.371	ND			59.5-91.8			
Fluoranthene	ND	1.87	mg/kg	N/A	0.371	1.64	87		64.8-118			
Fluorene	ND	1.87	mg/kg	N/A	0.371	1.51	81		61.4-105			
Hexachlorobenzene	ND	1.87	mg/kg	N/A	0.371	1.58	84		62.9-108			
Hexachlorobutadiene	ND	1.87	mg/kg	N/A	0.371	0.966	52		42.9-97.8			
Hexachlorocyclopentadiene	ND	1.87	mg/kg	N/A	0.371	0.740	40		5-125			
Hexachloroethane	ND	1.87	mg/kg	N/A	0.371	0.809	43		52.2-88.8		M1	
Indeno (1,2,3-cd) pyrene	ND	1.87	mg/kg	N/A	0.371	1.48	79		61.2-102			
Isophorone	ND	1.87	mg/kg	N/A	0.371	1.10	59		49.2-90.7			
Methyl Methanesulfonate	ND		mg/kg	N/A	0.742	ND			27.1-140			
Naphthalene	ND	1.87	mg/kg	N/A	0.371	0.982	52		52.4-91.9		M1	
Nitrobenzene	ND	1.87	mg/kg	N/A	0.371	0.936	50		53.2-89		M1	
N-Nitrosodimethylamine	ND	1.87	mg/kg	N/A	0.371	0.805	43		38.3-94.9			

Environmental Resource Management 733 Bishop Street, Suite 1872 Honolulu, HI 96813 Achie Reyes	Work Order: HRB0129 Project: O'okala Gym & BP Project Number: 0050398	Received: 02/21/08 Reported: 03/12/08 14:02
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### MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

Analyte	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
<b>Semivolatile Organics by GC/MS</b>													
<b>Batch\Seq: 8C04001 Extracted: 03/04/08</b>													
<b>Matrix Spike Analyzed: 03/05/2008-03/11/2008 (8C04001-MS1)</b>						<b>QC Source Sample: HRB0129-04RE1</b>							
N-Nitrosodi-n-butylamine	ND		mg/kg	N/A	0.371	ND				55.7-104			
N-Nitrosodi-n-propylamine	0.229	1.87	mg/kg	N/A	0.371	1.14		48		40.4-119			
N-Nitrosodiphenylamine	ND		mg/kg	N/A	0.371	ND				73.5-112			
N-Nitrosopiperidine	ND		mg/kg	N/A	0.371	ND				53.5-96			
Pentachloronitrobenzene	ND		mg/kg	N/A	0.371	ND				58.7-117			
Pentachlorophenol	ND	1.87	mg/kg	N/A	1.91	1.50		80		63.3-124			
Phenacetin	ND		mg/kg	N/A	0.371	0.0801				60.7-116			
Phenanthrene	ND	1.87	mg/kg	N/A	0.371	1.60		85		75-104			
Phenol	ND	1.87	mg/kg	N/A	0.371	0.929		50		56.5-93.6			M1
Pronamide	ND		mg/kg	N/A	0.371	ND				67.3-121			
Pyrene	ND	1.87	mg/kg	N/A	0.371	1.63		87		61.2-114			
Pyridine	ND		mg/kg	N/A	0.371	ND				5-106			
Surrogate: 2,4,6-Tribromophenol			mg/kg					103		57.7-121			
Surrogate: 2-Fluorobiphenyl			mg/kg					66		51.2-99.2			
Surrogate: 2-Fluorophenol			mg/kg					49		45.1-92.5			
Surrogate: Nitrobenzene-d5			mg/kg					55		43.5-94.6			
Surrogate: Phenol-d6			mg/kg					62		52.3-97			
Surrogate: Terphenyl-d14			mg/kg					82		58.1-112			
<b>TCLP Metals</b>													
<b>Batch\Seq: 8B27002 Extracted: 02/27/08</b>													
<b>Matrix Spike Analyzed: 02/27/2008 (8B27002-MS1)</b>						<b>QC Source Sample: HRB0088-01</b>							
Lead	0.109	20.0	mg/L	N/A	0.200	20.3	20.3	101	101	80-120	0	20	
<b>Total Metals by SW 846 Series Methods</b>													
<b>Batch\Seq: 8B26005 Extracted: 02/26/08</b>													
<b>Matrix Spike Analyzed: 02/27/2008 (8B26005-MS1)</b>						<b>QC Source Sample: HRB0108-03</b>							
Lead	ND	1000	ug/L	N/A	5.00	970	989	97	99	80-120	2	20	
<b>Batch\Seq: 8B29003 Extracted: 02/29/08</b>													
<b>Matrix Spike Analyzed: 03/04/2008 (8B29003-MS1)</b>						<b>QC Source Sample: HRB0158-02</b>							
Arsenic	0.459	64.1	mg/kg	N/A	3.21	54.1	54.6	84	85	80-120	1	20	
Lead	3.45	64.1	mg/kg	N/A	6.41	51.0	52.4	74	77	80-120	3	20	M1

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Environmental Resource Management  
733 Bishop Street, Suite 1872  
Honolulu, HI 96813  
Achie Reyes

Work Order: HRB0129  
Project: O'okala Gym & BP  
Project Number: 0050398

Received: 02/21/08  
Reported: 03/12/08 14:02

## CERTIFICATION SUMMARY

### TestAmerica Honolulu

Method	Matrix	Nelac	Hawaii
SW1311/6010B	Solid/Soil	X	
SW6010B	Solid/Soil	X	
SW6010B	Water - NonPotable	X	
SW8015B/8260B	Solid/Soil	X	
SW8015M	Solid/Soil	X	
SW8081A	Solid/Soil		
SW8081A	Water - NonPotable		
SW8270C	Solid/Soil	X	

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at [www.TestAmericaInc.com](http://www.TestAmericaInc.com)

## DATA QUALIFIERS AND DEFINITIONS

- L** Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
- L2** Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was below acceptance limits.
- M1** The MS and/or MSD were outside the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- Z** Due to sample matrix effects, the surrogate recovery was below the acceptance limits.
- ND** Not detected at the reporting limit (or method detection limit if shown)

## ADDITIONAL COMMENTS

LABORATORY USE ONLY
LAB JOB NO. <i>112B0129-01</i>
LOCATION
CONTAINER

## Chain of Custody / Analysis Request Form

Report to: <b>ACHIE REYES</b>	Project Identification		Indicate analyses requested <i>TPH-GRD (8015) TPH-DRD (8015) TPH-OIL (8015) PESTICIDES (8015) BUDCs (8081) TOTAL <del>As</del> Pb TCLP Pb (1311) <del>As</del> TOTAL ARSENIC</i>
Company name <b>ERM - WEST, INC.</b>	Job name <b>O'OKALA GYM &amp; BP</b>		
Address <b>733 BISHOP ST. #1812</b>	Job number <b>0050398</b>		
City <b>HONOLULU HI 96813</b>	P.O. number <b>0050398</b>		
Phone <b>(808) 521-4404</b>	Fax <b>(808) 521-4408</b>	Contact email address <b>achie.reyes@erm.com</b>	
Sampler <b>ACHIE REYES</b>	# samples in shipment <b>(8-oz jars) 12</b>	Date results needed	

Item no.	Client sample ID	COMP	GRAB	Matrix								Preservation method	Sampling			No. of containers	Laboratory ID no.						
				Water	Soil	Wastewater	Drinking water	Sludge	Liquid	Solid	Oil		Other	Date	Time								
1	DU01	X	X									4°C	2/19	1030	2			X	X	X	X	X	112B0129-01
2	DU02	X	X									"	"	1015	1			X					-02
3	DU03	X	X									"	"	1205	2			X			X		-03
4	DU04	X	X									"	"	1430	3	X	X	X	X	X			-04
5	DU05	X	X									"	"	1045	1			X					-05
6	DU06	X	X									"	"	1130	1			X					-06
7	Eq ROI		X	X								"	"	0930	2			X	X				-07
8																							
9																							
10																							

Released by (print/sign)	Date / time released	Delivery method	Received by (print/sign)	Company / Agency affiliation	Date / time received	Condition noted
<i>ACHIE REYES</i> <i>JAN J...</i>	<i>2/21/1400</i>		<i>J...</i>	<i>TA Home</i>	<i>2/21/02 1400</i>	<i>Box 4-62</i>
						<i>Dry</i>

Comments:

Please check one:  
 Dispose by lab  
 Return to client  
 Archive

*Appendix F*  
*Data Validation Report*



**LABORATORY DATA CONSULTANTS, INC.**

7750 El Camino Real, Suite 2L Carlsbad, CA 92009 Phone: 760/634-0437 Fax: 760/634-0439

ERM  
733 Bishop St. Suite 1872  
Honolulu, HI 96813  
ATTN: Mr. Archie Reyes

August 11, 2008

SUBJECT: O'okala Gym & BP, Data Validation

Dear Mr. Reyes,

Enclosed are the final validation reports for the fractions listed below. This SDG was received on July 29, 2008. Attachment 1 is a summary of the samples that were reviewed for each analysis.

**LDC Project # 19196:**

<u>SDG #</u>	<u>Fraction</u>
HRB0129	Semivolatiles, Chlorinated Pesticides, Lead & Arsenic, Gasoline Range Organics, Diesel Range Organics & Residual Range Organics

The data validation was performed under Tier 1 guidelines. The analyses were validated using the following documents, as applicable to each method:

- USEPA, Contract Laboratory Program National Functional Guidelines for Organic Data Review, October 1999
- USEPA, Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, October 2004
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; Update IV, February 2007

Please feel free to contact us if you have any questions.

Sincerely,

Pei Geng  
Project Manager/Senior Chemist



**O'okala Gym & BP  
Data Validation Reports  
LDC# 19196**

**Semivolatiles**

**LDC**

**Laboratory Data Consultants, Inc.  
Data Validation Report**

**Project/Site Name:** O'Okala Gym and BP  
**Collection Date:** February 19, 2008  
**LDC Report Date:** August 5, 2008  
**Matrix:** Soil  
**Parameters:** Semivolatiles  
**Validation Level:** Tier 1A  
**Laboratory:** TestAmerica, Inc.

**Sample Delivery Group (SDG):** HRB0129

**Sample Identification**

DU04  
DU04MS

## Introduction

This data review covers 2 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8270C for Semivolatiles.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

## **I. Technical Holding Times**

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

## **II. GC/MS Instrument Performance Check**

Instrument performance check data were not reviewed for Tier 1A.

## **III. Initial Calibration**

Initial calibration data were not reviewed for Tier 1A.

## **IV. Continuing Calibration**

Continuing calibration data were not reviewed for Tier 1A.

## **V. Blanks**

Method blanks were reviewed for each matrix as applicable. No semivolatile contaminants were found in the method blanks.

No field blanks were identified in this SDG.

## **VI. Surrogate Spikes**

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

## **VII. Matrix Spike/Matrix Spike Duplicates**

Matrix spike (MS) samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	Flag	A or P
DU04MS (DU04)	1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 2-Chlorophenol 2-Methylphenol 2-Nitrophenol 4-Chloroaniline Bis(2-chloroethoxy)methane Bis(2-chloroethyl) ether Bis(2-chloroisopropyl)ether Hexachloroethane Naphthalene Nitrobenzene Phenol	44 (48.8-91) 42 (49.6-90.1) 43 (51.7-88) 48 (54-92.5) 57 (59.3-95.2) 53 (54.6-94.9) 48 (49.6-89) 56 (60.3-107) 47 (58.3-86.3) 49 (58.7-89.3) 43 (52.2-88.8) 52 (52.4-91.7) 50 (53.2-89) 50 (56.5-93.6)	J (all detects) UJ (all non-detects)	A
DU04MS (DU04)	Dibenz(a,h)anthracene	115 (61.4-104)	J (all detects)	A

The laboratory has indicated that there were no matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike duplicate analyses were not performed for this SDG.

#### VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits with the following exceptions:

LCS ID	Compound	%R (Limits)	Associated Samples	Flag	A or P
8C04001-BS1	4-Chloroaniline	13 (49.6-89)	All samples in SDG HRB0129	J (all detects) UJ (all non-detects)	P
8C04001-BS1	Dibenz(a,h)anthracene	125 (61.4-102)	All samples in SDG HRB0129	J (all detects)	P

#### IX. Regional Quality Assurance and Quality Control

Not applicable.

#### X. Internal Standards

Internal standards data were not reviewed for Tier 1A.

#### XI. Target Compound Identifications

Raw data were not reviewed for this SDG.

## **XII. Compound Quantitation and CRQLs**

Raw data were not reviewed for this SDG.

## **XIII. Tentatively Identified Compounds (TICs)**

Raw data were not reviewed for this SDG.

## **XIV. System Performance**

Raw data were not reviewed for this SDG.

## **XV. Overall Assessment**

Data flags are summarized at the end of this report if data has been qualified.

## **XVI. Field Duplicates**

No field duplicates were identified in this SDG.

