JOSH GREEN, M.D.
GOVERNOR

KEITH T. HAYASHI
SUPERINTENDENT

STATE OF HAWAI`I
DEPARTMENT OF EDUCATION
KA ʻOIHANA HOʻONAʻAUAO
P.O. BOX 2360
HONOLULU, HAWAI`I 96804

OFFICE OF FACILITIES AND OPERATIONS

May 31, 2024

TO: Mary Alice Evans
Director, Office of Planning and Sustainable Development

FROM: Jadine Urasaki Jadine Urasaki (May 31, 2024 15:04 HST)
Public Works Administrator, Facilities Development Branch

SUBJECT: Chapter 343 Environmental Assessment and Finding of No Significant Impact
Kalama Intermediate School Modular Administration Building
Job No.: Q53220-23
Tax Map Key: (2) 2-04-032:109
Makawao, Maui, Hawaii

The Hawaii State Department of Education (Department) hereby transmits the Draft Environmental Assessment and Anticipated Finding of No Significant Impact (DEA-AFONSI) for the proposed Kalama Intermediate School Modular Administration Building Project located in the Makawao District on the island of Maui, for publication in the next available edition of *The Environmental Notice*.

The Department has uploaded an electronic copy of this letter, and a searchable portable document format file of the DEA-AFONSI to your online submittal site.

Should you have any questions, please contact Nestor Butac, Project Coordinator of the Facilities Development Branch, Project Management Section, at (808) 784-5128 or via email at nestor.butac@k12.hi.us. You may also contact our consultant, Matthew Fernandez of Bowers+Kubota Consulting, Inc. at (808) 836-7787, Extension 386, or via email at mfernandez@bowersandkubota.com.

JU:nb
Attachments: 1) Draft Environmental Assessment and Anticipated Finding of No Significant Impact

c: Matthew Fernandez, Bowers+Kubota Consulting, Inc.
Office of Facilities and Operations
Facilities Development Branch

From: webmaster@hawaii.gov
To: DBEDT OPSD Environmental Review Program
Subject: New online submission for The Environmental Notice
Date: Monday, June 3, 2024 2:35:41 PM

Action Name

Kalama Intermediate School Modular Administration Building

Type of Document/Determination

Draft environmental assessment and anticipated finding of no significant impact (DEA-AFNSI)

HRS §343-5(a) Trigger(s)

- (1) Propose the use of state or county lands or the use of state or county funds

Judicial district

Makawao, Maui

Tax Map Key(s) (TMK(s))

(2) 2-4-032: 109

Action type

Agency

Other required permits and approvals

HRS Chapter 6E, Community Noise Permit, Grading Permit, Building Permit, Water Use Permit, Sewage Connection

Proposing/determining agency

State of Hawaii, Department of Education, Facilities Development Branch

Agency contact name

Nestor Butac

Agency contact email (for info about the action)

nestor.butac@k12.hi.us

Email address or URL for receiving comments

mfernandez@bowersandkubota.com

Agency contact phone

(808) 784-5128

Agency address

P.O. Box 2360
Honolulu, Hawaii 96804
United States
Map It

Is there a consultant for this action?

Yes

Consultant

Bowers and Kubota Consulting, Inc.

Consultant contact name

Matthew Fernandez

Consultant contact email

mfernandez@bowersandkubota.com

Consultant contact phone

(808) 836-7787

Consultant address

2153 North King Street, Suite 200
Honolulu, HI 96819
United States
Map It

Action summary

The State Department of Education is proposing to construct a new Modular Administration Building on the Samuel Enoka Kalama Intermediate School (KIS) campus. The proposed facility would be a two-story building that will contain several staff offices, conference rooms, a health room, a staff lounge, a lobby, and a general school office space. The proposed Administration Building will be occupied by existing KIS faculty and staff whom are consolidated in the new building from space being used within other school buildings.

The Proposed Action will also involve constructing connecting concrete walkways, landscaping, and providing extensions of existing electrical, communications, water, sewer, and drainage utilities within the school to service the new building. Overall, the proposed building dimensions
would be about 43 feet wide, 181 feet long and encompass
approximately 15,000-square feet. An area of about 0.55-acres would be used for this project and accessory improvements.

Reasons supporting determination

A FONSI determination should be warranted for this Project based upon the assessment results and information provided in the Draft EA document. The findings supporting this determination are based upon evaluation of the 13 Significance Criteria and are discussed in Chapter 6 of the EA.

Attached documents (signed agency letter & EA/EIS)

- 240531-DOE-Kalama-IS-Draft-EA-FINAL_COMBINED.pdf
- 340531-DEA-AFONSI-Kalama-Admin-Bldg_Transmittal-Ltr.pdf

Action location map

- Kalama-IS-Admin-Bldg-Project-Area.zip

Authorized individual

Matthew Fernandez

Authorization

- The above named authorized individual hereby certifies that he/she has the authority to make this submission.

DRAFT ENVIRONMENTAL ASSESSMENT

Kalama Intermediate School Modular Administration Building Project

Makawao, Island of Maui, Hawai‘i

May 2024

Proposing Agency:
State of Hawai‘i,
Department of Education

Prepared By:
Bowers + Kubota
Consulting

Kalama Intermediate School
Modular Administration Building Project

TMK: (2) 2-4-032: 109

Makawao, Island of Maui

DRAFT ENVIRONMENTAL ASSESSMENT

May 2024

Proposing Agency:

State of Hawai‘i

Department of Education

Office of Facilities and Operations

Prepared by:

Bowers + Kubota Consulting, Inc.

2153 North King Street, Suite 200

Honolulu, Hawai‘i 96819

This page intentionally left blank

PROJECT SUMMARY TABLE

This Draft Environmental Assessment (EA) has been prepared in accordance with the requirements of Chapter 343, Hawai'i Revised Statutes (HRS) and Hawai'i Administrative Rules (HAR) Title 11-200.1 Environmental Impact Statement Rules.

Project Name:	Kalama Intermediate School Modular Administration Building Project
Applicant and Approving Agency:	Ms. Jadine Urasaki, Public Works Administrator Facilities Development Branch State of Hawai'i, Department of Education P.O. Box 2360 Honolulu, HI 96804
Authorized Agent (EA Preparer):	Bowers & Kubota Consulting, Inc. 2153 N King Street, Suite 200 Honolulu, HI 96819-4554 Contact: Matthew Fernandez, Planner Email: mfernandez@bowersandkubota.com
HRS §343 Trigger:	Proposed use of State lands and funds
Project Location:	120 Makani Road, Makawao, Maui Island, Hawai'i 96768
Tax Map Key Parcel:	(2) 2-4-032:109
Project Size:	Approximately 24,075 square feet (0.55-acres)
Landowner:	State of Hawai'i
Existing Use on Project site:	Open grass lawn area with trees and picnic tables within the school campus.
State Land Use District:	Urban
County of Maui Zoning:	P-1 Public/Quasi-Public
Special Management Area (SMA):	Outside of SMA
Flood Zone Designation:	Zone X (Area outside the 500-year floodplain)
Proposed Action:	The DOE is proposing to construct a new Modular Administration Building on the Samuel Enoka Kalama Intermediate School campus. The proposed facility would be a two-story building that will contain several staff offices, conference rooms, a health room, a staff lounge, a lobby, and a general school office space. The proposed Modular Administration Building will be occupied by existing KIS

	faculty and staff whom are consolidated in the new building from space being used within other school buildings. The Proposed Action will also involve constructing connecting concrete walkways, landscaping, and providing extensions of existing electrical, communications, water, sewer, and drainage utilities within the school to service the new building. Overall, the proposed building dimensions would be about 43 feet wide, 181 feet long and encompass approximately 15,000-square feet. An area of about 0.55 acres would be used for this project and accessory improvements, such as walkway connections.
Permits and Approvals Needed for the Project:	HRS Chapter 6E Compliance Community Noise Permit Grading Permit Building Permit Water Use Permit Sewage Connection
Determination:	Anticipated Finding of No Significant Impact (AFONSI)

