# **APPENDIX**



# PHASE I ENVIRONMENTAL SITE ASSESSMENT



### PHASE I ENVIRONMENTAL SITE ASSESSMENT

Miki Basin 200 Acre Property Proposed Industrial Area Miki Road (SE of Existing Airport Runway) Lanai City, Hawaii



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April 3, 2014

TRC Project No: 215880

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# Phase I Environmental Site Assessment Report April 3, 2014 Miki Basin – 200 Acre Property, Proposed Industrial Area, Lanai City, HI April 3, 2014

### **EXECUTIVE SUMMARY**

Subject to the qualifications and limitations stated in Section 1 of this report, TRC Environmental Corporation (TRC) was retained by Lanai Resorts, LLC to perform a Phase I Environmental Site Assessment (ESA) of approximately 200 acres of undeveloped land primarily located on the west side of Miki Road with approximately 35 of the 200 acres located on the east side of Miki Road. The Site is three and a half miles east of the Pacific Ocean and begins approximately 0.7 miles south of Kaumalapau Highway in Lanai City, Maui County, Hawaii (herein referred to as the "Site"). TRC's assessment was conducted in connection with the Clients' planned renovation of the Site to include light and heavy industrial areas. The Phase I ESA described in this report was performed in accordance with the scope and limitations of the American Society of Testing and Materials Practice E 1527-13 *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (ASTM E 1527-13). Limitations and/or deviations from the ASTM E 1527-13 standard are described in Section 1.3 of this report.

The Site is currently undeveloped land.

No transformers were observed on the Site. Utility owned pole-mounted transformers are located adjacent to the property area. It is unknown if the transformers may contain polychlorinated biphenyls (PCBs).

Based on information obtained from the site reconnaissance and available information, no underground storage tanks (USTs) or above ground storage tanks (ASTs) are located on the Site.

Freedom of Information Act (FOIA) record reviews were completed by TRC of Hawaii Department of Health's (DOH) available records. DOH records did not indicate any concerns associated with the Site.

As a result of the Phase I ESA, including but not limited to our visual observation of the Site; review of historical information, environmental databases, and information provided by the User; interviews with the current Site representative; and TRC's professional judgment, no *recognized environmental conditions* (RECs) associated with the Site, as defined by the ASTM E 1527-13 standard, were identified.

However, potential Vapor Encroachment Conditions (VECs) were identified with respect to the permanently out of use underground storage tank (UST) listing for the nearby Lanai Airport and the following listings for the Maui Electric Company (MECO) facility: Resource Conservation and Recovery Act (RCRA) Conditionally Exempt Small Quantity Generator (CESQG), Toxic Chemical Release Inventory System (TRIS), PCB Activity Database System (PADS) and SPILLS. As such, vapor encroachment onto the Site from this adjacent property could be a possibility, and based on Clients perceived risk, liability and/or corporate policy, may warrant further investigation; however, based on the lack of reported releases and/or associated regulatory status, the Lanai Airport UST and MECO facility identified as VECs have not likely caused a vapor encroachment onto the Site.

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This Executive Summary is part of this complete report; any findings, opinions or conclusions in this Executive Summary are made in context with the complete report. TRC recommends that the User read the entire report for all supporting information related to findings, opinions and conclusions.

### **1.0 INTRODUCTION**

TRC has prepared this Phase I ESA for Lanai Resorts, LLC (hereinafter "Clients" or "Users").

This report was prepared for and may be relied upon by Clients for the purposes set forth herein; it may not be relied on by any party other than the Clients and reliance may not be assigned without the express approval of TRC. Authorization for third party reliance on this report will be considered by TRC if requested by the Clients. TRC reserves the right to deny reliance on this report by third parties.

#### **<u>1.1</u>** Purpose and Scope of Services

The following Phase I ESA was performed for the Site identified as Miki Basin – Proposed Industrial Area 200 Acre Property primarily located on the west side of Miki Road with approximately 35 of the 200 acres located on the east side of Miki Road. The Site is approximately three and a half miles east of the Pacific Ocean and begins approximately 0.7 miles south of Kaumalapau Highway in Lanai City, Maui County, Hawaii (hereinafter the "Site"). A Site location map is included as **Figure 1**. This Phase I ESA has been prepared by TRC in accordance with the American Society for Testing and Materials E 1527-13 *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (ASTM E 1527-13) and is intended for the sole use of Clients/Users. TRC was authorized to perform this assessment by signed proposal dated February 26, 2014, from Mr. Thomas A. Hoen of Lanai Resorts, LLC (Clients).