**O'Okala Gym and BP  
Semivolatiles - Data Qualification Summary - SDG HRB0129**

SDG	Sample	Compound	Flag	A or P	Reason
HRB0129	DU04	1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 2-Chlorophenol 2-Methylphenol 2-Nitrophenol 4-Chloroaniline Bis(2-chloroethoxy)methane Bis(2-chloroethyl) ether Bis(2-chloroisopropyl)ether Hexachloroethane Naphthalene Nitrobenzene Phenol	J (all detects) UJ (all non-detects)	A	Matrix spike analysis (%R)
HRB0129	DU04	Dibenz(a,h)anthracene	J (all detects)	A	Matrix spike analysis (%R)
HRB0129	DU04	4-Chloroaniline	J (all detects) UJ (all non-detects)	P	Laboratory control samples (%R)
HRB0129	DU04	Dibenz(a,h)anthracene	J (all detects)	P	Laboratory control samples (%R)

**O'Okala Gym and BP  
Semivolatiles - Laboratory Blank Data Qualification Summary - SDG HRB0129**

No Sample Data Qualified in this SDG

**O'Okala Gym and BP  
Semivolatiles - Field Blank Data Qualification Summary - SDG HRB0129**

No Sample Data Qualified in this SDG

LDC #: 19196A2a  
 SDG #: HRB0129  
 Laboratory: TestAmerica, Inc.

**VALIDATION COMPLETENESS WORKSHEET**  
 Tier 1A

Date: 8/01/08  
 Page: 1 of 1  
 Reviewer: SYC  
 2nd Reviewer: [Signature]

**METHOD:** GC/MS Semivolatiles (EPA SW 846 Method 8270C)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 2/19/08
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	SW	MS only
VIII.	Laboratory control samples	SW	LCS
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable  
 N = Not provided/applicable  
 SW = See worksheet  
 ND = No compounds detected  
 R = Rinstate  
 FB = Field blank  
 D = Duplicate  
 TB = Trip blank  
 EB = Equipment blank

Validated Samples: ~~10~~ Soil

1	DU04	11		21		31	
2	8C04001-BK	12		22		32	
3	DU04 MS	13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

## VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS BNA (EPA SW 846 Method 8270C)

A. Phenol**	P. Bis(2-chloroethoxy)methane	EE. 2,6-Dinitrotoluene	TT. Pentachlorophenol**	III. Benzo(a)pyrene**
B. Bis (2-chloroethyl) ether	Q. 2,4-Dichlorophenol**	FF. 3-Nitroaniline	UU. Phenanthrene	JJJ. Indeno(1,2,3-cd)pyrene
C. 2-Chlorophenol	R. 1,2,4-Trichlorobenzene	GG. Acenaphthene**	VV. Anthracene	KKK. Dibenz(a,h)anthracene
D. 1,3-Dichlorobenzene	S. Naphthalene	HH. 2,4-Dinitrophenol*	WW. Carbazole	LLL. Benzo(g,h,i)perylene
E. 1,4-Dichlorobenzene**	T. 4-Chloroaniline	II. 4-Nitrophenol*	XX. Di-n-butylphthalate	MMM. Bis(2-Chloroisopropyl)ether
F. 1,2-Dichlorobenzene	U. Hexachlorobutadiene**	JJ. Dibenzofuran	YY. Fluoranthene**	NNN. Aniline
G. 2-Methylphenol	V. 4-Chloro-3-methylphenol**	KK. 2,4-Dinitrotoluene	ZZ. Pyrene	OOO. N-Nitrosodimethylamine
H. 2,2'-Oxybis(1-chloropropane)	W. 2-Methylnaphthalene	LL. Diethylphthalate	AAA. Butylbenzylphthalate	PPP. Benzoic Acid
I. 4-Methylphenol	X. Hexachlorocyclopentadiene*	MM. 4-Chlorophenyl-phenyl ether	BBB. 3,3'-Dichlorobenzidine	QQQ. Benzyl alcohol
J. N-Nitroso-dl-n-propylamine*	Y. 2,4,6-Trichlorophenol**	NN. Fluorene	CCC. Benzo(a)anthracene	RRR. Pyridine
K. Hexachloroethane	Z. 2,4,5-Trichlorophenol	OO. 4-Nitroaniline	DDD. Chrysene	SSS. Benzidine
L. Nitrobenzene	AA. 2-Chloronaphthalene	PP. 4,6-Dinitro-2-methylphenol	EEE. Bis(2-ethylhexyl)phthalate	TTT.
M. Isophorone	BB. 2-Nitroaniline	QQ. N-Nitrosodiphenylamine (1)**	FFF. Di-n-octylphthalate**	UUU
N. 2-Nitrophenol**	CC. Dimethylphthalate	RR. 4-Bromophenyl-phenylether	GGG. Benzo(b)fluoranthene	VVV.
O. 2,4-Dimethylphenol	DD. Acenaphthylene	SS. Hexachlorobenzene	HHH. Benzo(k)fluoranthene	WWW.

Notes: \* = System performance check compound (SPCC) for RRF; \*\* = Calibration check compound (CCC) for %RSD.



LDC #: 19196 A2a  
 SDG #: See Cover

**VALIDATION FINDINGS WORKSHEET**  
**Matrix Spike/Matrix Spike Duplicates**

Page: 1 of 1  
 Reviewer: JVG  
 2nd Reviewer: [Signature]

**METHOD:** GC/MS BNA (EPA SW 846 Method 8270C)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

- N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.
- N N/A Was a MS/MSD analyzed every 20 samples of each matrix?
- N N/A Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

#	Date	MS/MSD ID	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
		3	F	44 (48.8-91)	( )	( )	J	J/MS/A
			D	42 (49.6-90.1)	( )	( )		
			E	43 (51.7-88)	( )	( )		
			C	48 (54-92.5)	( )	( )		
			G	57 (59.3-95.2)	( )	( )		
			N	53 (57.6-94.9)	( )	( )		
			T	48 (49.6-89)	( )	( )		
			P	56 (60.3-107)	( )	( )		
			B	47 (58.3-86.3)	( )	( )		
			MMM	49 (58.7-89.3)	( )	( )		
			KKK	115 (66.4-104)	( )	( )		J acts/A
			K	43 (52.2-89.8)	( )	( )		J/MS/A
			S	52 (52.4-91.9)	( )	( )		
			L	50 (53.2-89)	( )	( )		
			A	50 (56.5-93.6)	( )	( )		
				( )	( )	( )		
				( )	( )	( )		

	Compound	QC Limits (Soil)	RPD (Soil)	QC Limits (Water)	RPD (Water)		Compound	QC Limits (Soil)	RPD (Soil)	QC Limits (Water)	RPD (Water)
A.	Phenol	26-90%	≤ 35%	12-110%	≤ 42%	GG	Acenaphthene	31-137%	≤ 19%	46-118%	≤ 31%
C.	2-Chlorophenol	25-102%	< 50%	27-123%	< 40%	II.	4-Nitrophenol	11-114%	< 50%	10-80%	< 50%
E.	1,4-Dichlorobenzene	28-104%	< 27%	36-97%	< 28%	KK.	2,4-Dinitrotoluene	28-89%	< 47%	24-96%	< 38%
J.	N-Nitroso-di-n-propylamine	41-126%	< 38%	41-116%	< 38%	TT.	Pentachlorophenol	17-109%	< 47%	9-103%	< 50%
R.	1,2,4-Trichlorobenzene	38-107%	< 23%	39-98%	< 28%	ZZ.	Pyrene	35-142%	< 36%	26-127%	< 31%
V.	4-Chloro-3-methylphenol	26-103%	< 33%	23-97%	< 42%						

**O'okala Gym & BP  
Data Validation Reports  
LDC# 19196**

**Chlorinated Pesticides**

**LDC**

**Laboratory Data Consultants, Inc.  
Data Validation Report**

**Project/Site Name:** O'Okala Gym and BP  
**Collection Date:** February 19, 2008  
**LDC Report Date:** August 5, 2008  
**Matrix:** Soil/Water  
**Parameters:** Chlorinated Pesticides  
**Validation Level:** Tier 1A  
**Laboratory:** TestAmerica, Inc.

**Sample Delivery Group (SDG):** HRB0129

**Sample Identification**

DU01  
DU02  
DU03  
DU04  
DU05  
DU06  
EQR01  
EQR01MS  
DU01MS

## Introduction

This data review covers 7 soil samples and 2 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8081A for Chlorinated Pesticides.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XIV.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

## I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

## II. GC/ECD Instrument Performance Check

Instrument performance check data were not reviewed for Tier 1A.

## III. Initial Calibration

Initial calibration data were not reviewed for Tier 1A.

## IV. Continuing Calibration

Continuing calibration data were not reviewed for Tier 1A.

## V. Blanks

Method blanks were reviewed for each matrix as applicable. No chlorinated pesticide contaminants were found in the method blanks.

Sample EQR01 was identified as an equipment rinsate. No chlorinated pesticide contaminants were found in this blank.

## VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

## VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	Flag	A or P
EQR01MS (EQR01)	alpha-Chlordane	57 (63-123)	J (all detects) UJ (all non-detects)	A
DU01MS (DU01)	Dieldrin	131 (67-125)	J (all detects)	A

The laboratory has indicated that there were no matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike duplicate analyses were not performed for this SDG.

**VIII. Laboratory Control Samples (LCS)**

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

LCS ID (Associated Samples)	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Flag	A or P
8B25015-BS1 (All water samples in SDG HRB0129)	4,4'-DDD	-	148 (50-139)	-	J (all detects)	P
8B26011-BS1 (All soil samples in SDG HRB0129)	4,4'-DDD Methoxychlor	- 157 (54.6-137)	132 (39.6-130) 170 (54.6-137)	- -	J (all detects) J (all detects)	P

**IX. Regional Quality Assurance and Quality Control**

Not applicable.

**X. Pesticide Cleanup Checks**

**a. Florisil Cartridge Check**

Florisil cleanup was not required and therefore not performed in this SDG.

**b. GPC Calibration**

GPC cleanup was not required and therefore not performed in this SDG.

**XI. Target Compound Identification**

Raw data were not reviewed for this SDG.

**XII. Compound Quantitation and Reported CRQLs**

Raw data were not reviewed for this SDG.

**XIII. Overall Assessment of Data**

Data flags are summarized at the end of this report if data has been qualified.

#### **XIV. Field Duplicates**

Samples DU03 and DU05 and samples DU03 and DU06 were identified as field duplicates. No chlorinated pesticides were detected in any of the samples.

**O'Okala Gym and BP  
Chlorinated Pesticides - Data Qualification Summary - SDG HRB0129**

SDG	Sample	Compound	Flag	A or P	Reason
HRB0129	EQR01	alpha-Chlordane	J (all detects) UJ (all non-detects)	A	Matrix spike analysis (%R)
HRB0129	DU01	Dieldrin	J (all detects)	A	Matrix spike analysis (%R)
HRB0129	EQR01	4,4'-DDD	J (all detects)	P	Laboratory control samples (%R)
HRB0129	DU01 DU02 DU03 DU04 DU05 DU06	4,4'-DDD Methoxychlor	J (all detects) J (all detects)	P	Laboratory control samples (%R)

**O'Okala Gym and BP  
Chlorinated Pesticides - Laboratory Blank Data Qualification Summary - SDG HRB0129**

No Sample Data Qualified in this SDG

**O'Okala Gym and BP  
Chlorinated Pesticides - Field Blank Data Qualification Summary - SDG HRB0129**

No Sample Data Qualified in this SDG

LDC #: 19196A3  
 SDG #: HRB0129  
 Laboratory: TestAmerica, Inc.

**VALIDATION COMPLETENESS WORKSHEET**  
 Tier 1A

Date: 8/6/08  
 Page: 1 of 1  
 Reviewer: JLB  
 2nd Reviewer: [Signature]

**METHOD:** GC Chlorinated Pesticides (EPA SW 846 Method 8081A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 2/19/08
II.	GC/ECD Instrument Performance Check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	SW	(MS only)
VIII.	Laboratory control samples	SW	LCS/b
IX.	Regional quality assurance and quality control	N	
Xa.	Florisol cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	ND	D <sub>1</sub> = 3, 5      D <sub>2</sub> = 3, 6
XV.	Field blanks	ND	ER = 7

Note: A = Acceptable      ND = No compounds detected      D = Duplicate  
 N = Not provided/applicable      R = Rinsate      TB = Trip blank  
 SW = See worksheet      FB = Field blank      EB = Equipment blank

Validated Samples: soil + water

1	DU01	S	11	8B 26011-BLK	21	31
2	DU02		12	8B 25015-BLK	22	32
3	DU03	D <sub>2</sub>	13		23	33
4	DU04		14		24	34
5	DU05	D <sub>1</sub>	15		25	35
6	DU06	D <sub>2</sub>	16		26	36
7	EQR01	W	17		27	37
8	EQR01MS		18		28	38
9	EQR01MSD		19		29	39
10	DU01MS	S	20		30	40

## VALIDATION FINDINGS WORKSHEET

METHOD: Pesticide/PCBs (EPASW 846 Method 8081/8082)

A. alpha-BHC	I. Dieldrin	Q. Endrin ketone	Y. Aroclor-1242	GG.
B. beta-BHC	J. 4,4'-DDE	R. Endrin aldehyde	Z. Aroclor-1248	HH.
C. delta-BHC	K. Endrin	S. alpha-Chlordane	AA. Aroclor-1254	II.
D. gamma-BHC	L. Endosulfan II	T. gamma-Chlordane	BB. Aroclor-1260	JJ.
E. Heptachlor	M. 4,4'-DDD	U. Toxaphene	CC. DB 808	KK.
F. Aldrin	N. Endosulfan sulfate	V. Aroclor-1016	DD. DB 1701	LL.
G. Heptachlor epoxide	O. 4,4'-DDT	W. Aroclor-1221	EE.	MM.
H. Endosulfan I	P. Methoxychlor	X. Aroclor-1232	FF.	NN.

Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



LDC #: 19196A3

VALIDATION FINDINGS WORKSHEET

SDG #: Sec level

Laboratory Control Samples

Reviewer: JVC

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

2nd Reviewer: R

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y/N/N/A Were a laboratory control samples (LCS) and laboratory control sample duplicate (LCSD) analyzed for each matrix in this SDG?

Y/N/N/A Were the LCS percent recoveries (%R) and relative percent differences (RPD) within the QC limits?

Level N/D Only

Y/N/N/A Was a LCS analyzed every 20 samples for each matrix or whenever a sample extraction was performed?

Table with 8 columns: #, Date, LCS/LCSD ID, Compound, LCS %R (Limits), LCSD %R (Limits), RPD (Limits), Associated Samples, Qualifications. Contains handwritten data for two sample groups: 8B 25015-BSI and 8B 26011-BSI.

**O'okala Gym & BP  
Data Validation Reports  
LDC# 19196**

**Lead & Arsenic**

*LDC*

**Laboratory Data Consultants, Inc.  
Data Validation Report**

**Project/Site Name:** O'Okala Gym and BP  
**Collection Date:** February 19, 2008  
**LDC Report Date:** August 11, 2008  
**Matrix:** Soil/Water  
**Parameters:** Lead & Arsenic  
**Validation Level:** Tier 1A  
**Laboratory:** TestAmerica, Inc.

**Sample Delivery Group (SDG):** HRB0129

**Sample Identification**

DU01  
DU03  
EQR01

## Introduction

This data review covers 2 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Methods 6010B for Lead and Arsenic.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (October 2004) as there are no current guidelines for the methods stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blanks are summarized in Section III.

Field duplicates are summarized in Section XIII.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

## **I. Technical Holding Times**

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

## **II. Calibration**

Calibration data were not reviewed for Tier 1A.

## **III. Blanks**

Method blanks were reviewed for each matrix as applicable. No lead or arsenic contaminants were found in the preparation blanks.

Sample EQR01 was identified as an equipment rinsate. No lead or arsenic contaminants were found in this blank.

## **IV. ICP Interference Check Sample (ICS) Analysis**

ICP check sample analysis data were not reviewed for Tier 1A.

## **V. Matrix Spike Analysis**

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

## **VI. Duplicate Sample Analysis**

The laboratory has indicated that there were no duplicate (DUP) analyses specified for the samples in this SDG, and therefore duplicate analyses were not performed for this SDG.

## **VII. Laboratory Control Samples (LCS)**

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

## **VIII. Internal Standards (ICP-MS)**

ICP-MS was not utilized in this SDG.

## **IX. Furnace Atomic Absorption QC**

Graphite furnace atomic absorption was not utilized in this SDG.

**X. ICP Serial Dilution**

ICP serial dilution was not performed for this SDG.

**XI. Sample Result Verification**

Raw data were not reviewed for this SDG.

**XII. Overall Assessment of Data**

Data flags have been summarized at the end of this report if data has been qualified.

**XIII. Field Duplicates**

No field duplicates were identified in this SDG.

**O'Okala Gym and BP  
Lead & Arsenic - Data Qualification Summary - SDG HRB0129**

No Sample Data Qualified in this SDG

**O'Okala Gym and BP  
Lead & Arsenic - Laboratory Blank Data Qualification Summary - SDG HRB0129**

No Sample Data Qualified in this SDG

**O'Okala Gym and BP  
Lead & Arsenic - Field Blank Data Qualification Summary - SDG HRB0129**

No Sample Data Qualified in this SDG

**METHOD:** Lead & Arsenic (EPA SW 846 Method 6010B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 2/19/08
II.	Calibration	N	
III.	Blanks	A	
IV.	ICP Interference Check Sample (ICS) Analysis	N	
V.	Matrix Spike Analysis	N	} Client Specified
VI.	Duplicate Sample Analysis	N	
VII.	Laboratory Control Samples (LCS)	A	LCS
VIII.	Internal Standard (ICP-MS)	N	Not Utilized
IX.	Furnace Atomic Absorption QC	N	↓ ↓
X.	ICP Serial Dilution	N	Not Performed
XI.	Sample Result Verification	N	
XII.	Overall Assessment of Data	A	
XIII.	Field Duplicates	N	
XIV.	Field Blanks	ND	ER: 3

Note: A = Acceptable      ND = No compounds detected      D = Duplicate  
 N = Not provided/applicable      R = Rinstate      TB = Trip blank  
 SW = See worksheet      FB = Field blank      EB = Equipment blank

Validated Samples:

*Am soil & water*

1	AL DU01	S	11		21		31
2	A DU03	↓	12		22		32
3	L EQR01	W	13		23		33
4	MB		14		24		34
5			15		25		35
6			16		26		36
7			17		27		37
8			18		28		38
9			19		29		39
10			20		30		40

Notes: #1 As & Pb  
 #2 As  
 #3 Pb

LDC #: 1119646  
 SDG #: 4260129

**VALIDATION FINDINGS WORKSHEET**  
**Sample Specific Element Reference**

Page: 1 of 1  
 Reviewer: CA  
 2nd reviewer: W

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)		
1	So	Al, Sb, (As) Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, (Pb) Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN, _____		
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN, _____		
2	So	Al, Sb, (As) Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN, _____		
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN, _____		
3	W	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, (Pb) Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN, _____		
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN, _____		
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN, _____		
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN, _____		
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN, _____		
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN, _____		
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN, _____		
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN, _____		
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN, _____		
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN, _____		
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN, _____		
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN, _____		
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN, _____		
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN, _____		
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN, _____		
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN, _____		
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN, _____		
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN, _____		
		<b>Analysis Method</b>		
		ICP		Al, Sb, (As) Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, (Pb) Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN, _____
ICP Trace		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN, _____		
ICP-MS		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN, _____		
GFAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN, _____		

Comments: Mercury by CVAA if performed

**Laboratory Data Consultants, Inc.  
Data Validation Report**

**Project/Site Name:** O'Okala Gym and BP

**Collection Date:** February 19, 2008

**LDC Report Date:** August 11, 2008

**Matrix:** Soil

**Parameters:** Lead

**Validation Level:** Tier 1A

**Laboratory:** TestAmerica, Inc.

**Sample Delivery Group (SDG):** HRB0129

**Sample Identification**

DU01

Samples in this SDG underwent TCLP extraction.

## Introduction

This data review covers one soil sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Methods 6010B for Lead.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (October 2004) as there are no current guidelines for the methods stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blanks are summarized in Section III.

Field duplicates are summarized in Section XIII.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

## **I. Technical Holding Times**

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

## **II. Calibration**

Calibration data were not reviewed for Tier 1A.

## **III. Blanks**

Method blanks were reviewed for each matrix as applicable. No lead or arsenic contaminants were found in the preparation blanks.

No field blanks were identified in this SDG.

## **IV. ICP Interference Check Sample (ICS) Analysis**

ICP check sample analysis data were not reviewed for Tier 1A.

## **V. Matrix Spike Analysis**

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

## **VI. Duplicate Sample Analysis**

The laboratory has indicated that there were no duplicate (DUP) analyses specified for the samples in this SDG, and therefore duplicate analyses were not performed for this SDG.

## **VII. Laboratory Control Samples (LCS)**

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

## **VIII. Internal Standards (ICP-MS)**

ICP-MS was not utilized in this SDG.

## **IX. Furnace Atomic Absorption QC**

Graphite furnace atomic absorption was not utilized in this SDG.

**X. ICP Serial Dilution**

ICP serial dilution was not performed for this SDG.

**XI. Sample Result Verification**

Raw data were not reviewed for this SDG.

**XII. Overall Assessment of Data**

Data flags have been summarized at the end of this report if data has been qualified.

**XIII. Field Duplicates**

No field duplicates were identified in this SDG.

**O'Okala Gym and BP  
Lead - Data Qualification Summary - SDG HRB0129**

No Sample Data Qualified in this SDG

**O'Okala Gym and BP  
Lead - Laboratory Blank Data Qualification Summary - SDG HRB0129**

No Sample Data Qualified in this SDG

**O'Okala Gym and BP  
Lead - Field Blank Data Qualification Summary - SDG HRB0129**

No Sample Data Qualified in this SDG

**METHOD:** TCLP Lead & Arsenic (EPA SW 846 Method 6010B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 2/19/08
II.	Calibration	N	
III.	Blanks	A	
IV.	ICP Interference Check Sample (ICS) Analysis	N	
V.	Matrix Spike Analysis	N	} Client Specified
VI.	Duplicate Sample Analysis	N	
VII.	Laboratory Control Samples (LCS)	A	LCS
VIII.	Internal Standard (ICP-MS)	N	Not Utilized
IX.	Furnace Atomic Absorption QC	N	↓ ↓
X.	ICP Serial Dilution	N	Not Performed
XI.	Sample Result Verification	N	
XII.	Overall Assessment of Data	A	
XIII.	Field Duplicates	N	
XIV.	Field Blanks	N	

Note: A = Acceptable      ND = No compounds detected      D = Duplicate  
 N = Not provided/applicable      R = Rinsate      TB = Trip blank  
 SW = See worksheet      FB = Field blank      EB = Equipment blank

Validated Samples:

AM = 0.0

1	DU01	11		21		31	
2	MB	12		22		32	
3		13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**O'okala Gym & BP  
Data Validation Reports  
LDC# 19196**

**Gasoline Range Organics**

**LDC**

**Laboratory Data Consultants, Inc.  
Data Validation Report**

**Project/Site Name:** O'Okala Gym and BP  
**Collection Date:** February 19, 2008  
**LDC Report Date:** August 5, 2008  
**Matrix:** Soil  
**Parameters:** Gasoline Range Organics  
**Validation Level:** Tier 1A  
**Laboratory:** TestAmerica, Inc.

**Sample Delivery Group (SDG):** HRB0129

**Sample Identification**

DU04

## Introduction

This data review covers one soil sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015M for Gasoline Range Organics.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

## **I. Technical Holding Times**

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

## **II. Calibration**

### **a. Initial Calibration**

Initial calibration data were not reviewed for Tier 1A.

### **b. Calibration Verification**

Calibration verification data were not reviewed for Tier 1A.

## **III. Blanks**

Method blanks were reviewed for each matrix as applicable. No gasoline range organic contaminants were found in the method blanks.

No field blanks were identified in this SDG.

## **IV. Accuracy and Precision Data**

### **a. Surrogate Recovery**

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

### **b. Matrix Spike/Matrix Spike Duplicates**

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

### **c. Laboratory Control Samples**

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

## **V. Target Compound Identification**

Raw data were not reviewed for this SDG.

**VI. Compound Quantitation and CRQLs**

Raw data were not reviewed for this SDG.

**VII. System Performance**

Raw data were not reviewed for this SDG.

**VIII. Overall Assessment of Data**

Data flags are summarized at the end of this report if data has been qualified.

**IX. Field Duplicates**

No field duplicates were identified in this SDG.

**O'Okala Gym and BP  
Gasoline Range Organics - Data Qualification Summary - SDG HRB0129**

No Sample Data Qualified in this SDG

**O'Okala Gym and BP  
Gasoline Range Organics - Laboratory Blank Data Qualification Summary - SDG  
HRB0129**

No Sample Data Qualified in this SDG

**O'Okala Gym and BP  
Gasoline Range Organics - Field Blank Data Qualification Summary - SDG  
HRB0129**

No Sample Data Qualified in this SDG

LDC #: 19196A7 **VALIDATION COMPLETENESS WORKSHEET**  
 SDG #: HRB0129 Tier 1A  
 Laboratory: TestAmerica, Inc.

Date: 8/01/08  
 Page: 1 of 1  
 Reviewer: JVC  
 2nd Reviewer: [Signature]

**METHOD:** GC Gasoline Range Organics (EPA SW846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: <u>2/19/08</u>
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	<u>chemt spec</u>
IVc.	Laboratory control samples	A	<u>WCS/D</u>
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable      ND = No compounds detected      D = Duplicate  
 N = Not provided/applicable      R = Rinsate      TB = Trip blank  
 SW = See worksheet      FB = Field blank      EB = Equipment blank

Validated Samples:

soil

1	DU04	11		21		31	
2	8003005-Blk	12		22		32	
3		13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: \_\_\_\_\_  
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 \_\_\_\_\_

**O'okala Gym & BP  
Data Validation Reports  
LDC# 19196**

**Diesel Range Organics & Residual Range Organics**

**LDC**

**Laboratory Data Consultants, Inc.  
Data Validation Report**

**Project/Site Name:** O'Okala Gym and BP  
**Collection Date:** February 19, 2008  
**LDC Report Date:** August 11, 2008  
**Matrix:** Soil  
**Parameters:** Diesel Range Organics & Residual Range Organics  
**Validation Level:** Tier 1A  
**Laboratory:** TestAmerica, Inc.