TABLE OF CONTENTS

Chapter Description **Page**

LIST OF FIGURES

LIST OF TABLES

LIST OF APPENDICES

LIST OF ACRONYMS

AADT Annual Average Daily Traffic

AAQS Ambient Air Quality Standards

AFONSI Anticipated Finding of No Significant Impact

AIS Archaeological Inventory Survey

ALISH Agricultural Lands of Importance to the State of Hawai'i

AMSL Average Mean Sea Level

APE Area of Potential Effect

AQI Air Quality Index

BMP Best Management Practice

CDP Census Designated Place

CFS Cubic Feet per Second

CIA Cultural Impact Assessment

CIP Capital Improvements Program

CREC Controlled Recognized Environmental Conditions

CZM Coastal Zone Management

dBA Decibel (A-weighted sound level)

DLNR Department of Land and Natural Resources, State of Hawai'i

DOE Department of Education, State of Hawai'i

DOH Department of Health, State of Hawai'i

DEM Department of Environmental Management, County of Maui

DWS Department of Water Supply, County of Maui

EA Environmental Assessment

EPA Environmental Protection Agency

ESA Endangered Species Act

ESA Phase 1 Environmental Site Assessment

FEMA Federal Emergency Management Agency

FONSI Finding of No Significant Impact

GHG Greenhouse gas

HAR Hawai'i Administrative Rules

HDOT Department of Transportation, State of Hawaii

HREC Historical Recognized Environmental Conditions

HRS Hawai'i Revised Statutes

IAL Important Agricultural Lands

KIS Kalama Intermediate School

Ksat Saturated Hydraulic Conductivity

LOS Level of Service

LRFI Literature Review and Field Inspection

LUC Land Use Commission

MECO Maui Electric Company

MGD Million Gallons per Day

MPH Miles per Hour

NHPA National Historic Preservation Act (16 U.S.C. § 470(F))

NOAA National Oceanic and Atmospheric Administration

NPDES National Pollutant Discharge Elimination System

OPSD Office of Planning and Sustainable Development

PEC Potential Environmental Concerns

REC Recognized Environmental Conditions

SFP Hawaii State Functional Plans

SHPD State Historic Preservation Division

SLR-XA Sea Level Rise Exposure Area

SLUD State Land Use District

SMA Special Management Area

TIAR Traffic Impact Analysis Report

TMK Tax Map Key

USGS United States Geological Survey

USFWS United States Fish and Wildlife Service

VPH Vehicles Per Hour

This page intentionally left blank

1.0 PROJECT DESCRIPTION

1.1 BACKGROUND

Opened in 1985, Samuel Enoka Kalama Intermediate School (KIS) is a State of Hawai'i (State), Department of Education (DOE) school located in the heart of Upcountry Maui in the Makawao district. Known as the 50 Mile Bridge School, KIS has the largest geographic boundary of any school in the State as it serves as the prominent intermediate school for five distinct Upcountry Maui communities: Pā'ia, Makawao, Kula, Pukalani and Haiku. KIS serves grades 6 to 8 and receives their students from the elementary schools serving these five communities. KIS has a student enrollment averaging about 865 students over the past two years (2021 to 2022) and a total staff of 119 persons (faculty, administration, support).

The 10.4-acre KIS campus contains many typical facilities of an intermediate school which includes classrooms, staff offices, a library, playing field, athletic courts and facilities, and a central gathering area. However, of concern is KIS's administrative program is space-limited with staff offices and facilities currently scattered in various buildings and rooms throughout the KIS campus. Therefore, the DOE's Facilities Development Branch is proposing the construction of a new Modular Administration Building for KIS to consolidate administration operations improving efficiency.

1.2 PURPOSE FOR ENVIRONMENTAL ASSESSMENT

Chapter 343 (Environmental Impact Statements), Hawai'i Revised Statutes (HRS), establishes a system of environmental review at the State and County levels to ensure that environmental concerns are given appropriate consideration in decision-making along with economic and technical considerations. The State of Hawaii, Office of Planning and Sustainable Development's (OPSD) Environmental Review Program facilitates the environmental review process in Hawaii.

This project triggers the State's environmental review process under HRS Chapter 343, as amended, and Title 11, Chapter 200.1 (Environmental Impact Statement Rules) of the State Department of Health's Hawai'i Administrative Rules (HAR), as amended (State of Hawai'i, 2019) because the action involves:

1. *Use of State Funds.* State funds would be used for the construction of the new modular administration building.
2. *Use of State Lands.* The project involves the construction of State facilities on the KIS property which is a State-owned land.

Consequently, this Draft Environmental Assessment (Draft EA) document has being prepared in accordance with these regulations to allow for the use of State lands and funds for the construction of the Project. Pre-assessment consultation comments received as part of the preparation of this Draft EA document are included in Appendix A.

Applicant Background

The Applicant or Proposing Agency for this project is the State of Hawai'i DOE Facilities Development Branch within the Office of Facilities and Operations. DOE is the only statewide public school district in the country and is comprised of 15 complex areas and 258 schools. Each of the 15 complex areas are managed by the DOE and are comprised of two to four school complexes, consisting of a high school and the elementary and middle/intermediate schools that feed into it.

State tax revenue bonds are primarily used for the day-to-day operations of DOE schools and offices. DOE funds for the development and upgrade of school and office facilities come from their Capital Improvements Program (CIP) budget sourced mostly from state bonds. The CIP pays for renovations, repairs and maintenance to existing facilities, landscape improvements, new construction, land acquisition, and utility modifications for its public schools.

Approving Agency

The project is an "Agency Action" under the State's environmental review regulations because the project involves the use of State land and funds. The DOE will serve as the "Approving Agency" for the processing of this environmental assessment document and currently anticipates a Finding of No Significant Impact (FONSI) determination.

Bowers + Kubota Consulting, Inc. (B+K) is serving as the "Authorized Agent" on behalf of the DOE (Applicant) in the preparation of this Draft EA. This Draft EA was prepared pursuant to Chapter 343, Environmental Impact Statements, HRS, as amended and the State Department of Health's Title 11, Chapter 200.1, HAR (Environmental Impact Statement Rules) (State of Hawai'i, 2019).

1.3 PROJECT PURPOSE AND NEED

The DOE has been undertaking an initiative to expedite facility upgrades and plans for school facility needs throughout the State. Part of this initiative is for the development and design of 21st century school facilities with innovative designs with the intent of providing students and teachers with more creative and flexible educational and programmatic spaces while reducing costs.

The DOE's Facilities Development Branch within the Office of Facilities and Operations is proposing the development of a new Modular Administration Building for KIS. The essence of a modular structure is that most of the building will be factory built and then shipped to be assembled at the project site. The proposed design would allow for future DOE administration buildings to be customized by rearranging the developed units and in turn reduce costs and the construction timeframe. The proposed administration building is intended to allow the consolidation of KIS's administration programs from other building locations and free up those existing spaces for other educational or program uses.