The purpose of this assessment is to identify *Recognized Environmental Conditions* (RECs) at the Site, as defined by the ASTM E 1527-13 standard. The completion of this Phase I ESA report may be used to satisfy one of the requirements for the Users to qualify for the *innocent landowner*, *contiguous property owner*, or *bona fide prospective purchaser* limitations pursuant to Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), thereby constituting all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice as defined by 42 U.S.C. §9601(35)(B) of CERCLA.

TRC understands that this assessment is not funded with a federal grant awarded under the U.S. EPA Brownfields Assessment and Characterization program.

The Scope of Services for this Phase I ESA included the following tasks:

- Site and vicinity reconnaissance;
- Site and vicinity description and physical setting;
- · Historical source review and description of historical Site conditions;
- · Interviews with owners, operators, and/or occupants of the Site, and/or local officials;

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- Review of environmental databases and regulatory agency records;
- Review of previous environmental reports/documentation, as applicable;
- Review of environmental liens, if requested by the Users; and

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• Preparation of a report summarizing findings, opinions and conclusions.

Pursuant to the ASTM E 1527-13 standard, recommendations to conduct Phase II sampling or other assessment activities are not required to be included in this report. TRC can provide such recommendations upon request.

#### **<u>1.2</u>** Additional Services

Items outside the scope of the ASTM E 1527-13 standard include, but are not limited to:

•	Asbestos	<ul> <li>Industrial hygiene</li> </ul>
	Radon	<ul> <li>Health and safety</li> </ul>
•	Lead-based paint	<ul> <li>Ecological resources</li> </ul>
•	Lead in drinking water	<ul> <li>Endangered species</li> </ul>
•	Wetlands	<ul> <li>Indoor air quality including vapor</li> </ul>
•	Regulatory compliance	intrusion
•	Cultural and historic resources	<ul> <li>Biological agents</li> </ul>
		Mold

#### 1.3 Limitations and Deviations

#### 1.3.1 Accuracy and Completeness

The ASTM E 1527-13 standard recognizes inherent limitations for Phase I ESAs that apply to this report, including:

- Uncertainty Not Eliminated No Phase I ESA can wholly eliminate uncertainty regarding the potential for RECs in connection with a property. Data gaps identified during this Phase I ESA are listed in Section 7.4.
- Not Exhaustive A Phase I ESA is not an exhaustive investigation.
- Past Uses of the Property A review of standard historical sources at intervals less than five years is not required.

The Clients is advised that the Phase I ESA conducted at the Site is a <u>limited inquiry</u> into a property's environmental status, cannot wholly eliminate uncertainty, and is not an exhaustive assessment to discover every potential source of environmental liability at the Site. Therefore, TRC does not make a statement i) of warranty or guarantee, express or implied for any specific use; ii) that the Site is free of RECs or environmental impairment; iii) that the Site is "clean"; or iv) that impairments, if any, are limited to those that were discovered while TRC was performing the Phase I ESA. This limiting statement is not meant to compromise the findings of this report; rather, it is meant as a statement of limitations within the ASTM standard and intended scope of this assessment. Specific limitations identified during the Site reconnaissance are described in Section 5.1. Subsurface conditions may differ from the conditions implied by surface observations, and can be evaluated more thoroughly through intrusive techniques that are beyond

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the scope of this assessment. Information in this report is not intended to be used as a construction document and should not be used for demolition, renovation, or other construction purposes.

This report presents TRC's site reconnaissance observation, findings, and conclusions as they existed at the time of the Site reconnaissance. TRC makes no representation or warranty that the past or current operations at the property are, or have been, in compliance with all applicable federal, state and local laws, regulations and codes. TRC makes no guarantees as to the accuracy or completeness of information obtained from others during the course of this Phase I ESA report. It is possible that information exists beyond the scope of this assessment, or that information was not provided to TRC. Additional information subsequently provided, discovered, or produced may alter findings or conclusions made in this Phase I ESA report. TRC is under no obligation to update this report to reflect such subsequent information. The findings presented in this report are based upon reasonably ascertainable information and observed Site conditions at the time of the assessment.