**Sample Delivery Group (SDG):** HRB0129

**Sample Identification**

DU04

## Introduction

This data review covers one soil sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015M for Diesel Range Organics and Residual Range Organics.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

## **I. Technical Holding Times**

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

## **II. Calibration**

### **a. Initial Calibration**

Initial calibration data were not reviewed for Tier 1A.

### **b. Calibration Verification**

Calibration verification data were not reviewed for Tier 1A.

## **III. Blanks**

Method blanks were reviewed for each matrix as applicable. No diesel range organic contaminants were found in the method blanks.

No field blanks were identified in this SDG.

## **IV. Accuracy and Precision Data**

### **a. Surrogate Recovery**

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

### **b. Matrix Spike/Matrix Spike Duplicates**

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

### **c. Laboratory Control Samples**

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

## **V. Target Compound Identification**

Raw data were not reviewed for this SDG.

## **VI. Compound Quantitation and CRQLs**

Raw data were not reviewed for this SDG.

## **VII. System Performance**

Raw data were not reviewed for this SDG.

## **VIII. Overall Assessment of Data**

Data flags are summarized at the end of this report if data has been qualified.

## **IX. Field Duplicates**

No field duplicates were identified in this SDG.

**O'Okala Gym and BP  
Diesel Range Organics & Residual Range Organics - Data Qualification Summary -  
SDG HRB0129**

No Sample Data Qualified in this SDG

**O'Okala Gym and BP  
Diesel Range Organics & Residual Range Organics - Laboratory Blank Data  
Qualification Summary - SDG HRB0129**

No Sample Data Qualified in this SDG

**O'Okala Gym and BP  
Diesel Range Organics & Residual Range Organics - Field Blank Data  
Qualification Summary - SDG HRB0129**

No Sample Data Qualified in this SDG

LDC #: 19196A8  
 SDG #: HRB0129  
 Laboratory: TestAmerica, Inc.

**VALIDATION COMPLETENESS WORKSHEET**  
 Tier 1A

Date: 8/01/08  
 Page: 1 of 1  
 Reviewer: JVL  
 2nd Reviewer: [Signature]

**METHOD:** GC Diesel Range Organics & Residual Range Organics (EPA SW846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: <u>2/19/08</u>
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	<u>client spec</u>
IVc.	Laboratory control samples	A	<u>LCS</u>
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable  
 N = Not provided/applicable  
 SW = See worksheet  
 ND = No compounds detected D = Duplicate  
 R = Rinsate  
 FB = Field blank  
 TB = Trip blank  
 EB = Equipment blank

Validated Samples:

Soil

1	DU04	11		21		31	
2	<u>8C03001 - Blk1</u>	12		22		32	
3		13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: \_\_\_\_\_  
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 \_\_\_\_\_

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

99-193 Alea Heights Drive, Suite 121 Alea, HI 96701 • 808-486-5227 • Fax 808-486-2456

Environmental Resource Management  
733 Bishop Street, Suite 1872  
Honolulu, HI 96813  
Achie Reyes

Work Order: HRB0129  
Project: O'okala Gym & BP  
Project Number: 0050398

Received: 02/21/08  
Reported: 03/12/08 14:02

## ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
Sample ID: HRB0129-01 (DU01 - Solid/Soil)									
Organochlorine Pesticides/PCBs									
					Sampled: 02/19/08 10:30		Recvd: 02/21/08 14:00		
4,4'-DDD	ND		mg/kg	0.00517	1	02/27/08 12:16	02/26/08	8B26011	SW8081A
4,4'-DDE	ND		"	0.00517	"	"	"	"	"
4,4'-DDT	ND		"	0.00517	"	"	"	"	"
Aldrin	ND		"	0.00517	"	"	"	"	"
alpha-BHC	ND		"	0.00517	"	"	"	"	"
beta-BHC	ND		"	0.00517	"	"	"	"	"
Chlordane	ND		"	0.0427	"	"	"	"	"
delta-BHC	ND		"	0.00517	"	"	"	"	"
Dieldrin	ND		"	0.00517	"	"	"	"	"
Endosulfan I	ND		"	0.00517	"	"	"	"	"
Endosulfan II	ND		"	0.00517	"	"	"	"	"
Endosulfan sulfate	ND		"	0.00517	"	"	"	"	"
Endrin	ND		"	0.00517	"	"	"	"	"
Endrin aldehyde	ND		"	0.00517	"	"	"	"	"
Endrin ketone	ND		"	0.00517	"	"	"	"	"
gamma-BHC (Lindane)	ND		"	0.00517	"	"	"	"	"
Heptachlor	ND		"	0.00517	"	"	"	"	"
Heptachlor epoxide	ND		"	0.00517	"	"	"	"	"
Methoxychlor	ND		"	0.0259	"	"	"	"	"
Toxaphene	ND		"	0.0647	"	"	"	"	"
alpha-Chlordane	ND		"	0.00517	"	"	"	"	"
gamma-Chlordane	ND		"	0.00517	"	"	"	"	"
Surr: Decachlorobiphenyl (39.7-169%)	57 %								
Surr: Tetrachloro-meta-xylene (35.9-169%)	68 %								
TCLP Metals									
Lead	ND		mg/L	0.200	1	02/27/08 16:30	02/27/08	8B27002	SW1311/6010B
Total Metals by SW 846 Series Methods									
Arsenic	6.21		mg/kg	4.76	1	03/04/08 10:43	02/29/08	8B29003	SW6010B
Lead	309		"	9.52	"	"	"	"	"

8/11/08

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Environmental Resource Management  
733 Bishop Street, Suite 1872  
Honolulu, HI 96813  
Achie Reyes

Work Order: HRB0129

Received: 02/21/08  
Reported: 03/12/08 14:02

Project: O'okala Gym & BP  
Project Number: 0050398

## ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
Sample ID: HRB0129-02 (DU02 - Solid/Soil)									
Organochlorine Pesticides/PCBs									
					Sampled: 02/19/08 10:15		Recvd: 02/21/08 14:00		
4,4'-DDD	ND		mg/kg	0.00585	1	02/27/08 12:29	02/26/08	8B26011	SW8081A
4,4'-DDE	ND		"	0.00585	"	"	"	"	"
4,4'-DDT	ND		"	0.00585	"	"	"	"	"
Aldrin	ND		"	0.00585	"	"	"	"	"
alpha-BHC	ND		"	0.00585	"	"	"	"	"
beta-BHC	ND		"	0.00585	"	"	"	"	"
Chlordane	ND		"	0.00585	"	"	"	"	"
delta-BHC	ND		"	0.0483	"	"	"	"	"
Dieldrin	ND		"	0.00585	"	"	"	"	"
Endosulfan I	ND		"	0.00585	"	"	"	"	"
Endosulfan II	ND		"	0.00585	"	"	"	"	"
Endosulfan sulfate	ND		"	0.00585	"	"	"	"	"
Endrin	ND		"	0.00585	"	"	"	"	"
Endrin aldehyde	ND		"	0.00585	"	"	"	"	"
Endrin ketone	ND		"	0.00585	"	"	"	"	"
gamma-BHC (Lindane)	ND		"	0.00585	"	"	"	"	"
Heptachlor	ND		"	0.00585	"	"	"	"	"
Heptachlor epoxide	ND		"	0.00585	"	"	"	"	"
Methoxychlor	ND		"	0.00585	"	"	"	"	"
Toxaphene	ND		"	0.0293	"	"	"	"	"
alpha-Chlordane	ND		"	0.0732	"	"	"	"	"
gamma-Chlordane	ND		"	0.00585	"	"	"	"	"
Surr: Decachlorobiphenyl (39.7-169%)	73 %		"	0.00585	"	"	"	"	"
Surr: Tetrachloro-meta-xylene (35.9-169%)	67 %		"	"	"	"	"	"	"

8/11/08

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THE LEADER IN ENVIRONMENTAL TESTING

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

Environmental Resource Management  
733 Bishop Street, Suite 1872  
Honolulu, HI 96813  
Achie Reyes

Work Order: HRB0129  
Project: O'okala Gym & BP  
Project Number: 0050398

Received: 02/21/08  
Reported: 03/12/08 14:02

## ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
<b>Sample ID: HRB0129-03 (DU03 - Solid/Soil)</b>					<b>Sampled: 02/19/08 12:05</b>		<b>Recvd: 02/21/08 14:00</b>		
<b>Organochlorine Pesticides/PCBs</b>									
4,4'-DDD	ND								
4,4'-DDE	ND		mg/kg	0.00577	1	02/27/08 12:43	02/26/08	8B26011	SW8081A
4,4'-DDT	ND		"	0.00577	"	"	"	"	"
Aldrin	ND		"	0.00577	"	"	"	"	"
alpha-BHC	ND		"	0.00577	"	"	"	"	"
beta-BHC	ND		"	0.00577	"	"	"	"	"
Chlordane	ND		"	0.00577	"	"	"	"	"
delta-BHC	ND		"	0.0476	"	"	"	"	"
Dieldrin	ND		"	0.00577	"	"	"	"	"
Endosulfan I	ND		"	0.00577	"	"	"	"	"
Endosulfan II	ND		"	0.00577	"	"	"	"	"
Endosulfan sulfate	ND		"	0.00577	"	"	"	"	"
Endrin	ND		"	0.00577	"	"	"	"	"
Endrin aldehyde	ND		"	0.00577	"	"	"	"	"
Endrin ketone	ND		"	0.00577	"	"	"	"	"
gamma-BHC (Lindane)	ND		"	0.00577	"	"	"	"	"
Heptachlor	ND		"	0.00577	"	"	"	"	"
Heptachlor epoxide	ND		"	0.00577	"	"	"	"	"
Methoxychlor	ND		"	0.00577	"	"	"	"	"
Toxaphene	ND		"	0.0288	"	"	"	"	"
alpha-Chlordane	ND		"	0.0721	"	"	"	"	"
gamma-Chlordane	ND		"	0.00577	"	"	"	"	"
Surr: Decachlorobiphenyl (39.7-169%)	80 %		"	0.00577	"	"	"	"	"
Surr: Tetrachloro-meta-xylene (35.9-169%)	67 %		"		"	"	"	"	"
<b>Total Metals by SW 846 Series Methods</b>									
Arsenic	ND		mg/kg	3.31	1	03/04/08 13:00	02/29/08	8B29003	SW6010B

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

Environmental Resource Management  
733 Bishop Street, Suite 1872  
Honolulu, HI 96813  
Achie Reyes

Work Order: HRB0129  
Project: O'okala Gym & BP  
Project Number: 0050398

Received: 02/21/08  
Reported: 03/12/08 14:02

## ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
<b>Sample ID: HRB0129-04 (DU04 - Solid/Soil)</b>					<b>Sampled: 02/19/08 14:30</b>		<b>Recvd: 02/21/08 14:00</b>		
<b>Extractable Petroleum Hydrocarbons by 8015M</b>									
DRO	6.66		mg/kg	2.13	1	03/05/08 00:05	03/03/08	8C03001	SW8015M
RRO	149		"	21.3	"	"	"	"	"
Surr: o-Terphenyl (34.7-135%)	80 %								
<b>Gasoline Range Organics/BTEX/MTBE by EPA 8015M/8260B</b>									
GRO	ND		mg/kg	0.494	1	03/01/08 17:37	03/01/08	8C03005	SW8015B/8260B
Surr: Toluene-d8 (88.2-117%)	115 %								
<b>Organochlorine Pesticides/PCBs</b>									
4,4'-DDD	ND		mg/kg	0.00625	1	02/27/08 12:57	02/26/08	8B26011	SW8081A
4,4'-DDE	ND		"	0.00625	"	"	"	"	"
4,4'-DDT	ND		"	0.00625	"	"	"	"	"
Aldrin	ND		"	0.00625	"	"	"	"	"
alpha-BHC	ND		"	0.00625	"	"	"	"	"
beta-BHC	ND		"	0.00625	"	"	"	"	"
Chlordane	ND		"	0.0516	"	"	"	"	"
delta-BHC	ND		"	0.00625	"	"	"	"	"
Dieldrin	ND		"	0.00625	"	"	"	"	"
Endosulfan I	ND		"	0.00625	"	"	"	"	"
Endosulfan II	ND		"	0.00625	"	"	"	"	"
Endosulfan sulfate	ND		"	0.00625	"	"	"	"	"
Endrin	ND		"	0.00625	"	"	"	"	"
Endrin aldehyde	ND		"	0.00625	"	"	"	"	"
Endrin ketone	ND		"	0.00625	"	"	"	"	"
gamma-BHC (Lindane)	ND		"	0.00625	"	"	"	"	"
Heptachlor	ND		"	0.00625	"	"	"	"	"
Heptachlor epoxide	ND		"	0.00625	"	"	"	"	"
Methoxychlor	ND		"	0.0312	"	"	"	"	"
Toxaphene	ND		"	0.0781	"	"	"	"	"
alpha-Chlordane	ND		"	0.00625	"	"	"	"	"
gamma-Chlordane	ND		"	0.00625	"	"	"	"	"
Surr: Decachlorobiphenyl (39.7-169%)	76 %								
Surr: Tetrachloro-meta-xylene (35.9-169%)	66 %								
<b>Sample ID: HRB0129-04RE1 (DU04 - Solid/Soil)</b>					<b>Sampled: 02/19/08 14:30</b>		<b>Recvd: 02/21/08 14:00</b>		
<b>Semivolatile Organics by GC/MS</b>									
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.350	1	03/05/08 17:29	03/04/08	8C04001	SW8270C
1,2,4-Trichlorobenzene	ND		"	0.350	"	"	"	"	"
1,2-Dichlorobenzene	ND	WJ	"	0.350	"	"	"	"	"
1,3-Dichlorobenzene	ND	↓	"	0.350	"	"	"	"	"
1,4-Dichlorobenzene	ND		"	0.350	"	"	"	"	"
1-Chloronaphthalene	ND		"	0.350	"	"	"	"	"
1-Methylnaphthalene	ND		"	0.350	"	"	"	"	"
1-Naphthylamine	ND		"	0.700	"	"	"	"	"
2,3,4,6-Tetrachlorophenol	ND		"	0.350	"	"	"	"	"
2,4,5-Trichlorophenol	ND		"	0.350	"	"	"	"	"
2,4,6-Trichlorophenol	ND		"	0.350	"	"	"	"	"