The purpose of the project, also referred to as the Proposed Action, is thus two-fold: 1) to consolidate KIS administrative programs and facilities on the KIS campus under a new modern facility with innovative design, and 2) to free up those existing spaces for other educational program uses.

The Proposed Action is needed as it would provide KIS faculty and staff with greater space, facilities, and administrative resources for the efficient operation of KIS from a central location and would also provide students and teachers additional space for their academic programs. The modular design of the building has been aspired to be a model for the future designs of DOE administration buildings as it would considerably reduce construction costs and shorten the construction timeframe for this project.

1.4 REGIONAL SETTING AND PROJECT SITE

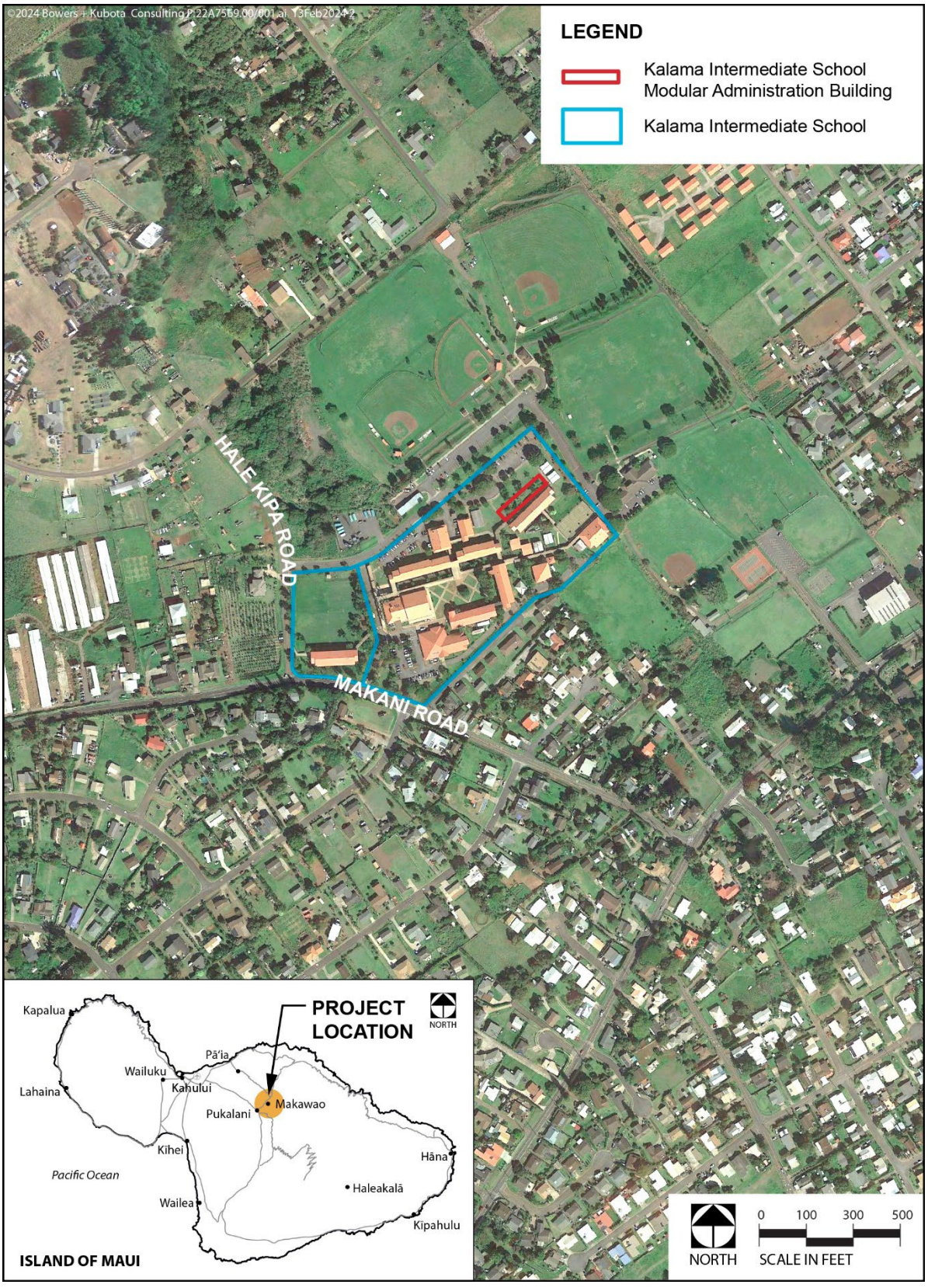
KIS is located at 120 Makani Road in the Makawao district on the Island of Maui. This property is identified as Tax Map Key (TMK): (2) 2-4-032:109) on an approximately 10.4-acre parcel owned by the State of Hawai'i. KIS is bounded by Eddie Tam Memorial Park to the north, Hale Kipa Road to the west, residential homes to the east, and Makani Road to the south as shown in Figure 1.1. Shortly beyond the KIS campus are both urban and rural residential Upcountry Maui neighborhoods, community parks, and agricultural lands. KIS is within the *moku* (district) of Hāmākuapoko in the *ahupua'a* (traditional land division) of Makawao, and within the State's Urban Land Use District. KIS is in Maui County's P-1 Public/Quasi-Public zoning district.

The Project site (also referred to as Project Area) consists of approximately 0.55-acres (24,075 square feet) for the new building and accessory pathways. The site is situated within the northeast portion of the school as shown in Figure 1.1, adjacent to the existing Building O and parking lot. This site is situated entirely within an open grassed lawn area of the KIS campus that is currently maintained and contains a few trees and a few picnic tables. See Exhibit 1-1 for photos of the project site. The terrain of the site appears to have been previously graded during the construction of the school campus in the 1980s.

Photo A: West View of Project site Photo B: South View of Project site

Exhibit 1-1. Photos of the Project site within Kalama Intermediate School

Figure 1.1: Project Location Map



The primary vehicular access to the KIS campus is from Makani Road. This road provides access to the school's main entrance and parking lot. Enoka Place is a short County-owned road routed eastbound from its intersection with Hale Kipa Road. This road provides access to school parking lots along the campus northern boundary. A school driveway from their parking lot off of Makani Road connects to Enoka Place providing another vehicular access location. Enoka Place also provides access to parking lots serving the County's Eddie Tam Memorial Center Park and ballfields. The new administration project site is located adjacent to the school parking lot at the end of Enoka Place.

1.5 DESCRIPTION OF THE PROPOSED ACTION

The DOE is proposing to construct a new Modular Administration Building on the Samuel Enoka Kalama Intermediate School campus. The proposed facility would be a two-story building that will contain several staff offices, conference rooms, a health room, a staff lounge, a lobby, and a general school office space. The proposed Modular Administration Building will be occupied by existing KIS faculty and staff allowing for the consolidation of operations that are now spread out across several other classroom buildings. See Figure 1.2 for the Project Site Plan that includes accessory improvements and area of disturbance. Figure 1.3 includes a preliminary floor plan for this new administration building.

The project will also involve constructing connecting concrete walkways, landscaping, and providing extensions of existing electrical, communications, water, sewer, and drainage utilities within the school to service the new building. Other features of the new administration building include an elevator unit, stairways, restrooms, and the building's storage, telecommunication, electrical, and mechanical utility rooms. The project will not include constructing any new driveways or roads. Overall, the proposed building dimensions would be about 43 feet wide, 181 feet long and encompass approximately 15,000-square feet or 0.4-acres of the site. The building would meet the 40-foot height limit applicable for this school property and Figure 1.4 shows section views of this building.