This report does not warrant against future operations or conditions, nor does it warrant against operations or conditions present of a type or at a location not assessed. Regardless of the findings stated in this report, TRC is not responsible for consequences or conditions arising from facts that were not fully disclosed to TRC during the assessment.

An independent data research company provided the government agency database referenced in this report. Information regarding surrounding area properties was requested for approximate minimum search distances and was assumed to be correct and complete unless obviously contradicted by TRC's observations or other credible referenced sources reviewed during the assessment.

TRC is not a professional title insurance or land surveyor firm and makes no guarantee, explicit or implied, that any land title records acquired or reviewed, or any physical descriptions or depictions of the property in this report, represent a comprehensive definition or precise delineation of property ownership or boundaries.

#### 1.3.2 Warranties and Representations

This report does not warrant against: (1) operations or conditions which were not evident from visual observations or historical information provided; (2) conditions which could only be determined by physical sampling or other intrusive investigation techniques; (3) locations other than the Clients-provided addresses and/or legal parcel description; or (4) information regarding off-site location(s) (with possible impact to the Site) not published in publicly available records.

#### 1.3.3 Continued Validity/User Reliance

This report is presumed to be valid, in accordance with, and subject to, the limitations specified in the ASTM E 1527-13 standard, for a period of 180 days from completion, or until the Clients obtains specific information that may materially alter a finding, opinion, or conclusion in this report, or until the Clients is notified by TRC that it has obtained specific information that may

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materially alter a finding, opinion, or conclusion in this report. Additionally, pursuant to the ASTM E 1527-13 standard, this report is presumed valid if completed less than 180 days prior to the date of acquisition of the property or (for transactions not involving an acquisition) the date of the intended transaction.

#### 1.3.4 Deviations to ASTM E 1527-13 Standard

No significant deviations or deletions to the ASTM standard were made during this Phase I ESA.

#### 1.3.5 Significant Assumptions

During this Phase I ESA, TRC relied on database information; interviews with Site representatives, regulatory officials, and other individuals having knowledge of Site operations; and information provided by the Users as requested in our authorized Scope of Work. TRC has assumed that the information provided is true and accurate. Reliance on electronic database search reports is subject to the limitations set forth in those reports. TRC did not independently verify the information provided. TRC found no reason to question the validity of the information received unless explicitly noted elsewhere in this report. If other information is discovered and/or if previous reports exist that were not provided to TRC, our conclusions may not be valid.

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### 2.0 SITE DESCRIPTION

#### 2.1 Site Location and Legal Description

The Site is identified as portion of Tax Lot 4-9-002:001 and consists of approximately 200 acres of undeveloped land primarily located on the west side of Miki Road with approximately 35 of the 200 acres located on the east side of Miki Road. The Site is approximately three and a half miles east of the Pacific Ocean and begins approximately 0.7 miles south of Kaumalapau Highway in Lanai City, Maui County, Hawaii. The Site is currently owned by Lanai Resorts, LLC. A Site location map is included as **Figure 1**.

#### 2.2 Site Improvements

Current on-site improvements are listed in the following table.

Site Feature	Description
Building (stories)	None
Construction date	N/A
Exterior areas	N/A
On-site roads/rail lines	Miki Road
Other large equipment	Utility owned and operated pole-mounted transformers were located adjacent to the property. The transformers were either not accessible or not labeled, and it is and unknown if the transformers may contain PCBs.
Potable water supply	N/A
Sewage disposal system	N/A
Heating/Cooling System	N/A
Back-Up fuel source	N/A
Electricity supplier	Property doesn't currently have service; however, Maui Electric Company serves the entire island.
Storm water system	Runoff

#### 2.3 Current and Historical Site Use

#### 2.3.1 Current Site Use(s)

The Site is currently undeveloped.

#### 2.3.2 Previous Owner and Operator Information

The Site is believed to have always been undeveloped and utilized for agricultural purposes associated with the island's pineapple plantation.

#### 2.4 Physical Setting

According to the United States Geological Survey (USGS) topographic map, Lanai City, HI quadrangle dated 1992, the Site is located approximately three and a half miles to the east of the

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Pacific Ocean, the Site topographic elevation is approximately 1,247 feet above mean sea level (MSL), and local topography slopes to the west-southwest. Based on local topography and historical environmental reports provided to TRC, as applicable, the assumed direction of shallow ground water flow is to the west-southwest towards the Pacific Ocean. However, a subsurface investigation would be required to determine actual ground water flow direction.