3/12/08

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Environmental Resource Management  
733 Bishop Street, Suite 1872  
Honolulu, HI 96813  
Achie Reyes

Work Order: HRB0129  
Project: O'okala Gym & BP  
Project Number: 0050398

Received: 02/21/08  
Reported: 03/12/08 14:02

## ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
Sample ID: HRB0129-04RE1 (DU04 - Solid/Soil) - cont.					Sampled: 02/19/08 14:30		Recvd: 02/21/08 14:00		
Semivolatile Organics by GC/MS - cont.									
2,4-Dichlorophenol	ND		"	0.350	"	"	"	"	"
2,4-Dimethylphenol	ND		"	0.350	"	"	"	"	"
2,4-Dinitrophenol	ND		"	1.80	"	"	"	"	"
2,4-Dinitrotoluene	ND		"	0.700	"	"	"	"	"
2,6-Dichlorophenol	ND		"	0.350	"	"	"	"	"
2,6-Dinitrotoluene	ND		"	0.350	"	"	"	"	"
2-Chloronaphthalene	ND		"	0.350	"	"	"	"	"
2-Chlorophenol	ND	UJ	"	0.350	"	"	"	"	"
2-Methylnaphthalene	ND		"	0.350	"	"	"	"	"
2-Methylphenol (o-Cresol)	ND	UJ	"	0.350	"	"	"	"	"
2-Naphthylamine	ND		"	0.700	"	"	"	"	"
2-Nitroaniline	ND		"	1.80	"	"	"	"	"
2-Nitrophenol	ND	UJ	"	0.350	"	"	"	"	"
2-Picoline	ND		"	0.350	"	"	"	"	"
3,3'-Dichlorobenzidine	ND		"	0.350	"	"	"	"	"
3,4-Methylphenol (m,p-Cresol)	ND		"	0.350	"	"	"	"	"
3-Methylcholanthrene	ND		"	0.350	"	"	"	"	"
3-Nitroaniline	ND		"	1.80	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND		"	1.80	"	"	"	"	"
4-Aminobiphenyl	ND		"	0.700	"	"	"	"	"
4-Bromophenyl phenyl ether	ND		"	0.350	"	"	"	"	"
4-Chloro-3-methylphenol	ND		"	0.350	"	"	"	"	"
4-Chloroaniline	ND	UJ	"	0.350	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND		"	0.350	"	"	"	"	"
4-Nitroaniline	ND		"	0.350	"	"	"	"	"
4-Nitrophenol	ND		"	1.80	"	"	"	"	"
7,12-Dimethylbenz (a) anthracene	ND		"	0.350	"	"	"	"	"
a,a-Dimethylphenethylamine	ND		"	1.80	"	"	"	"	"
Acenaphthene	ND		"	0.350	"	"	"	"	"
Acenaphthylene	ND		"	0.350	"	"	"	"	"
Acetophenone	ND		"	0.350	"	"	"	"	"
Aniline	ND		"	0.350	"	"	"	"	"
Anthracene	ND		"	0.350	"	"	"	"	"
Azobenzene	ND		"	0.350	"	"	"	"	"
Benzidine	ND		"	1.80	"	"	"	"	"
Benzo (a) anthracene	ND		"	0.350	"	"	"	"	"
Benzo (a) pyrene	ND		"	0.350	"	"	"	"	"
Benzo (b) fluoranthene	ND		"	0.350	"	"	"	"	"
Benzo (g,h,i) perylene	ND		"	0.350	"	"	"	"	"
Benzo (k) fluoranthene	ND		"	0.350	"	"	"	"	"
Benzoic acid	ND		"	1.80	"	"	"	"	"
Benzyl alcohol	ND		"	0.350	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	UJ	"	0.350	"	"	"	"	"
Bis(2-chloroethyl)ether	ND		"	0.350	"	"	"	"	"
Bis(2-chloroisopropyl) ether	ND		"	0.350	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND		"	0.350	"	"	"	"	"

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Environmental Resource Management 733 Bishop Street, Suite 1872 Honolulu, HI 96813 Achie Reyes	Work Order: HRB0129 Project: O'okala Gym & BP Project Number: 0050398	Received: 02/21/08 Reported: 03/12/08 14:02
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## ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
Sample ID: HRB0129-04RE1 (DU04 - Solid/Soil) - cont.					Sampled: 02/19/08 14:30		Recvd: 02/21/08 14:00		
Semivolatile Organics by GC/MS - cont.									
Butyl benzyl phthalate	ND			0.350	"	"	"	"	"
Chrysene	ND			0.350	"	"	"	"	"
Dibenz (a,j) acridine	ND			0.350	"	"	"	"	"
Dibenzo (a,h) anthracene	ND			0.350	"	"	"	"	"
Dibenzofuran	ND			0.350	"	"	"	"	"
Diethyl phthalate	ND			0.350	"	"	"	"	"
Dimethyl phthalate	ND			0.350	"	"	"	"	"
Dimethylaminoazobenzene	ND			0.700	"	"	"	"	"
Di-n-butyl phthalate	ND			0.350	"	"	"	"	"
Di-n-octyl phthalate	ND			0.350	"	"	"	"	"
Ethyl Methanesulfonate	ND			0.350	"	"	"	"	"
Fluoranthene	ND			0.350	"	"	"	"	"
Fluorene	ND			0.350	"	"	"	"	"
Hexachlorobenzene	ND			0.350	"	"	"	"	"
Hexachlorobutadiene	ND			0.350	"	"	"	"	"
Hexachlorocyclopentadiene	ND			0.350	"	"	"	"	"
Hexachloroethane	ND	KS		0.350	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND			0.350	"	"	"	"	"
Isophorone	ND			0.350	"	"	"	"	"
Methyl Methanesulfonate	ND			0.700	"	"	"	"	"
Naphthalene	ND	KS		0.350	"	"	"	"	"
Nitrobenzene	ND	KS		0.350	"	"	"	"	"
N-Nitrosodimethylamine	ND			0.350	"	"	"	"	"
N-Nitrosodi-n-butylamine	ND			0.350	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND			0.350	"	"	"	"	"
N-Nitrosodiphenylamine	ND			0.350	"	"	"	"	"
N-Nitrosopiperidine	ND			0.350	"	"	"	"	"
Pentachloronitrobenzene	ND			0.350	"	"	"	"	"
Pentachlorophenol	ND			1.80	"	"	"	"	"
Phenacetin	ND			0.350	"	"	"	"	"
Phenanthrene	ND			0.350	"	"	"	"	"
Phenol	ND	KS		0.350	"	"	"	"	"
Pronamide	ND			0.350	"	"	"	"	"
Pyrene	ND			0.350	"	"	"	"	"
Pyridine	ND			0.350	"	"	"	"	"
Surr: 2,4,6-Tribromophenol (52.6-114%)	59%				"	"	"	"	"
Surr: 2-Fluorobiphenyl (45.9-108%)	67%				"	"	"	"	"
Surr: 2-Fluorophenol (39.4-103%)	49%				"	"	"	"	"
Surr: Nitrobenzene-d5 (37.2-107%)	63%				"	"	"	"	"
Surr: Phenol-d6 (49.6-105%)	52%				"	"	"	"	"
Surr: Terphenyl-d14 (45.7-133%)	64%				"	"	"	"	"

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Environmental Resource Management  
733 Bishop Street, Suite 1872  
Honolulu, HI 96813  
Achie Reyes

Work Order: HRB0129  
Project: O'okala Gym & BP  
Project Number: 0050398

Received: 02/21/08  
Reported: 03/12/08 14:02

## ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
<b>Sample ID: HRB0129-05 (DU05 - Solid/Soil)</b>					<b>Sampled: 02/19/08 10:45</b>		<b>Recvd: 02/21/08 14:00</b>		
<b>Organochlorine Pesticides/PCBs</b>									
4,4'-DDD	ND		mg/kg	0.00622	1	02/27/08 13:11	02/26/08	8B26011	SW8081A
4,4'-DDE	ND		"	0.00622	"	"	"	"	"
4,4'-DDT	ND		"	0.00622	"	"	"	"	"
Aldrin	ND		"	0.00622	"	"	"	"	"
alpha-BHC	ND		"	0.00622	"	"	"	"	"
beta-BHC	ND		"	0.00622	"	"	"	"	"
Chlordane	ND		"	0.0513	"	"	"	"	"
delta-BHC	ND		"	0.00622	"	"	"	"	"
Dieldrin	ND		"	0.00622	"	"	"	"	"
Endosulfan I	ND		"	0.00622	"	"	"	"	"
Endosulfan II	ND		"	0.00622	"	"	"	"	"
Endosulfan sulfate	ND		"	0.00622	"	"	"	"	"
Endrin	ND		"	0.00622	"	"	"	"	"
Endrin aldehyde	ND		"	0.00622	"	"	"	"	"
Endrin ketone	ND		"	0.00622	"	"	"	"	"
gamma-BHC (Lindane)	ND		"	0.00622	"	"	"	"	"
Heptachlor	ND		"	0.00622	"	"	"	"	"
Heptachlor epoxide	ND		"	0.00622	"	"	"	"	"
Methoxychlor	ND		"	0.0311	"	"	"	"	"
Toxaphene	ND		"	0.0777	"	"	"	"	"
alpha-Chlordane	ND		"	0.00622	"	"	"	"	"
gamma-Chlordane	ND		"	0.00622	"	"	"	"	"
Surr: Decachlorobiphenyl (39.7-169%)	76 %								
Surr: Tetrachloro-meta-xylene (35.9-169%)	67 %								

1/11/08

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THE LEADER IN ENVIRONMENTAL TESTING

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

Environmental Resource Management 733 Bishop Street, Suite 1872 Honolulu, HI 96813 Achie Reyes	Work Order: HRB0129  Project: O'okala Gym & BP Project Number: 0050398	Received: 02/21/08 Reported: 03/12/08 14:02
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## ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
<b>Sample ID: HRB0129-06 (DU06 - Solid/Soil)</b>					<b>Sampled: 02/19/08 11:30</b>		<b>Recvd: 02/21/08 14:00</b>		
<b>Organochlorine Pesticides/PCBs</b>									
4,4'-DDD	ND		mg/kg	0.00574	1	02/27/08 13:25	02/26/08	8B26011	SW8081A
4,4'-DDE	ND		"	0.00574	"	"	"	"	"
4,4'-DDT	ND		"	0.00574	"	"	"	"	"
Aldrin	ND		"	0.00574	"	"	"	"	"
alpha-BHC	ND		"	0.00574	"	"	"	"	"
beta-BHC	ND		"	0.00574	"	"	"	"	"
Chlordane	ND		"	0.0474	"	"	"	"	"
delta-BHC	ND		"	0.00574	"	"	"	"	"
Dieldrin	ND		"	0.00574	"	"	"	"	"
Endosulfan I	ND		"	0.00574	"	"	"	"	"
Endosulfan II	ND		"	0.00574	"	"	"	"	"
Endosulfan sulfate	ND		"	0.00574	"	"	"	"	"
Endrin	ND		"	0.00574	"	"	"	"	"
Endrin aldehyde	ND		"	0.00574	"	"	"	"	"
Endrin ketone	ND		"	0.00574	"	"	"	"	"
gamma-BHC (Lindane)	ND		"	0.00574	"	"	"	"	"
Heptachlor	ND		"	0.00574	"	"	"	"	"
Heptachlor epoxide	ND		"	0.00574	"	"	"	"	"
Methoxychlor	ND		"	0.0287	"	"	"	"	"
Toxaphene	ND		"	0.0718	"	"	"	"	"
alpha-Chlordane	ND		"	0.00574	"	"	"	"	"
gamma-Chlordane	ND		"	0.00574	"	"	"	"	"
Surr: Decachlorobiphenyl (39.7-169%)	64 %					"	"	"	"
Surr: Tetrachloro-meta-xylene (35.9-169%)	73 %					"	"	"	"

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2/11/08

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THE LEADER IN ENVIRONMENTAL TESTING

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

Environmental Resource Management 733 Bishop Street, Suite 1872 Honolulu, HI 96813 Achie Reyes	Work Order: HRB0129 Project: O'okala Gym & BP Project Number: 0050398	Received: 02/21/08 Reported: 03/12/08 14:02
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## ANALYTICAL REPORT