Area of Disturbance

The total area of ground disturbance would be about 24,075 square feet or 0.55-acres. Ground disturbance activities would include grubbing and minor excavation to remove trees and vegetation, minor grading to level the area for the building foundation and paths, construction of the building and paths, and installation of underground utilities and infrastructure. The extent of grading and ground disturbance is delineated as the Proposed Project Area shown in Figure 1.2.

Demolition

To prepare the site for construction, demolition plans include the removal of about six existing large trees, four bushes, two picnic tables, and portions of concrete walkways. Three other existing large trees would be protected and remain in place. An erosion and sediment control plan would be in place before grading of the site.

Figure 1.2: Project Site Plan

Figure 1.3: Preliminary Administration Building Floor Plan

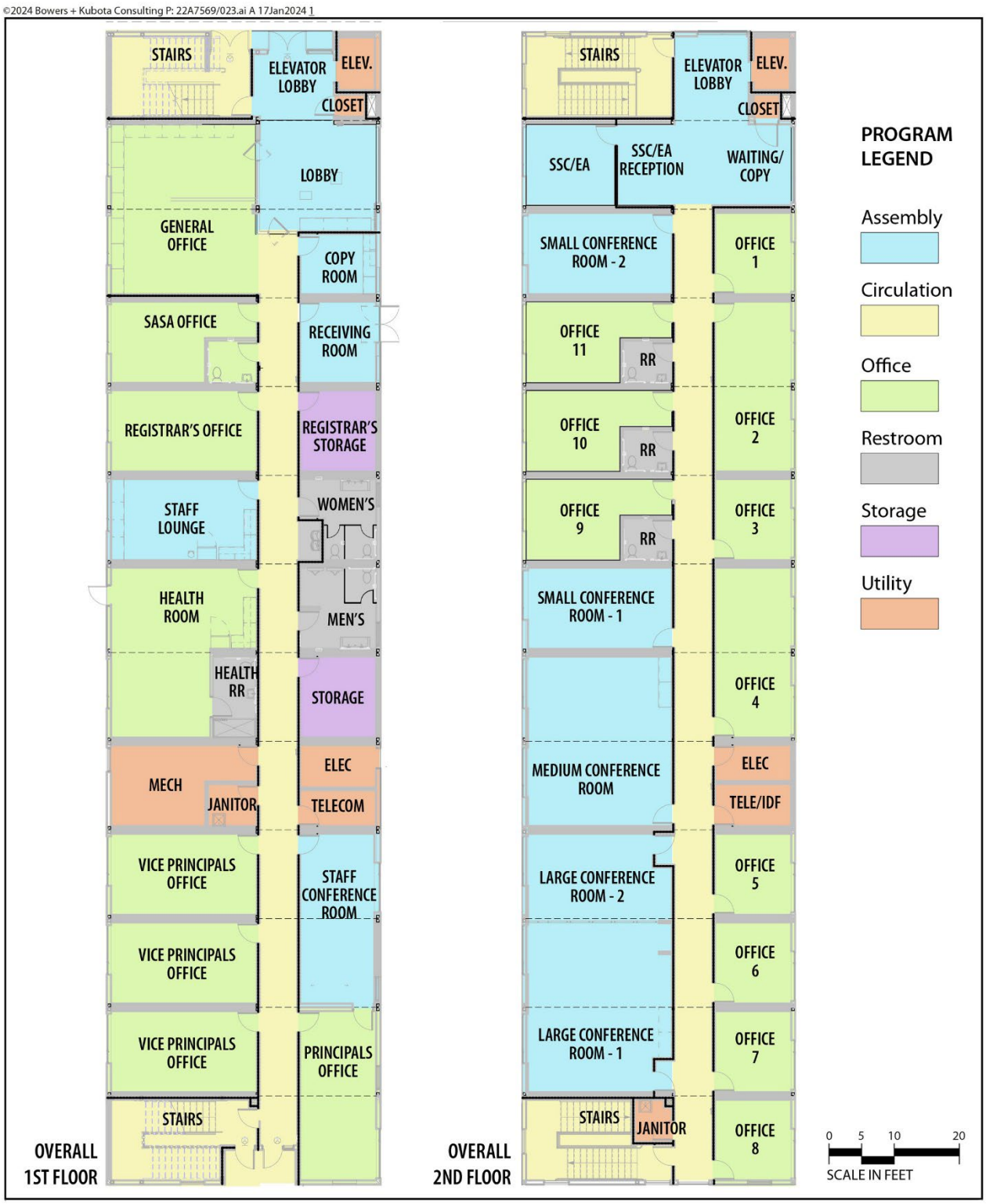
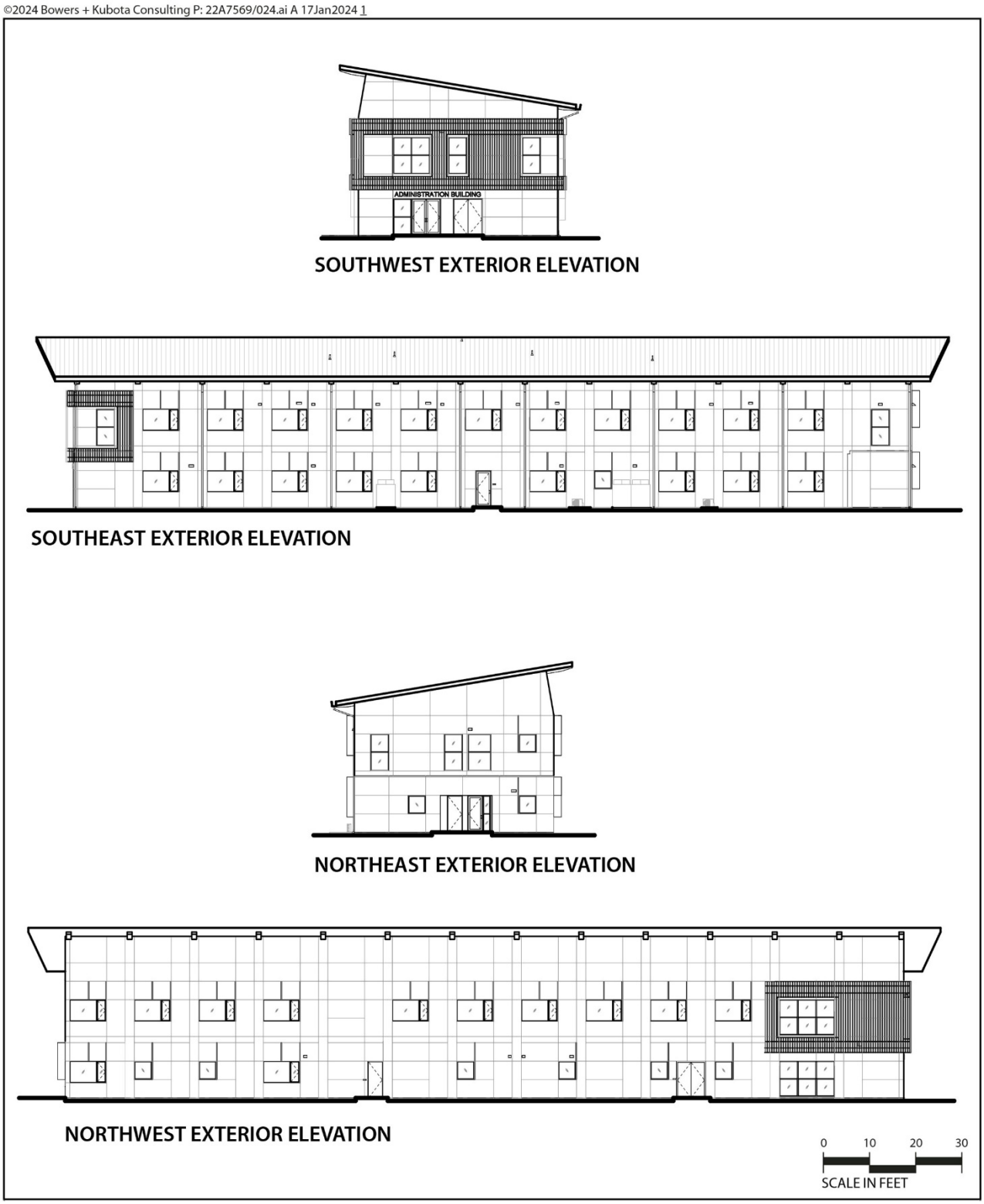