The database radius report supplied by Environmental Data Resources, Inc. (EDR) of Shelton, Connecticut was reviewed to obtain information regarding the dominant soil composition in the Site vicinity. This information is summarized below:

Hydric Status:	Unknown
Soil Surface Texture:	Silty Clay Loam
Soil Component Name:	Molokai
Deeper Soil Types:	Molokai Silty Clay Loam

Please refer to the Geocheck Physical Setting Source Summary of the EDR report presented in Appendix A for further information regarding the soil composition in the Site vicinity.

Per Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map 150030500F (Panel 500 of 825), dated September 19, 2012, the Site is located in Zone X (unshaded). According to FEMA's Flood Zone Designations, Zone X represents a minimal flood hazard; that is those areas outside the Special Flood Hazard Area (SFHA) and higher than the elevation of the 0.2-percent-annual-chance flood. The FEMA Flood Insurance Rate Map is provided in Appendix E.

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#### 3.0 USER PROVIDED INFORMATION

According to the ASTM E 1527-13 standard, certain tasks that may help identify the presence of RECs associated with the Site are generally conducted by the Phase I ESA User. These tasks include: reviewing title records for environmental liens or activity and land use limitations; providing specialized knowledge related to RECs at the Site (e.g., information about previous ownership or environmental litigation); and providing explanations for significant reduction in the Site purchase price. A list of requested information was included in TRC's proposal date and executed February 26, 2014 (see Section 1.1). The information was provided by the User on March 20, 2014 and is included in Appendix B.

#### 3.1 Title & Judicial Records for Environmental Liens or Activity and Use Limitations

The User did not provide any information regarding environmental concerns associated with title or judicial records, or the existence of environmental liens or activity and use limitations (AULs) for the Site. Completion of an additional title and judicial record search was requested by the User

The environmental lien and AUL search report supplied by EDR of Shelton, Connecticut indicated environmental liens and AULs were not found for the Site and a copy of the EDR search report is included in Appendix C.

#### Specialized Knowledge 3.2

The User did not provide any specialized knowledge related to potential RECs at the Site.

#### <u>3.3</u> **Property Value Reduction Issues**

The User did not provide any property valuation reduction issues regarding the Site.

#### Commonly Known or Reasonably Ascertainable Information <u>3.4</u>

TRC was supplied with commonly known and/or reasonably ascertainable information regarding the Site by Mr. Thomas A. Hoen of Lanai Resorts, LLC. This information was used during this Phase I ESA and has been incorporated in this report as applicable.

#### <u>3.5</u> **Reason for Conducting Phase I**

TRC understands that the Users require a Phase I ESA as part of a study to pursue land use approval to use the land as an industrial park. According to the Users, the land is currently zoned as agricultural.

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#### 4.0 RECORDS REVIEW

#### 4.1 Sources of Information

Information regarding Site and vicinity historical uses was obtained from various publicly available and practically reviewable sources including: aerial photographs; topographic maps; city directories; local municipal records; an environmental database report; and interviews with Site representative(s) and regulatory agency official(s), as necessary. The historical documents were obtained from Environmental Data Resources (EDR) and are included in **Appendix C**.

#### 4.2 Historical Use Information

Historical use information regarding the Site and surrounding properties was obtained from available municipal records as well as aerial photographs (scale:  $1^{"} = 750^{"}$ ) dated 1952; aerial photographs (scale:  $1^{"} = 500^{"}$ ) dated 1992; topographic maps dated 1984 and 1992; and city directories from 1997, 1999 and 2103.

#### 4.2.1 Site History

#### **Operational History**

Year	Site History	
1920 - Present	Lanai City was reportedly first developed in the early 1920's. The Site appears undeveloped.	

It does not appear that topographic contours in the Site area have significantly changed during the time period reviewed.

#### **Hazardous Substances**

No hazardous substances or petroleum products were observed at the Site during the Site reconnaissance.