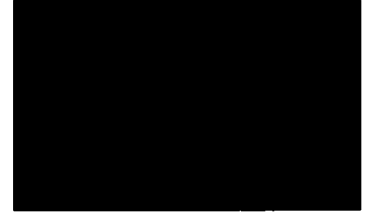
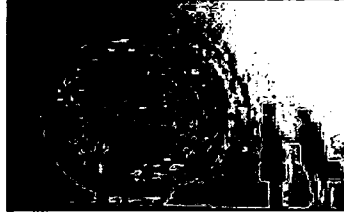
Analyte	Sample Result	Data Qualifiers	Units	Rpt Limit	Dilution	Date Analyzed	Prep Date	Seq/ Batch	Method
<b>Sample ID: HRB0129-07 (EQR01 - Water - NonPotable)</b>				<b>Sampled: 02/19/08 09:30</b>		<b>Recvd: 02/21/08 14:00</b>			
<b>Organochlorine Pesticides/PCBs</b>									
4,4'-DDD	ND		ug/L	0.108	1	02/27/08 09:56	02/25/08	8B25015	SW8081A
4,4'-DDE	ND		"	0.108	"	"	"	"	"
4,4'-DDT	ND		"	0.108	"	"	"	"	"
Aldrin	ND		"	0.108	"	"	"	"	"
alpha-BHC	ND		"	0.0541	"	"	"	"	"
beta-BHC	ND		"	0.0541	"	"	"	"	"
Chlordane	ND		"	1.08	"	"	"	"	"
delta-BHC	ND		"	0.108	"	"	"	"	"
Dieldrin	ND		"	0.108	"	"	"	"	"
Endosulfan I	ND		"	0.0541	"	"	"	"	"
Endosulfan II	ND		"	0.108	"	"	"	"	"
Endosulfan sulfate	ND		"	0.108	"	"	"	"	"
Endrin	ND		"	0.108	"	"	"	"	"
Endrin aldehyde	ND		"	0.216	"	"	"	"	"
Endrin ketone	ND		"	0.108	"	"	"	"	"
gamma-BHC (Lindane)	ND		"	0.0541	"	"	"	"	"
Heptachlor	ND		"	0.108	"	"	"	"	"
Heptachlor epoxide	ND		"	0.0541	"	"	"	"	"
Methoxychlor	ND		"	0.541	"	"	"	"	"
Toxaphene	ND		"	5.41	"	"	"	"	"
alpha-Chlordane	ND	UJ	"	0.162	"	"	"	"	"
gamma-Chlordane	ND		"	0.432	"	"	"	"	"
Surr: Decachlorobiphenyl (39.7-169%)	68 %								
Surr: Tetrachloro-meta-xylene (33-138%)	115 %								
<b>Total Metals by SW 846 Series Methods</b>									
Lead	ND		ug/L	5.00	1	02/27/08 10:40	02/26/08	8B26005	SW6010B

*KS*

*03/11/08*

*Appendix G*  
*Professional Profiles*

## William G. Cutler, RG



Mr. William Cutler is a consultant within ERM based in Honolulu, Hawaii, and has 23 years of experience in the fields of geology, environmental site assessment and remediation. He is well-versed in managing all aspects of remediation projects including strategy development, study, design, technology assessments, senior management communications, agency communications, consulting/contracting services, field implementation, community relations, government affairs and financial control. He has managed complex remediation projects in excess of \$50 million.

Mr. Cutler's areas of expertise include Brownfields redevelopment in support of property divestitures; site assessments and investigations; development of sampling plans; geophysical surveys; remedial technology assessments and the application of risk-based approaches. He has designed and managed site remediation projects under federal Superfund, RCRA Corrective Action, and state programs. Remedies employed range from simple soil removals to complex treatment systems for soil, ground water, free product and waste materials. Mr. Cutler is very experienced at community and regulatory interface, and often functions as the link between the scientific/technical team and other non-technical stakeholders.

### Registration

- Registered Geologist, California (No. 4467)

### Fields of Competence

- Brownfields redevelopment/property divestiture
- Site investigations
- Design and implementation of sampling programs
- Remedial evaluation, design, and implementation
- Cost-effective, risk-based cleanups
- Regulatory agency interface and negotiations
- Public and stakeholder communications
- Project and financial management
- Risk management approaches for impaired sites

### Education

- Ph.D. Candidate, Geology and Geophysics, University of Hawaii at Manoa, current
- M.S., Geology and Geophysics, University of Calgary, Alberta, Canada, 1982
- B.S., Geological Sciences, University of Michigan, 1980

## Key Projects

Project Manager for Environmental Site Assessments of agricultural properties on Oahu, Molokai and Maui, for Monsanto Corporation. Assessments included historical property reviews and soil sampling and analysis to describe current site conditions.

Supervising environmental compliance auditing work of Hawaii National Guard facilities on the island of Oahu. Project includes regulatory compliance assessment, waste management support, educational training and GIS site mapping.

Currently supervising Brownfields Inventory and Assessment Programs for County of Hawaii and City and County of Honolulu. Responsible for project resourcing, budget and cost control, and quality assurance of technical deliverables.

Provided W.H. Shipman, Ltd. with innovative studies and evaluation of remedial alternatives to facilitate a planned property transaction and development of the "Hotel Site" in Kea'au, Hawaii. The site has high levels of arsenic due to former sugar cane pesticide use. However, risk assessment utilizing the "bioavailable" fraction of arsenic led to reduced potential site risks and minimized scale of remedial actions to address arsenic soils. Site is being remediated under the Hawaii Voluntary Response Program with oversight by HDOH HEER office.

Currently serving as Project Manager to the County of Hawaii's Solid Waste Division in assessing the environmental conditions of the former landfill and salvage operations areas at the Hilo Transfer Station located in south Hilo. The scope of work for this project includes an evaluation of past operations and activities at the site, identification of potential environmental impacts and the performance of sampling and analysis to determine the areas of concern through surface soil sampling, active and passive soil vapor analysis.

Managing environmental consulting services to support technology selection and design parameters for potential future leachate treatment at the Hilo Landfill. Tasks include leachate characterization through analysis of collected leachate, determination of performance standards, and a screening of the technology available for leachate treatability studies. ERM will provide the Solid Waste Division with an Alternatives Analysis and final report of information gathered.

Project Manager working collaboratively with the County of Hawaii Solid Waste Division and USEPA Region IX to develop the scope and cost of a SEP to investigate potential landfill fires and associated air emissions at the closed Kailua-Kona Landfill. Deliverables will include a SEP Workplan and Cost Estimate suitable to both the County of Hawaii and USEPA.

Project Manager of hazardous materials assessment and abatement projects at the closed Lihue and Kekaha Sugar Mills on the island of Kauai, on behalf of the current property owner. These closed mills are classic Brownfields sites, with abandoned buildings and soil impacts from historic operations. Future redevelopment potential of the properties is integral to site assessment and future planning.

Supporting responsible party in soil investigations, bioavailability studies, and design concepts for an on-site containment remedy for former herbicide mixing plant at former Ka'u Agribusiness Sugar Mill in Pahala, impacted by historical pesticide releases. Project is on Kamehameha Schools lands with HDOH HEER office regulatory oversight.

Served as Project manager to prepare a Phase I environmental site assessment for a large agricultural parcel on Maui, being considered for acquisition. ERM also conducted an environmental audit and provided a water resource analysis for the subject property.

Conducted Phase I and Phase II environmental site assessments for two large properties on Oahu and Molokai, being considered for acquisition. Via comprehensive document reviews, site visits and interviews. Phase II investigations included soil sampling and analysis for historical pesticide impacts, and a technical and regulatory analysis of water resources. One of the properties was neighboring a federal Superfund site, therefore ERM conducted considerable dialog with State and EPA officials regarding the potential future impacts of CERCLA groundwater issues and how they may affect the subject parcel.

Project Manager for a Phase II site investigation at a former power plant for MMA Renewable Ventures, LLC. Preparation of a workplan, field sampling and analytical plan and health and safety plan were all prepared for the field investigation. Field activities were coordinated with the landowners and the Hawaii Department of Health.

Technical and strategic advisor for the FMC Fresno Site, a complex Brownfields remediation project at a

discontinued pesticide manufacturing facility with impacts to the municipal drinking water aquifer. Complex interplay between several responsible parties demands experienced strategic thinking to solve disputes. Off-site groundwater extraction system has been designed and installed by ERM, and became fully operational in August 2005. Currently optimizing extraction system using numerical groundwater modeling.

Managed the Avtex Fibers Superfund Site for FMC Corporation. Site is undergoing Brownfields redevelopment, with total remediation cost of \$100 million. High-profile site was initial pilot project in USEPA's Redeveloping Superfund Sites Initiative. Former rayon manufacturing plant on bank of Shenandoah River is undergoing building decontamination and hazardous materials abatement, 120 acres of waste impoundment closures, soil stabilization and treatment, fractured bedrock aquifer remediation, and various waste treatment alternatives. Significant public visibility and community activism. Currently leading remedy selection process for viscose basins and ground water, estimated at \$25 to \$30 million in cost.

Technical advisor for innovative in situ chemical oxidation pilot test of FMC Klozur™ persulfate at former FMC East Plant in South Charleston, WV. Significant carbon tetrachloride at West Virginia's first Brownfields cleanup under the WV Voluntary Cleanup Program. Portions of site contaminated with VOCs and metals were cleaned up, sold, and redeveloped by automotive dealerships.

Project Manager for cleanup of the Ralph Crego Park in Lansing, MI, where industrial waste dumping impacted 40 acres of pristine recreational park and wetlands. Utilized mineral speciation and in-vitro bioaccessibility studies to formulate a final cleanup standard for arsenic. Removed in excess of 200,000 cubic yards of impacted soils and waste material, and restored Park for unrestricted public use.

Developed remediation strategies for cleanup of lead arsenate and organochlorine pesticide impacts at a former agricultural chemical formulating plant in Harlingen, Texas. Final remedies accounted for limited arsenic bioaccessibility and natural attenuation of pesticides in groundwater.

Provided program management of San Jose area remediation work during closure of United Defense

military tracked vehicle manufacturing facilities. Projects totaling \$60 million conducted under Orders with California EPA. Sites impacted by chlorinated solvents and heavy metals. Soil and ground water remediation systems designed and installed (dual-phase extraction and bioaugmentation), most sites completed, divested and commercially redeveloped.

Provided support to elemental phosphorus plant environmental staff on slag management and wastewater treatment of calciner and phosphy water. Conducted technical and financial analysis of remediation costs for closing facility. Provided strategic advise on redevelopment planning for property owner, dealing with local community and tribal stakeholders.

RCRA Corrective Action project involved site investigation of waste management units, and soil and ground water impacts by phenol and PAHs. Monitored natural attenuation remedy for phenol plume, ecological risk assessments for PAHs in soil.

Managed \$20 million Mouat Industries Superfund Site remediation of hexavalent chromium at site along banks of Yellowstone River. Ex situ soil stabilization/solidification and on-site/off-site waste disposition. Demonstrated and negotiated natural attenuation remedy for hexavalent chromium ground water plume. Ecological and human health risk assessments guided reasonable remedy outcomes.

Conducted investigation and remediation at operating lithium manufacturing facility. Challenges included identification and removal of more than 1,000 buried drums containing chlorinated solvents (PCE, TCE) beneath tailings landfills. Significant ground water issues related to chlorinated solvents, including DNAPL. Designed and installed innovative "passive" SVE system.

Managed the design, installation and closure of two sites impacted by PCE/TCE and diesel fuel. Utilized multi-level air sparge and SVE technology to achieve clean closure results in less than 3 months of system operations.

Conducted investigation of at 40-acre Dow Chemical Bay City petrochemical feedstock terminal. Used cone penetrometer, downhole and surface geophysics, and mobile lab for investigation. Supported design and installation of ground water interceptor system for LNAPL and impacted groundwater.

Conducted technology pilot test for LNAPL source removal at natural gas compressor station, in conjunction with Dow Chemical Corporate Research and Development scientists. Technologies focused on bioaugmentation via air sparging and nutrient amendments.

Designed and supported field investigations of ground water impacts at the International Terminals, Inc. chemical tank farm along banks of Saginaw River. Installed pump and treat system for containment and remediation of chlorinated solvent ground water contamination. Developed cost-effective hydraulic monitoring program to ensure protection of adjacent surface waters.

Conducted investigations and supported remedial design/remedial action on numerous known or suspected brine spill sites. Significant surface and downhole geophysical work aided identification of brine materials. Used MODFLOW to support design of brine spill recovery systems.