Figure 1.4: Typical Sections View



1.6 PRELIMINARY PROJECT COST AND TIMELINE

The proposed project is estimated to cost $10.9 million. Projected costs include site earthwork, construction, labor, and the installation of utilities.

Construction for the project is expected to be completed in about six months beginning in the Fall of 2024 and be operational for use in early to mid-2025.

1.7 APPROVALS AND PERMITS

This section provides a table listing the permits and approvals (state and county) required for the project.

Table 1.1: REQUIRED APPROVALS AND PERMITS

APPROVAL OR PERMIT	APPROVING AGENCY
HRS CHAPTER 6E	State of Hawai'i: Department of Land and Natural Resources, Historic Preservation Division
COMMUNITY NOISE PERMIT	State of Hawai'i: Department of Health, Indoor and Radiological Health Branch
GRUBBING AND GRADING PERMIT	County of Maui: Department of Public Works
BUILDING PERMIT	County of Maui: Planning Department
WATER USE PERMIT	County of Maui: Department of Water Supply
SEWAGE CONNECTION	County of Maui: Department of Environmental Management

2.0 ALTERNATIVES CONSIDERED

As a requirement of HAR §11-200.1-18 (2019), this chapter identifies and considers alternatives to achieve the Purpose and Need of the Proposed Action. These alternatives are described in this section and include a No-Action Alternative.

2.1 ALTERNATIVE 1: NO-ACTION

Under the No-Action Alternative, the Project site's existing conditions would remain the same as the Proposed Action would not take place. For the time being, all the estimated 0.55-acre area designated for the Proposed Action would remain an undeveloped open space on the KIS campus.

In addition, KIS's existing administration program would remain space-limited with facilities and offices spread across various buildings and rooms throughout the KIS campus. As a result, educational programmatic spaces would also remain unchanged.

The No-Action Alternative would fail to meet the purpose and need of the Proposed Action which is to provide greater space, facilities, and administrative resources for the efficient operation of KIS in one location while also freeing up existing spaces for other educational programmatic uses. Because of its failure to meet the Project's purpose and need the No-Action Alternative was determined to not be a feasible alternative and was, therefore, eliminated from further consideration.

2.2 ALTERNATIVE 2: IDENTIFY OTHER LOCATIONS ON CAMPUS

Under Alternative 2, the DOE identified other locations within the KIS campus to construct the new administration building. Other locations would need to be large enough to accommodate the 15,000-square-foot building foundation along with connecting paths for access.

Other large, open, and undeveloped areas identified included the school's playing field and the central Quad area. However, these areas are important and highly utilized areas for students for outdoor activities and as gathering places. Eliminating the playing field or central Quad area would have a significant impact on students and activities.

Other areas would involve having to demolish other existing school buildings already used for school programs. This would reduce classroom space and other facilities used for programs along with being costly, disruptive to school activities, and would have a larger construction impact on the school. The net benefit to the school would be reduced because of the elimination of existing classrooms and would not adequately meet the needs of the Proposed Action. Therefore, the project's proposed location for the new administration building would better achieve the purpose and need since it is only open, undeveloped, and underutilized area large enough for the 15,000-square-feet space needed. This alternative was therefore determined to not be a feasible alternative and was eliminated from further consideration.

3.0 AFFECTED ENVIRONMENT, LIKELY IMPACTS, AND MINIMIZATION MEASURES

This chapter provides a description of the affected environment, including the suitable and adequate regional, location, and site maps, and identifies and assessment the likely environmental impacts associated with the project, and identifies minimization measures to address those impacts, as necessary.

3.1 GEOLOGY, TOPOGRAPHY, AND SOILS

3.1.1 GEOLOGY

Makawao is located at an elevation of over 1,000-feet above mean sea level on Maui along the northern slope of Haleakalā Volcano. According to the U.S. Geological Survey (USGS), Geologic Map of the State of Hawai'i – Island of Maui (Sheet 4) and as seen in Figure 3.1, most of East Maui including the underlying geology of the Project Area is geologically made up of Kula Volcanic rock deposits (USGS, 2021). Kula Volcanics formed from the lava flows of Haleakalā Volcano from about 950,000 to 150,000 years ago (USGS, 2023a). No significant geological formations are known to be present on or beneath the project site.