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#### 4.2.2 Adjoining Property and Surrounding Property History

Year	Adjoining Property History	
1993 – Present	Review of historic aerial photographs and topographic maps depict the area to the northwest of the site as property used for the Lanai Airport. According the Maui County Tax Assessor Website, the MECO Power Plant Facilities were developed with three large warehouse structures in 1996 north of the warehouse structure. All other areas surrounding the Site are depicted as undeveloped land utilized for agricultural and pineapple plantation activities. Pineapple plantation activities ceased operation in 1992.	
1977 – 1992	Review of historic aerial photographs and topographic maps depict the area to the northwest of the site as area property used for the Lanai Airport. A storage warehouse structure is reportedly developed to the west of Miki Road to the east of the Site in 1977. All other areas surrounding the Site are depicted as undeveloped land utilized for agricultural and pineapple plantation activities	
1952 –1976	Review of historic aerial photographs and topographic maps depict the area to the northwest of the site as area property used for the Lanai Airport. All other areas surrounding the Site are depicted as undeveloped land utilized for agricultural and pineapple plantation activities.	
1920 – 1952	Lanai City was reportedly first developed in the early 1920's. The Site appears undeveloped.	

#### 4.3 Database Report

A database search report that identifies properties listed on state and federal databases within the ASTM-required radii of the Site was obtained from EDR and is included in **Appendix A**. The environmental database report identified 21 properties/listings. These properties included those that could be mapped and those that could not (i.e., orphan properties).

#### Subject Site

The Site was not identified within any of the databases searched with the identified ASTMrequired radii of the Site.

#### Adjacent and Surrounding Properties

TRC evaluated the following factors to determine whether additional environmental records with respect to the adjoining and/or surrounding properties should be reviewed:

- Whether the property is up-gradient or down-gradient of the Site based on the local topography and the assumed south-southwest shallow ground water flow direction;
- Property case status (e.g., whether the Hawaii Department of Health has issued a No Further Action letter, etc.);

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- (3) Type of database and whether the presence of contamination is known; and
- (4) The distance between the listed property and the Site.

**REF-296** 

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In addition, the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) 42 U.S.C. § 9601(22) defines a "release" as "any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment (including the abandonment or discharging of barrels, containers, and other closed receptacles containing any hazardous substances or pollutant or contaminant)." According to CERCLA, the term "environment" includes (A) the navigable waters, the waters of the contiguous zone, and the ocean waters...and (B) any other surface water, groundwater, drinking water supply, land surface or subsurface strata ... " Given that CERCLA and the All Appropriate Inquiries Final Rule 40 CFR Part 312 do not differentiate by form (e.g., solid, liquid, vapor) of the release to the environment, Section 2.1 of ASTM E1527 Standard indicates that, "Vapor migration must be considered no differently than contaminated groundwater migration in the Phase I investigation." Vapor intrusion generally occurs when there is a migration of volatile chemicals from contaminated groundwater or soil into an overlying building. Volatile chemicals can emit vapors that may migrate through subsurface soils and into indoor air spaces of overlying buildings. Volatile chemicals may include volatile organic compounds, select semivolatile organic compounds, and some inorganic analytes. In accordance with ASTM E2600 -10 Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions, listings for potential volatile organic compounds (VOC) impacted properties located within 1,760-foot radius of the Site and listings for potential petroleum-impacted properties located with a 520-foot radius of the Site were reviewed as a component of this investigation. Potential Vapor Encroachment Conditions (VECs) were identified for properties located within the referenced radii.

Based on this evaluation, TRC limited the review of additional environmental records to the properties listed below, since the potential for contamination to be migrating to the Site from the other properties identified by the database search is considered low.

Facility Name and/or Address	Lanai Airport – Lanai City, HI
Approximate Location Relative to Site	0.001 miles to the northwest
EDR Map No.	1
Databases	UST
Description/ID Number	UST – U003222164
Presumed Hydrogeologic Setting	Up-gradient
Database Review Summary	This property had one 350 gallon UST that was reportedly closed in 1994 and currently listed as Permanently Out of Use. This facility is within the 520-foot radius for potential petroleum-impacted properties and is within the 1,760-foot radius for potential VOC-impacted properties and meets the definition of a VEC based on ASTM 2600 – 10. However, based on the current regulatory status, it is not expected that vapor migration is presently a concern to the Site.