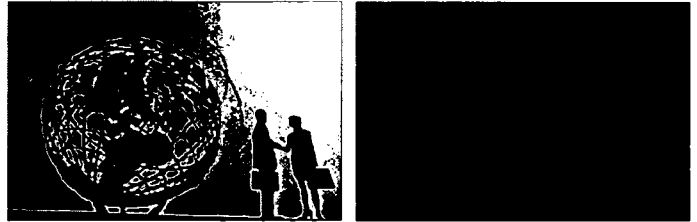
#### **Publications and Presentations**

- Tait, J., Lundblad, S. and Cutler, W. 2008. Optimizing XRF for Field Mapping of Soil Arsenic. EPA Triad National Conference. Amherst, MA. June 2008.
- Cutler, W.G and Hue, N.V. Geochemistry of Bioaccessible Arsenic. Geochemistry of Bioaccessible Arsenic. Sixth International Conference on the Remediation of Chlorinated and Recalcitrant Compounds. Monterey, California. May 2008.
- Cutler, W.G., Hue, N.V., Ortiz-Escobar, M.V. and Martin, T. 2006. Approaches to Reduce Bioaccessible Arsenic in Hawaii Soils. Proceedings of the Fifth International Conference on the Remediation of Chlorinated and Recalcitrant Compounds. Monterey, California. May 2006.
- Cutler, W.G. et al. 2006. Remedial Alternatives for Bioaccessible Arsenic in Hawaii Soils, AEHS West Coast Soils Conference, San Diego, CA, March 2006 (abstract & platform, accepted).
- Block, P. and Cutler, W. 2005. Klozur™ Activated Persulfate for Site Remediation: Comparative Modeling of Treatment Efficacy and Cost. 4<sup>th</sup> Int'l Conference on Oxidation and Reduction Technologies of In-situ Treatment of Soil and Groundwater, Chicago, IL, October 2005 (paper & platform).
- Cutler, W.G. and Estep, J. 2005. Power County Idaho, Building the Future from the Past, Problem Properties Workshop. National Assoc. of Counties Annual Conference, Honolulu, HI, July 2005 (oral presentation and panel member).
- Cutler, W.G. and Hazard, J. 2005. Integrated CERCLA Cleanup and Non-CERCLA Abatement and Demolition. Joint Services Environmental Management Conference, San Antonio, TX, April 2005 (abstract & poster).
- Cutler, W., et al, 2005. Use of CPT/MIPS to Determine Optimal ISCO Injection Zones, 15<sup>th</sup> Annual AEHS Conference on Soils, Sediments and Water. San Diego, CA, March 2005 (abstract & poster).
- Root, D K., Block, P.A., Cutler, W.G., 2005. Investigation of Chlorinated Methanes Treatability Using Sodium Persulfate, First International Conference on Environmental Science & Technology, Jan 24, 2005 (abstract & platform)
- Erbe, M, Keating, R., Travers, C., Norman, L., Cutler, W., and Martin, T. 2004. Assessing the Role of Structural Geologic Elements in Aquifer Hydraulics and Plume Migration. EPA/NGWA Fractured Rock Conference, Portland, ME, September 2004 (paper & platform).
- Bott, C., Koon, J., Brooks, P., Rich, P, Martin, T., Bement, D., and Cutler, W., 2002. Physiochemical and Biological Treatment of a Concentrated Industrial Leachate from Aged Process Waste at a Viscose Rayon Production Facility. Proceedings of WEFTEC annual meeting, October 2002 (abstract & platform).
- Cutler, W., 2002. Integrating Land Use into the Remedy Selection Process/ Setting Up the Redevelopment. Redeveloping Superfund Sites, Working with Responsible Parties, EPA Region 6 Workshop, Houston, TX, June 2002 (oral presentation and panel member).
- Cutler, W., 2002. Working with PRPs. U.S. EPA National Superfund Redevelopment Pilot Conference. Dallas, TX, April 2002 (oral presentation and panel member).
- Venkatakrishnan, R., Cutler, W and Travers, C., 2001. Borehole Geophysics and Development of a Conceptual Hydrogeological Model: Case Study of Plume Migration in Martinsburg Shale at the Avtex

Fibers Superfund Site, Geological Society of America annual meeting, Boston, MA, November 2001 (abstract & platform).

- Brooks, P., Koon, J., Bement D., and Cutler, W., 2001. Innovative Treatment of Landfill Leachate at the Avtex Superfund Site, Environment Virginia Annual Conference, Lexington, VA, April 2001 (abstract & platform).
- Travers, C., Martin, T., Ruby, M., Cutler, W., Keating, R., 2001. Geologic Controls on DAPL Migration in a Fractured Bedrock System: Avtex Fibers Superfund Site, Part I, Fractured Rock 2001, Toronto, ON, March 2001 (abstract & poster).
- Martin, T., Travers, C., Ruby, M., Cutler, W., Keating, R., 2001. Fate and Remediation Alternatives for DAPL in Fractured Bedrock System: Avtex Fibers Superfund Site, Part II, Fractured Rock 2001, Toronto, ON, March, 2001 (abstract & poster).
- Zahir, Z., Bensch, J., Cutler, W., 1999. Enhanced Soil Vapor Extraction for Source Area Remediation Using Dual-Phase Extraction with Pneumatic Fracturing, Contaminated Soils, Volume 4, Amherst Scientific Publishers, Amherst, MA, 1999.

## Marcelino "Achie" Reyes



Marcelino Reyes has 8 years of environmental consulting and 26 years of engineering experience, serving as a Project Manager for both government and private clients. His diverse expertise includes environmental assessment and site investigation (Phase I and II), environmental health and safety compliance, air quality monitoring, environmental impact studies, bioremediation, soil vapor extraction, ground water sampling, and management of soil excavation and disposal. He also served as the Project Engineer for the Brownfields program for the counties of Kauai and Hawaii.

Mr. Reyes has served as an overall Field Coordinator, managing several subcontractors to ensure timely completion of project tasks. He has served as an On-site Health and Safety Office on several Department of Defense contracts including cleanup of petroleum pipelines and remedial excavation of contaminated sites on the island of Oahu. His responsibility is to ensure that all work by subcontractors are done in accordance to the approved health and safety plan. He conducted health and safety meetings and ensure that all forms and necessary permits are up to date and available at the project site prior to the start of the field work.

He provided monthly health and safety oversight for a foreign company from Asia during the dismantling and salvage of the former Lihue Power Plant for 10 months. His responsibility included monthly reporting, with photo documentation, of potential on-site health and safety compliance issues and environmental concerns and recommended corrective action when the need arises.

### Professional Affiliations & Registrations

- AHERA Asbestos Inspector Certified, State of Hawaii.
- Registered Environmental Assessor (State of California Reg. No. 08283)
- Licensed Agricultural Engineer (Philippines)
- Society of American Military Engineers
- Filipino American League of Engineers and Architects

### Fields of Competence

- Brownfields Assessment Programs
- Spill Prevention Control and Countermeasure Plan
- Environmental health and safety compliance
- Environmental impact assessments
- Phase I and II environmental site assessments (ESAs)
- Air quality permitting and compliance
- Air quality impact studies
- Hazardous material management
- Remedial Investigation/Feasibility Studies (RI/FS)
- Engineering evaluation/cost analysis (EE/CA)

### Education

- M.S., Bio-systems Engineering, University of Hawaii at Manoa, 1994
- B.S., Agricultural Engineering, University of the Philippines, 1981
- 40-Hour Hazardous Waste Operations and Emergency Response (HAZWOPER) Training
- 8-Hour HAZWOPER Refresher, current
- 40-Hour AHERA Asbestos Contractor/Supervisor Initial Training
- Data Validation and Quality Assurance Program
- DOQ Implementation Program (Short Course)
- Human Health and Risk Assessment (Short Course)
- 40-Hour AutoCAD Training Program
- Environmental Decision-Making (Short Course)
- Environmental Forensics (Short Course)

## **Languages**

- Tagalog (native)
- English (good)

## **Key Industry Sectors**

- Government
- Agriculture
- Defense
- Food & Drink
- Utilities
- Transportation

## **Key Projects**

### ***Key Environmental Site Assessment Projects***

#### **Phase I ESA, Pearl Highland Shopping Center, Honolulu, HI. Project Manager.**

Managed preparation and performance of Phase I ESA of Pearl Highland Shopping Center. Study involved literature search on transfer of ownership and utilization of project site and adjacent property. Work also included records search of spill and leakage of underground storage tank and audit of hazardous chemicals at project site. Result of study was used as benchmark for procurement of shopping center by AEW Capital Management, LLC.

#### **Phase I and II ESA, Kunia Agricultural Land, Monsanto Company, Inc. Project Engineer.**

Conducted ESA and site investigation study on 2,300-acre former pineapple and sugar cane agricultural land to determine potentially environmental hazards at site. Results of ESA were used for acquisition of property.

#### **Phase II ESA Study, Former Hilo Coast Power Plant, Hilo, HI. Field Manager.**

Conducted environmental assessments and site investigation of former Pepeekeo Sugar Mill and Hilo Coast Power Plant in preparation for possible property acquisition. Supervised field personnel during site investigation and sampling and served as Health and Safety Officer. Result of assessment will be used to determine site redevelopment.

#### **Phase I ESA, Hilo Coast Power Plant, Hawaii. Project Manager.**

Managed preparation of Phase I ESA of coal-operated power plant. Study involved literature search on transfer of ownership, site utilization, and potential impact from

adjacent properties. Work also included record search of spill and leakage of underground storage tank and audit of hazardous chemicals at project site.

#### **Former Canec Plant Site, Hilo, HI. Field Engineer.**

Developed field sampling and analysis plan and conducted incremental sampling to assess levels of arsenic on 10-acre lot, site of former Canec processing plant. Supervised field personnel during site investigation and sampling and served as Health and Safety Officer. Coordinated fieldwork with client and Hawaii Department of Health (HDOH) regulators.

#### **Triangle Lot, Shipman Ltd, Kea'au, HI. Field Engineer.**

Developed and implemented field sampling plan on bioaccessibility study of arsenic-contaminated soil at Triangle Lot in Kea'au, HI. Former sugar cane field is being redeveloped into commercial complex. Served as Health and Safety Officer during field sampling. Coordinated fieldwork with client and HDOH regulators.

#### **Arsenic Bioaccessibility Study, Shipman Ltd, Kea'au, HI5. Field Engineer.**

Responsible for developing field sampling plan and supervision of field personnel during site investigation and sampling of proposed "Hotel Site" in Kea'au, Hawaii. Served as Health and Safety Officer during field sampling. Coordinated fieldwork with client and HDOH regulators.

#### **Kau Herbicide Mixing Plant, Pahala, HI, Kau Agribusiness. Project Engineer.**

Supervised field mobilization and soil sampling activity at former herbicide mixing plant to determine levels of arsenic and dioxin contamination in area of former sugar mill. Coordinated work schedule and field sampling plan and analysis with HDOH HEER. Served as Site Health and Safety Officer during field sampling and investigation.

#### **Hazardous Materials Assessment and Abatement, Former Lihue and Kekaha Sugar Mills, Island of Kauai. Field Engineer.**

Conducted asbestos survey of two former sugar mills and provided cost estimates of abatement. These closed mills are classic Brownfields sites, with abandoned buildings and soil impacted from historical operations. Future redevelopment potential of properties is integral to site assessment and future planning.

#### ***State and County Projects***

**Brownfields Inventory and Assessment Program, County of Kauai, HI. Project Engineer.**

Project Engineer for multi-year contract to provide Brownfields investigations of potentially contaminated and under-utilized commercial and industrial sites for County of Kauai in collaboration with HDOH. Managed and performed site inventories, and Phase I and II ESAs. Work is under USEPA grant.

**Brownfields Site Assessment Study (Phase I and II ESAs), Department of Environmental Management, County of Hawaii, HI. Project Engineer.**

Project Engineer for multi-year contract to conduct site assessments of potentially contaminated and under-utilized commercial and industrial sites (Brownfields sites) for County of Hawaii in collaboration with HDOH HEER under USEPA Region 9 grant.

**County-wide Site Assessment Study (Phase I and II ESAs), Department of Community Services, City and County of Honolulu, HI. Project Engineer**

Project Engineer for multi-year contract to conduct site assessment and investigation of potentially contaminated and under-utilized commercial and industrial sites (Brownfields sites) for City and County of Honolulu in collaboration with HDOH HEER under USEPA Region 9 Brownfields grant.

**Paia Sugar Mill Site Investigation, HDOH HEER, Project Manager.**

Responsible for preparation and implementation of field sampling plan in accordance with USEPA protocol for site investigation of former sugar mills. Managed and coordinated fieldwork with subcontractors and served as Health and Safety Officer during site investigation.

**Environmental Assessment and Remediation, Phase II and III, Honokahau Ice-House, Kona, HI. Site Manager.**

Site Manager for site investigation and remediation of fuel spill. Work involved limited site characterization, soil sampling, and excavation, remediation, and disposal of nonhazardous waste.

**Lihue Plantation Mill Site Investigation, HDOH HEER, Project Manager.**

Responsible for preparation and implementation of field sampling plan according to USEPA protocol for site investigation of former sugar mills on Kauai. Reviewed workplan and provided Health and Safety Plan for project.

**Kekaha Sugar Mill Site Investigation, HDOH HEER, Field Manager.**

Responsible for coordinating field operation with several subcontractors and USEPA-certified laboratories. Prepared and implemented field sampling plan according to USEPA protocol for former sugar mills. Served as Health and Safety officer.

**Environmental Assessment and Site Investigation, Waiahole Beach Park, Phase I and II, City and County of Honolulu. Project Manager.**

Managed Phase I and Phase II site investigation of possible extension to public park for City and County of Honolulu.

**Kapaa Landfill Phase II Site Investigation, HDOH HEER, Project Manager.**

Responsible for preparation and implementation of field sampling plan in accordance with USEPA protocols for site investigation.