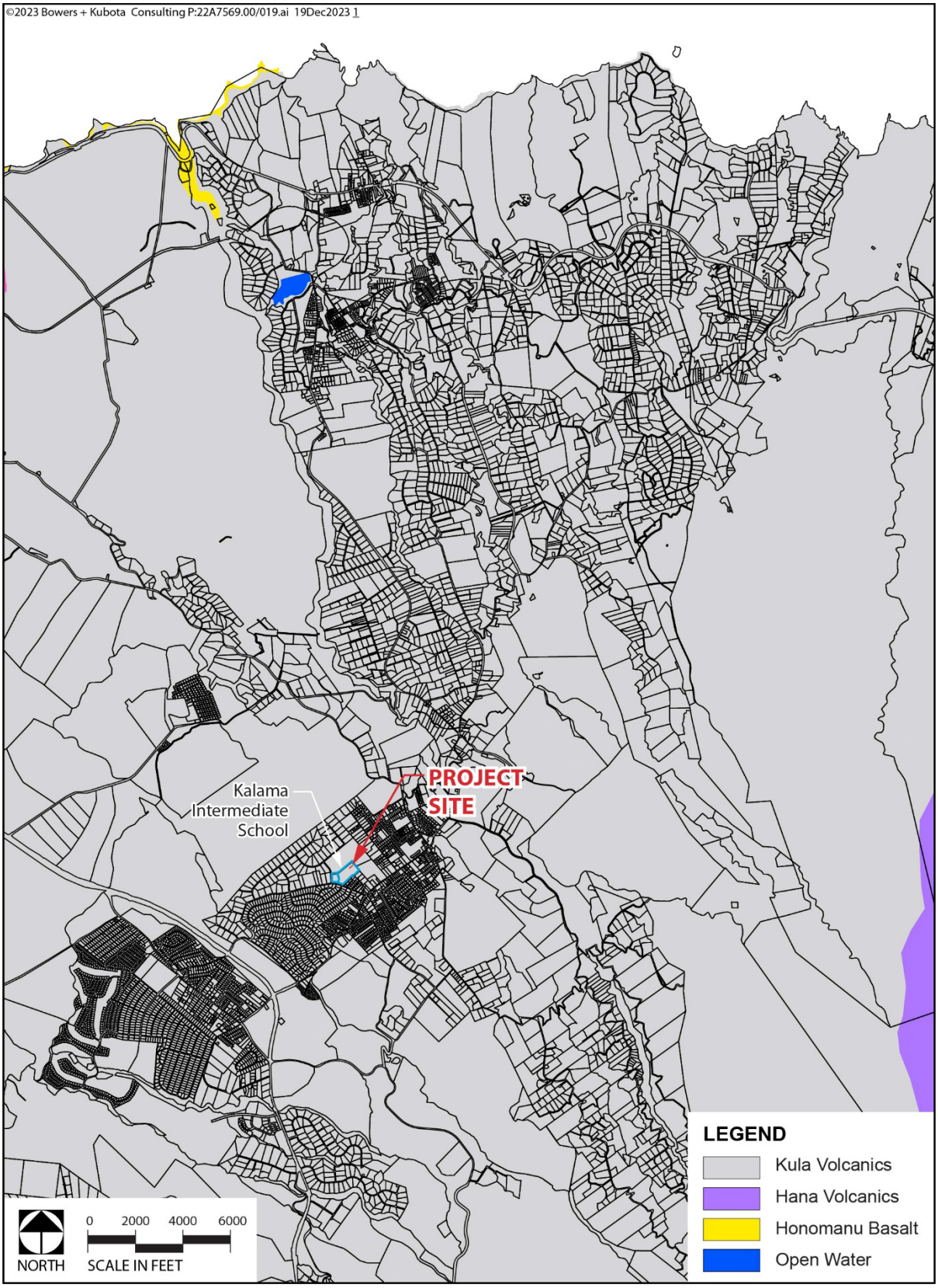
Project Effects

The project would not have a significant long-term or short-term impact on the existing geography associated with the project site or surrounding KIS property. The site has no unique or large geological features and is generally flat. Construction of the new administration building would involve some site minor grading that would not change the existing geography of this site and area. No major cut or fill activities would be required that would significantly alter the underlying geography. Some material may need to be imported to the site to prepare the building's foundation subject to geotechnical design recommendations. However, this would have minimal effect on the geology of the area.

3.1.2 TOPOGRAPHY

The topography associated with project site and immediate area is fairly level and varies from about 1,550 to 1,553 feet above mean sea level (AMSL) within the school property. The site thus has a gentle slope of about 1.0 percent or less since it is an undeveloped area located between the school's parking lot and other existing buildings. The site drains in an eastbound direction toward an existing drainage inlet near two portable buildings.

Figure 3.1: Geology



Project Effects

Proposed improvements would have minimal short- or long-term impact on the existing topography of this site. The topography of the project site is relatively level and this condition would not significantly change with construction of the building's foundation. Some minor grading activities would be required to level areas used for the building's foundation, connecting pathway improvements, and to address drainage requirements. Preliminary plans indicate site drainage would continue to be directed eastbound to the existing drainage inlet by the two portables, However, these improvements would not require a significant cut or fill of areas and thus result in minimal change to the existing topography of the site and surrounding area. Design plans would be prepared which would be reviewed by agencies for compliance with applicable regulations, agency requirements, and obtaining ministerial permits (e.g., grading permit) that would further support minimizing significant impacts from occurring.

3.1.3 SOILS

As shown in Figure 3.2, the soils associated with the Project site are mapped as two types of Haliimaile soils: HgB and HhC. The HgB soil type is a Haliimaile silty clay loam characterized as having between a 3% to 7% slope, moderately low to moderately high drainage ability (Ksat: 0.06 to 0.60 in/hr) and having low to no tendency to flood or pond (USDA, 2019). The majority of the KIS campus is within this soil type and only a small area of the western end of the project site is within this soil type. The HhC soil type is a Haliimaile silty clay characterized as having between 7% to 15% slopes, moderately low to moderately high (Ksat: 0.06 to 0.60 in/hr) and having low to no tendency to flood or pond. Although this soil type tends to have higher slopes, development of the KIS property has altered existing topographic conditions by leveling site conditions.

The Project site is not located within an area designated as Agricultural Lands of Importance to the State of Hawaii (ALISH) because it is within the State's Urban District land use designation. According to the ALISH Map as seen in Figure 3.3, the soil at the project site is not considered prime farmland material (USDA, 2019). The site is known to have been altered and graded in the past due to previous use of this area for plantation fields and the later construction of the school in the 1980s.

Project Effects

The project would have minimal short- or long-term impact on existing soils associated with this site. No major cut or fill activities would be required that would significantly alter soil conditions or require importing or exporting significant quantities of material. Some material may need to be imported to the site to prepare the foundation for the building subject to geotechnical design recommendations. However, this would have minimal effect on existing soil conditions. Development of KIS along with other surrounding developments may have likely imported material to use for building foundations, roadways, etc. Operations occurring within the new administration building should not have any long-term impact on soil conditions.