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Facility Name and/or Address	Maui Electric Company – 1001 N Miki Road, Lanai City, HI
Approximate Location Relative to Site	Southeast of the Site property boundary
EDR Map No.	Orphan Listing
Databases	RCRA-CESQG, PADS, SPILLS, US AIRS, AIRS, TRIS, HAZNET and FINDS
Description/ID Number	Reference Database Report in Appendix A.
Presumed Hydrogeologic Setting	Cross-gradient
Database Review Summary	This property has multiple listings including three small quantity spills and is a generator of small quantities of hazardous waste; however two of the three listings have been reported as cleaned up with No Further Action (NFA) status issued. The property is also equipped with AST's associated with the power generation plant. This facility is within the 520-foot radius for potential petroleum-impacted properties and meets the definition of a VEC based on ASTM 2600 – 10. However, based on the current regulatory status, it is not expected that vapor migration is presently a concern to the Site.

According to the regulatory database report, EDR did not identify any historical auto stations (i.e., gasoline stations, filling stations, automobile repair shops, auto service stations, etc.) or historical cleaners (e.g., dry cleaners, laundromats, laundry services, wash & dry establishments, etc.) within  $\frac{1}{3}$  of a mile of the Site.

#### 4.4 Previous Reports

No environmental reports related to the Site were provided to TRC for review and inclusion into this report.

#### 4.5 Other Environmental Record Sources

Per the ASTM standard, local or additional state records were reviewed to enhance and supplement the ASTM-required federal and state records reviewed and discussed earlier in this report. Local sources that were contacted to obtain this information include: the Hawaii Department of Health, the Lanai Fire Station, the Maui County Tax Assessor, and the Maui County Department of Environmental Management. Information from these sources is discussed below:

Source	Available Information
Hawaii Department of	According to information provided via online public records, the Hawaii
Health	Department of Health does not appear to have any records pertaining to the Site.

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Source	Available Information
Maui County Tax Assessor	According to information provided via online public records, the Maui County Tax Assessor has identified the Site as a portion of Tax Lot 4-9-002:001. Additional property size and ownership information was also provided. MECO Power Plant facility is identified as Tax Lot 4-9-002-050 and is 5 acres.
Maui County	According to information provided via online public records, the Maui County
Environmental	Environmental Management Department does not appear to have any records
Management Department	pertaining to the Site.
Maui County – Planning	Lanai Fire Department Captain, Todd McDonald, was unaware of any chemical
Department	spills or hazardous waste concerns at the Site.

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### 5.0 SITE RECONNAISSANCE

#### Methodology and Limiting Conditions <u>5.1</u>

Ms. Kacey Swindle and Mr. Ron Landolt conducted a Site reconnaissance of accessible areas on and around the Site on March 11, 2014, for the purpose of identifying potential RECs, and were unaccompanied during the Site reconnaissance. Photographs taken during the reconnaissance are provided in Appendix D.

#### 5.2 Interior and Exterior Site Observations

Unless otherwise noted, the items listed in the table below appeared in good condition with no visual evidence of staining, deterioration or a discharge of hazardous materials; and there are no records of a release in these areas. Items where further description is warranted are discussed in the section(s) following the table.

Item	Present (Yes/Yes- Historic/No)	Description
Hazardous material storage or handling areas	No	
Aboveground storage tanks (ASTs) and associated piping	No	
Underground storage tanks (USTs) and associated piping	No	
Drums & containers (≥5 gallons)	No	
Odors	No	
Pools of liquid, including surface water bodies and sumps (handling hazardous substances or substances likely to be hazardous only)	No	
Polychlorinated Biphenyls (PCBs) / Transformers	No	
Stains or corrosion	No	
Drains & sumps	No	
Pits, ponds & lagoons	No	
Stressed vegetation	No	
Historic fill or any other fill material	No	
Waste water (including storm water or any discharge into a drain, ditch, underground injection system, or stream on or adjacent to the Site)	No	
Wells (including dry wells, irrigation wells, injection wells, abandoned wells, or other wells)	No	
Septic systems or cesspools	No	

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#### 5.2.1 Hazardous Substances

Hazardous substances and petroleum products were not observed at the Site during the Site reconnaissance.