***Environmental Health and Safety Compliance***

**Environmental Compliance Support, Hawaii Army National Guard (HIARNG), Oahu.**

ERM is currently working for HIARNG to assist their environmental program managers in preparation for National Guard Bureau audit. Responsible for reviewing and identifying potential compliance violations and executing corrective actions at various HIARNG facilities in State of Hawaii.

**Well Installation and Ground Water Monitoring, Aircraft Service International Group (ASIG), Petroleum Contamination Remediation, Honolulu, HI.**

Managed project and coordinated field activities with several contractors in the installation of several monitoring wells and a recovery well to remediate an jet fuel spill inside a tank farm owned and operated by ASIG.

**Spill Prevention Control and Countermeasure Plan, White Cap Home Depot Wholesale Distributor, Honolulu, HI. 2007**

Prepared a Spill Prevention Control and Countermeasure (SPCC) plan for a material construction distributor handling paint and petroleum products for wholesale distribution.

**Spill Prevention Control and Countermeasure Plan, Hawaii Army National Guard, Honolulu, HI. 2008**

Updated a Spill Prevention Control and Countermeasure (SPCC) plan for the Army National Guard facilities on the island of Oahu. Update site layout and house keeping procedures to improve overall handling of petroleum products.

**Pi'ilani Farm Survey, Monsanto Company, Due Diligence Site Assessment, Maui**

In accordance with ASTM Standard E-1527-00, conducted Phase I environmental site assessment on Maui for large agricultural parcel being considered for acquisition. Also conducted environmental audit, and provided water resource analysis.

**Petroleum, Oil and Lubricant (POL) Pipeline Cleanup, Kipapa and Waikakalau Fuel Storage Annex, Hickam AFB, Hawaii. On-site Health and Safety Officer**

Responsible for safety and compliance of several subcontractors during field activities, ensuring workers compliance with the approved Health and Safety Plan. Provide daily health and safety meetings for subcontractors informing them of potential hazards at project site. Other responsibilities included monitoring of gas vapor in confined space during pipe cleanup operation.

**Excavation of Lead-Impacted Soil, Hickam AFB, Kipapa Fuel Storage Annex. Field Engineer.**

Responsible for coordinating excavation and disposal of lead-impacted soil. Served as Health and Safety Officer during project duration. Responsibilities included conducting daily meetings, assessing potential health hazards at site, in situ monitoring of soil lead content using portable X-ray fluorescence (XRF) device. Provided TCLP results in compliance with fill requirements to classify excavated soil as special waste.

**Salvage Operation and Dismantling of Former Lihue Power Plant. Health and Safety Compliance Officer.**

Provided monthly oversight during salvage operation and dismantling of former Lihue Sugar Mill Power Plant. Conducted site inspection and photo documentation of potential on-site health hazards to recognize environmental concerns and recommend corrective actions as needed.

**Department of Defense Projects**

**Remedial Investigation/Feasibility Study, Hickam AFB, Waikakalau and Kipapa Fuel Storage Annex. Field Engineer.**

Responsible for day-to-day coordination of field activities on site, such as borehole drilling and monitoring well installation and development.

**Hickam AFB POL Long-term Ground Water Monitoring, Waikakalau and Kipapa Fuel Storage Annex, AFCEE.**

Data Validation Manager responsible for data compilation, validation, and electronic submission of 5 years of environmental data under strict AFCEE regulations.

**Engineering Evaluation/Cost Analysis for Operable Unit 1, Hickam AFB, Waikakalau and Kipapa Fuel Storage Annex. Field Engineer.**

Responsible for conducting vapor extraction, soil sampling, and ground water sampling at two former fuel storage annexes. Responsibilities included instrument maintenance and calibration and sample preparation.

**Air Quality Environmental Impact Study, Proposed Honolulu Bus Terminal, Hawaii DOT. Project Manager**

Responsible for preparing air quality impact study on three proposed sites for Honolulu Bus Terminal on Oahu. Part of study was to determine effect of additional traffic at proposed sites on quality of ambient air.

**Lead and Asbestos Inspection and Abatement, Kaneohe Marine Base Corps, HI. Project Manager**

Conducted asbestos and lead-based paint inspection on military housing units prior to demolition. Provided all necessary documents, including laboratory results, to obtain necessary clearance to dispose of potential asbestos-containing materials in local landfill.

**Key Compliance Assurance Projects**

**Hazardous Material Compliance Audit, Confidential Client. Northern California. Project Engineer**

Conducted monthly on-site compliance audit of 14 retail stores in Southern California to ensure compliance with California Department of Toxic Substance Control (DTSC) regulations. Work included audit of universal and hazardous material handling, storage, and disposal. Reviewed store documents and coordinated with store

District Safety Managers on how to improve handling of hazardous and universal waste generated by store.

**Environmental Compliance Audit, Hawaii Army National Guard, Honolulu, HI. Project Engineer**

Conducted on-site compliance audit of seven Hawaii Army National Guard facilities on the island of Oahu. The audit include review of handling, storage, and disposal of hazardous and non-hazardous waste.

**Tank Tightness Testing and Certification, Hickam AFB, HI. Project Manager**

Managed underground tank leak testing and compliance audit of gasoline stations at Hickam AFB, Bellow Air Force Station, and Kaena Point Satellite Station on Oahu. Conducted precision tank tightness testing site audit to ensure compliance with USEPA regulations and requirements.

**Compliance Audit, United Green Mark. Southern California. Field Engineer**

Conducted Phase I ESA and on-site compliance audit of four Green Mark Stores in Southern California. Work included audit of health and safety plan, emergency response plan, hazardous material handling, and spill prevention plan.

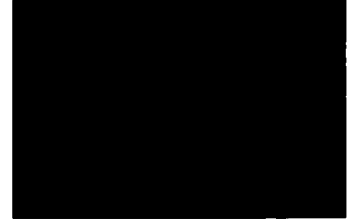
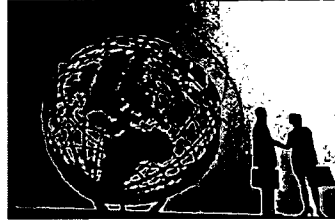
**Air Quality Monitoring and Compliance, Hawaii, Puna Geothermal Venture. Air Quality Regulatory Compliance Officer.**

Assisted Environmental Compliance and Safety Officer of Puna Geothermal Venture to monitor air quality and ambient noise in vicinity of geothermal plant.

**USEPA Volunteer Response Program, Costco Warehouse, Iwilei, HI. QA/QC Officer.**

Served as QA/QC Officer for Hawaii Department of Health during construction of Iwilei Costco warehouse as part of Volunteer Response Program. Responsible for ensuring work compliance with environmental remediation and liability agreement between HDOH and Costco Wholesale Company.

## Ashley Kerr



Ashley Kerr is an Environmental Scientist, having been with ERM for four years. Her areas of familiarity include environmental impact assessments and site planning, compliance auditing, information management systems, site investigation and remediation, and hazardous waste management. Her proficiency in computer applications provides the necessary means for many planning and assessment projects. Ashley has had experience working for both the government and private industry sector through organizations such as the County of Hawaii, County of Kauai, State of Hawaii, USAID and various land owners/developers in the state of Hawaii.

### Professional Affiliations & Registrations

- Certified Asbestos Inspector (State of Hawaii HIASB-2977)
- Certified Risk Assessor for Lead-Based Paint Activities (State of Hawaii PB-0265)

### Fields of Competence

- Environmental impact assessments
- Site planning
- Compliance auditing
- Information management systems
- Site investigation and remediation
- Hazardous waste management
- Brownfields redevelopment

### Education

- Masters of Science Candidate, Natural Resource and Environmental Management, University of Hawaii, current
- B.A. Environmental Studies, Hawaii Pacific University, 2006
- 40-Hour HAZWOPER Training

## **Key Projects**

### **Brownfields Inventory and Site Assessment Program, County of Kauai, HI**

Responsible for managing data for list of candidate contaminated sites on Kauai as part of USEPA-funded Brownfields program. Helped to determine need for remediation and possibilities for redevelopment.

### **Brownfields Inventory and Site Assessment Program, County of Hawaii, HI**

Served as Project Coordinator. Contributed to data gathering of potential contaminated sites for General List. Performed Phase I site assessments, sampling for Phase II site investigations and assisted in the preparation of the final reports.

### **Brownfields Inventory and Site Assessment Program, City and County of Honolulu, HI**

Currently serving as Project Coordinator. Responsible for community outreach and federal, state and county agency interaction in order to create an adequate inventory. Next steps include Phase I and II site assessments of priority sites.

### **All Appropriate Inquiry (AAI) Phase I ESA for Industrial Subdivision in Kawaihae, HI**

Conducted an AAI Phase I ESA on behalf of the law firm Latham & Watkins for their client interested in funding a project on the Big Island. Tasks included a literature search on transfer of ownership and utilization of the site and adjacent properties, as well interviews of present and previous tenants and a record search of spills and environmental compliance issues.

### **Remediation Oversight for Kona Carbon, Kawaihae, HI**

Provided remediation oversight for the clean up of an industrial site in Kawaihae, HI. Prepared a Sampling and Analysis Plan for confirmation sampling of the removal of waste. Served as the interface between the State Department of Health, site owner and site user to obtain a clean bill of health for the project site.

### **Compliance Support, Hawaii Army National Guard, Oahu**

Provided assistance to HIARNG environmental program managers in preparation for National Guard Bureau auditing. Responsible for reviewing and identifying potential violations in order to develop and execute corrective actions at the various facilities prior to audits.

### **Hilo Transfer Station, Environmental Site Assessment, Hawaii**

Serving as field technician and providing analytical data interpretation. The scope of work for this project includes an evaluation of past operations and activities at the Site, identification of potential environmental impacts and the performance of sampling and analysis to determine the areas of concern through surface soil sampling, electromagnetic mapping of the area, and active and passive soil vapor analysis.

### **Shipman Properties, Keaau, Hawaii**

Responsible for extensive research of historical land uses of the islands dealing with the use of sodium arsenite and lead arsenate as pesticides. Assisted Senior Geologist to conceptualize a cost-effective approach to dealing with contaminated soils on land wishing to be used for a resort.

### **Monsanto Due Diligence Site Assessments, Oahu and Molokai**

Responsible for data management of all files pertaining to the subject parcels and neighboring properties. Assisted in the sampling and analysis of soils as well as the document review process pertaining to previous land uses and possible environmental concerns.

### **Pi'ilani Farm Survey, Maui**

Assisted in performing a Phase I ESA, environmental audit and groundwater resource study for a large agricultural lot in Maui prior to the Client acquiring the land.

### **Hazardous Materials Surveys, Kona and Kau Districts, Hawaii**

Currently performing hazardous materials surveys of all the County of Hawaii Parks and Recreation facilities in the North and South Kona and Kau districts. Work includes incremental soil sampling and bulk sampling for lead, asbestos and arsenic.

### **Site Investigation at the former Hilo Coast Power Plant, Pepeekeo, Hawaii**

Prepared a workplan and health and safety plan prior to performing surface soil sampling at the site of the former Hilo Coast Power Plant. Field activities were coordinated with the landowners and the Hawaii Department of Health.

**Asbestos and Lead Survey at the former Hilo Coast Power Plant, Pepeekeo, Hawaii**

Responsible for assisting in sampling of asbestos and lead in the buildings at the site of the former Hilo Coast Power Plant. Once results are received, will be responsible for the analysis of data in a final report.

**Well Installation and Monitoring, Airport Services International Group, Honolulu, HI**

Assisted project manager in installing, developing and sampling two monitoring wells and one recovery well after a spill was detected at a bulk fuel storage facility. A final report was submitted upon completion of all field activities.

**Kapalua Bay Resort, Maui, Hawaii**

Helped to prepare EIS document for demolition of the Kapalua Bay Hotel and the redevelopment of the area with condominiums and other facilities.

**Bountiful Resort, Taitung, Thailand**

Responsible for research dealing with indigenous tribes of the eastern side of island where resort is to be built and how to best represent them with creation of cultural park. Helped to identify possible environmental issues of area, including nearby nature preserve. Provided assistance in developing plan for environmental compliance and protection.

**Rebuilding of Roads and Bridges with USAID, Sumatra, Indonesia**

Responsible for managing data with proper environmental awareness for road and bridge reconstruction due to devastation from December 26, 2004 tsunami. Tasks included assistance in environmental assessments in compliance with US NEPA as well as Indonesia AMDAL standards.

**Asbestos Survey for Sugar Mills, Kauai**

Responsible for data gathering and management of information pertaining to the various sites and their environmental conditions.

**GE Healthcare (former AmeriHealth), Princeton, NJ**

Responsible for data management. Tasks included filing large amounts of previously abandoned information and using such information to adequately deal with auditing and compliance matters for international sites of manufacturing. Simple research of sites as well as their produced pharmaceuticals.

**Gerdau AmeriSteel, Raritan, NJ**

In charge of monitoring hazardous wastes being produced and taken from the facility. Performed daily site walkthroughs auditing safety, wastes and emissions helping to reach compliance levels. Started a formal filing system for company dealing with years of scattered data and a recycling program on the premises.

**Janssen Pharmaceutica, Titusville, NJ**

Assisted in public relations project by preparing proposal to local watershed to be accepted as environmentally friendly neighbor to community. Tasks included site walk-throughs and mapping of storage tanks and laboratories, as well as in-depth analysis of waste and runoff. Successful in winning award.



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