Figure 3.2: Soils

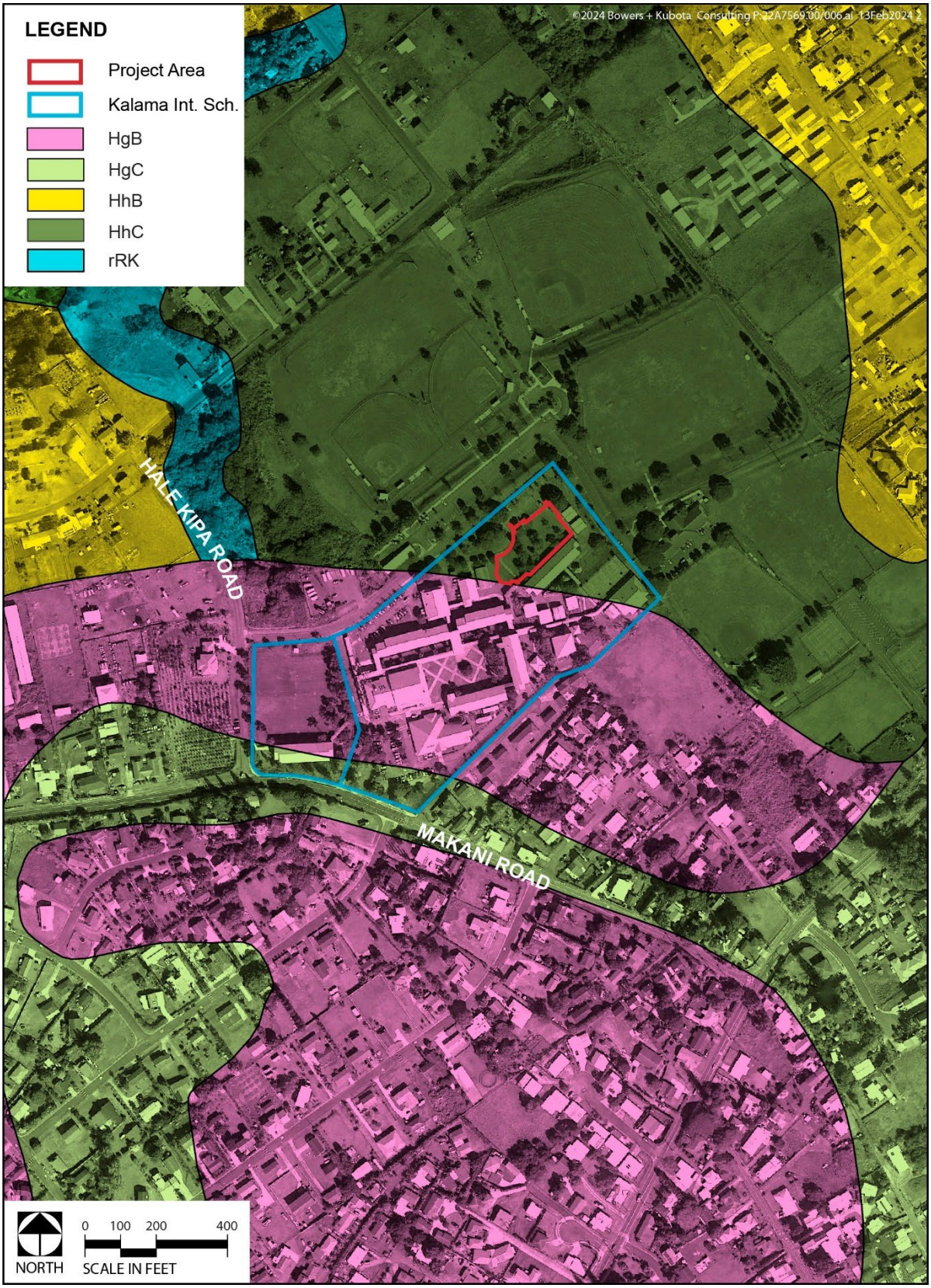


Figure 3.3: Agricultural Lands of Importance

Effects on soils from construction activities would be limited to temporary ground disturbance activities such as minor grading or site leveling of the already fairly level site. Construction work associated with project improvements would inevitably involve some temporary land-disturbing activities that could cause minor short-term effects and nuisances. Such effects may be associated with some soil erosion during periods of heavy rainfall or high winds.

Various minimization measures using standard construction best management practices (BMPs) will be incorporated into the project's design plans to minimize potential discharge of pollutants from stormwater before and after construction. This may include developing an Erosion and Sediment Control Plan to prevent or reduce pollutants like sediment from construction sites to entering waterbodies. BMP measures would be instituted following site-specific assessments during the project's design phase, and could incorporate structural and non-structural BMPs, as deemed appropriate. BMPs would be installed before construction and maintained throughout the construction period. Some BMP measures may include, but not be limited to:

- Installation of a perimeter construction fence.
- Installation of Silt Fence or Filter Socks adjacent to and down slope from disturbed areas.
- Installation of dust screens around disturbed areas.
- Utilization of methods to ensure mud, dirt, or debris would be kept onsite and minimized on roadways.
- Use of temporary sprinklers in non-active construction areas and stationing water trucks nearby during construction to provide sprinkling in active areas.
- Installing stabilized construction entrances, tire wash areas, and concrete washout areas.
- Cleaning affected pavements and roads after construction activities.
- Cleaning construction-related equipment of pollutants before and after construction.
- Collecting and placing building debris, as it is created, into roll-off bins or trucks for hauling and removal from the site.

A National Pollutant Discharge Elimination System (NPDES) General Permit for construction stormwater discharge would not be required because construction activities would not disturb at least one-acre of land. The project area is only about 0.55 acres. The Applicant would obtain all required permits and comply with permit conditions to minimize construction impacts on soils which includes the following:

- *Grubbing and Grading Permit* would be obtained from the County of Maui Department of Public Works for the grubbing of vegetation and removal of trees, and excavation or fill of soil, gravel, or rock.

3.2 CLIMATE AND CLIMATE CHANGE

Hawaii's tropical location results in uniform weather conditions throughout the year. Climatic conditions on Maui are characterized by mild and consistent year-round temperatures, moderate humidity, and steady northeast trade winds. Variations in Maui's weather is attributed to regional topography and climatic conditions. For example, areas of higher elevation on Maui such as at Haleakalā and West Maui mountains receive the highest rainfall of about 404 inches of rainfall a year, compared to Central Maui, that has a relatively low and flat topography, with about 16 inches of rain a year (UHM, 2014).

Makawao, like other high elevation areas on the slopes of Haleakalā, has a mesic or moderately moist climate compared to other areas of Maui at lower elevations, as seen in Figure 3.4. The mean annual air temperature in Makawao is 68.9 degrees Fahrenheit with mean annual precipitation averaging 52 inches of rain (UHM, 2014).