#### 5.3 Adjoining and Surrounding Properties Reconnaissance

#### 5.3.1 Adjoining Properties

Direction from Site	Current Land Use Description	
North	Undeveloped land with Kaumalapau Highway beyond	
East	MECO Power Plant Facility and the storage warehouse, metal scrapyard and Maui disposal Sites are located to the east of the Site property boundary along with Miki Road followed by undeveloped land	
South	Undeveloped land	
West	Undeveloped land with the Lanai City Airport to the northwest	

TRC observed one 55 gallon metal drum partially filled with gasoline, one 55 gallon plastic drum partially filled with oil and one 5 gallon bucket with an unknown material located on a wooden pallet in an unsecured plastic truck bed liner in the metal scrapyard area located on the existing industrial facility owned and operated by Lanai Resorts, LLC to the east of the Site and south of the MECO facility. Reportedly these materials were in the process of being removed from the site, and TRC did not observe any evidence of spills or releases associated with the materials.

#### 5.3.2 Surrounding Properties

The local setting is predominantly undeveloped land with the exception of the MECO Plant and the existing Lanai Resorts, LLC industrial facility between the Site and Miki Road as well as the Lanai City airport to the northwest of the Site.

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#### 6.0 INTERVIEWS

The following persons were interviewed to obtain historically and/or environmentally-pertinent information regarding RECs associated with the Site.

- Mr. Thomas A. Hoen of Lanai Resorts, LLC Director of Development and Construction
- Mr. Wayne Ishizaki of Lanai Resorts, LLC Site Contact
- Mr. Todd McDonald of Lanai Fire Department Chief

The information provided by each is discussed and referenced in the text and/or provided below. Other references and sources of information are included in **Appendix E**.

Mr. Hoen was unaware of any hazardous materials incidents, spills, illegal dumping, or any other potential environmental threats or conditions that may pose a past, present, or material threat of release to the Site.

Mr. Ishizaki was unaware of any hazardous materials incidents, spills, illegal dumping, or any other potential environmental threats or conditions that may pose a past, present, or material threat of release to the Site.

Mr. McDonald was unaware of any hazardous materials incidents, spills, or any other potential environmental threats or conditions that may pose a past, present, or material threat of release to the Site.

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#### 7.0 FINDINGS, OPINIONS AND CONCLUSIONS

Potential findings can include RECs, historical RECs (HRECs), and *de minimis* conditions, pursuant to the ASTM E 1527-13 standard.

RECs are defined as the presence or likely presence of any *hazardous substances* or *petroleum products* on a property under conditions that indicate an existing release, a past release, or a *material threat* of a release of any *hazardous substances* or *petroleum products* into structures on the property or into the ground, ground water, or surface water of the property. The term includes *hazardous substances* or *petroleum products* even under conditions in compliance with laws. The term is not intended to include *de minimis* conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

HRECs are defined as an environmental condition which in the past would have been considered a REC, but which may or may not be considered a REC currently.

TRC has performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527-13 at the 200 acre property located on the west side of Miki Road with approximately 35 of the 200 acres located on the east side of Miki Road in Lanai City, Maui County, Hawaii (Site); see **Appendices F and G**. Deviations from this practice are described in Section 1.3 of this report.

#### 7.1 RECs

This assessment has revealed no evidence of RECs in connection with the Site.

#### 7.2 HRECs

This assessment has revealed no evidence of HRECs in connection with the Site.

#### 7.3 De Minimis Conditions

This assessment has revealed no evidence of *de minimis* conditions in connection with the Site.

7.4 Data Gaps

TRC has made an appropriate inquiry into the commonly known and reasonably ascertainable resources concerning the historical ownership and use of the Site back to the first development per 40 CFR Part 312.24 (*Reviews of Historical Sources of Information*). TRC did not identify any data gaps during this assessment.

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### 8.0 REFERENCES

Description/Title of document(s) received or agency contacted	Date information request filled/date of agency contact	Information Updated	Reference source
Environmental Data Resources	March 10, 2014	N/A	http://www.edrnet.com/
Federal Emergency Management Agency	March 31, 2014	N/A	http://www.fema.gov/
Hawaii Department of Health	March 10, 2014	N/A	http://health.hawaii.gov
Maui County Fire Department	March 11, 2014	N/A	Chief Todd McDonald via in person interview
Maui County – Assessor, Planning, Environmental Management	March 12, 2014	N/A	http://www.co.maui.hi.us

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### 9.0 ADDITIONAL SERVICES

No additional services were performed for the Site during this Phase I ESA.

**FIGURES** 

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