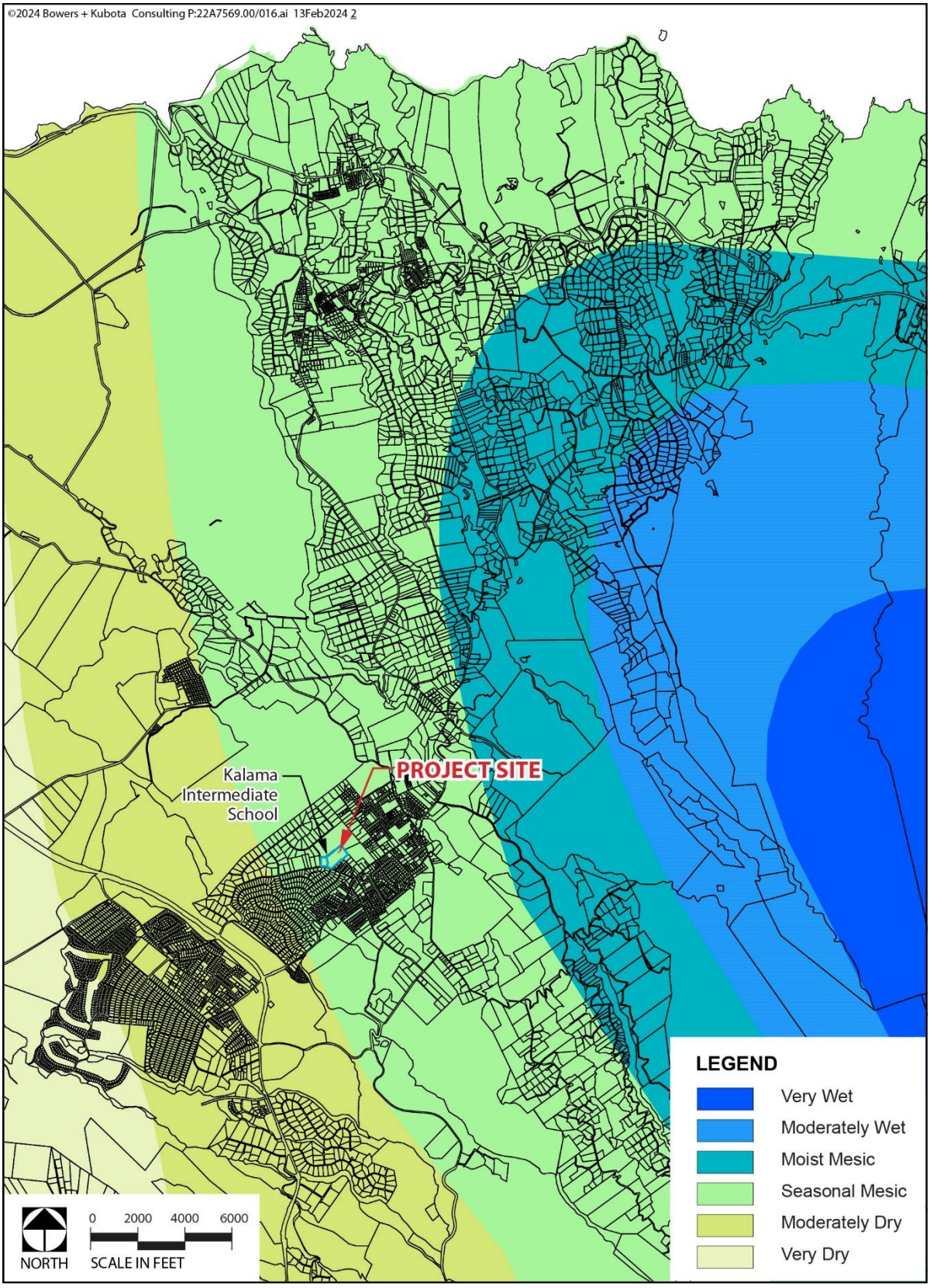
3.2.1 CLIMATE CHANGE

Climate change is a long-term alteration in an area's temperature and typical weather patterns such as local temperatures, average rainfall, humidity, and wind patterns. Scientific data has shown that over the past century, the earth's climate has been increasingly warming due to rising levels of greenhouse gas emissions (GHG) generated from human activities. These changes in climate are already impacting Hawai'i from rising sea levels, changing rainfall and wind patterns, and more frequent extreme weather events. These changes pose a threat to Hawai'i's food security, water supply, economy, cultural heritage, and overall habitability (SOH, 2023).

For instance, over the past 30 years, rainfall has declined significantly, and the islands have experienced more extreme and longer drought conditions. In addition, the number of consecutive days of extreme heavy rainfall has been increasing resulting in increased runoff, erosion, and flooding events (SOH, 2023). Simultaneously, temperatures in Hawaii have been rising and average temperatures in Hawai'i could increase by as much as 2.4 to 7.2 degrees Fahrenheit (F) by the end of the century threatening local energy and water infrastructures, risk of wildfires, and native ecosystems (SOH, 2023).

In 2017, the State of Hawai'i enacted Act 32 which reaffirmed the State's commitment to the goals of the 2016 Paris Agreement and established the Climate Change Commission, which is a multi-jurisdictional group of various Counties and government departments to develop strategies and recommendations for climate change adaptation and mitigation. Two major priorities of the Commission are the reduction of GHG emissions from ground transportation and adaptation to sea level rise. In addition, in 2018, the State established ambitious goals to become carbon neutral by 2045.

Figure 3.4: Moisture Zones



Project Effects from Climate Change

During construction, diesel and gasoline powered construction vehicles or equipment would contribute to short-term minor GHG emissions that contribute to climate change. However, the temporary duration and levels of emissions generated in relation to other GHG emissions occurring statewide would just have negligible or de minimus affect over a short period. During the construction period, contractors would be required to implement emission control methods on their construction equipment as part of best management practices that help minimize GHG emissions.

In the long-term, the operation of the new administration building would similarly have negligible, or de minimus effect on GHG emissions. Because the proposed building will be used by existing KIS faculty and staff, it is not expected to generate additional traffic at the school.

Recommendations established by the Climate Change Commission to combat ground transportation emissions included carbon pricing, electrification of ground transportation including State vehicles, and providing infrastructure to encourage various multi-modal transportation options. The school site is already along major bus routes and bike paths. Additionally, the State has already begun the electrification of some State vehicles. In time, it is anticipated that most State and County vehicles including those used by DOE would be converted as well in order to reach the State's zero emissions goals.

3.2.2 SEA LEVEL RISE

The 2022 Update of the Hawai‘i Sea Level Rise Vulnerability and Adaptation Report is a report by the State of Hawai‘i that aimed to assess Hawai‘i's exposure to climate change induced sea level rise and provide updated recommendations to reduce the State's vulnerabilities to sea level rise. Current best available science has pointed to 3 to 4 feet of sea level rise by 2100 as a mid-range scenario for Hawai‘i (HSCC, 2022). An increase in sea level rise to Hawai‘i means damage or loss of critical infrastructures, properties, natural resources, ecosystems, and land use in many low-lying coastal areas.

The Sea Level Rise Exposure Area (SLR-XA), a combined projected footprint that maps three chronic flooding hazards with a 3.2-feet sea level rise scenario: passive flooding, annual high-wave flooding, and coastal erosion, is a tool used extensively by state and county agencies for adaptation planning purposes (HSCC, 2022). The entire KIS property containing the project site is not anywhere near areas that may be affected by the 3.2-feet SLR-XA being at an elevation of about 1,550 feet AMSL. Such exposure areas are predominantly located along the shoreline at Kahului Harbor and would increase water levels at the Kanaha Pond Wildlife Sanctuary.

Project Effects from Sea Level Rise

The new administration building should not experience any short- or long-term impact from sea level rise or contribute to issues associated with projected sea level rise. The project site is situated well inland away from the shoreline where most sea level rise effects occur. Therefore, project improvements and operations occurring would not be affected.

3.3 HYDROLOGY

3.3.1 SURFACE WATERS

The town of Makawao is situated between two large watersheds along the northern slopes of Haleakalā. KIS and the project site are located completely within the Māliko Watershed as shown in Figure 3.5. The Māliko Watershed is approximately 27.1 square-miles encompassing half of Makawao and stretching *mauka* (inland "towards the mountain") from the peak of Haleakalā towards the ocean to town of Kūʻau. The Māliko Watershed is not classified as a designated water management area by the Department of Land and Natural Resources Commission on Water Resource Management (DLNR-CWRM). Water Management Areas are special regulatory areas that require water source owners to obtain water use permits before the withdrawal of water for various uses.

There is one non-perennial stream (Paholoi Stream) stemming from the adjacent Eddie Tam Memorial Park and flows north (makai) and away from the project site as shown on Figure 3.5. There are no perennial streams or wetlands in the vicinity of the site. Additionally, the project site is located more than six miles inland from the nearest coastal water.

Project Effects on Surface Waters

Construction of improvements would not involve any work within or across existing streams or major drainageways because there are none associated with the project site. Improvements would primarily consist of site-related work involving minor grading and leveling of areas and improving surfaces for pathways, foundation and building construction, etc. Site work would include addressing drainage conditions associated with the project from increased impervious surfaces created. This work should have minimal effect on existing drainage patterns in the area since no major site improvements are necessary. Drainage swales provided would direct stormwater runoff to new drainage inlets provided around the new building. The project should thus have no long-term impact on surface water resources such as streams or wetlands.

3.3.2 GROUNDWATER

Groundwater is one of the most important natural resources in Hawaiʻi as it is the main source of freshwater statewide. Located beneath the water table within volcanic rock aquifers, groundwater provides about 99% of Hawaiʻi's domestic water use and about 50% of all freshwater used in the state (USGS, 2016). Much of this groundwater comes from rainfall, fog drip, and irrigation water that isn't lost to runoff or evapotranspiration.

As shown in Figure 3.6, the Project site is located within the Makawao Aquifer System which is one of four aquifers that make up Maui's Central Aquifer Sector. The Makawao Aquifer System is a land-locked aquifer that encompasses the towns of Makawao, Pukalani, and Pulehu town. This aquifer system is not classified by DLNR-CWRM as a Groundwater Management Area, therefore, water resource owners in this area would not be required to

Figure 3.5: Watersheds and Streams

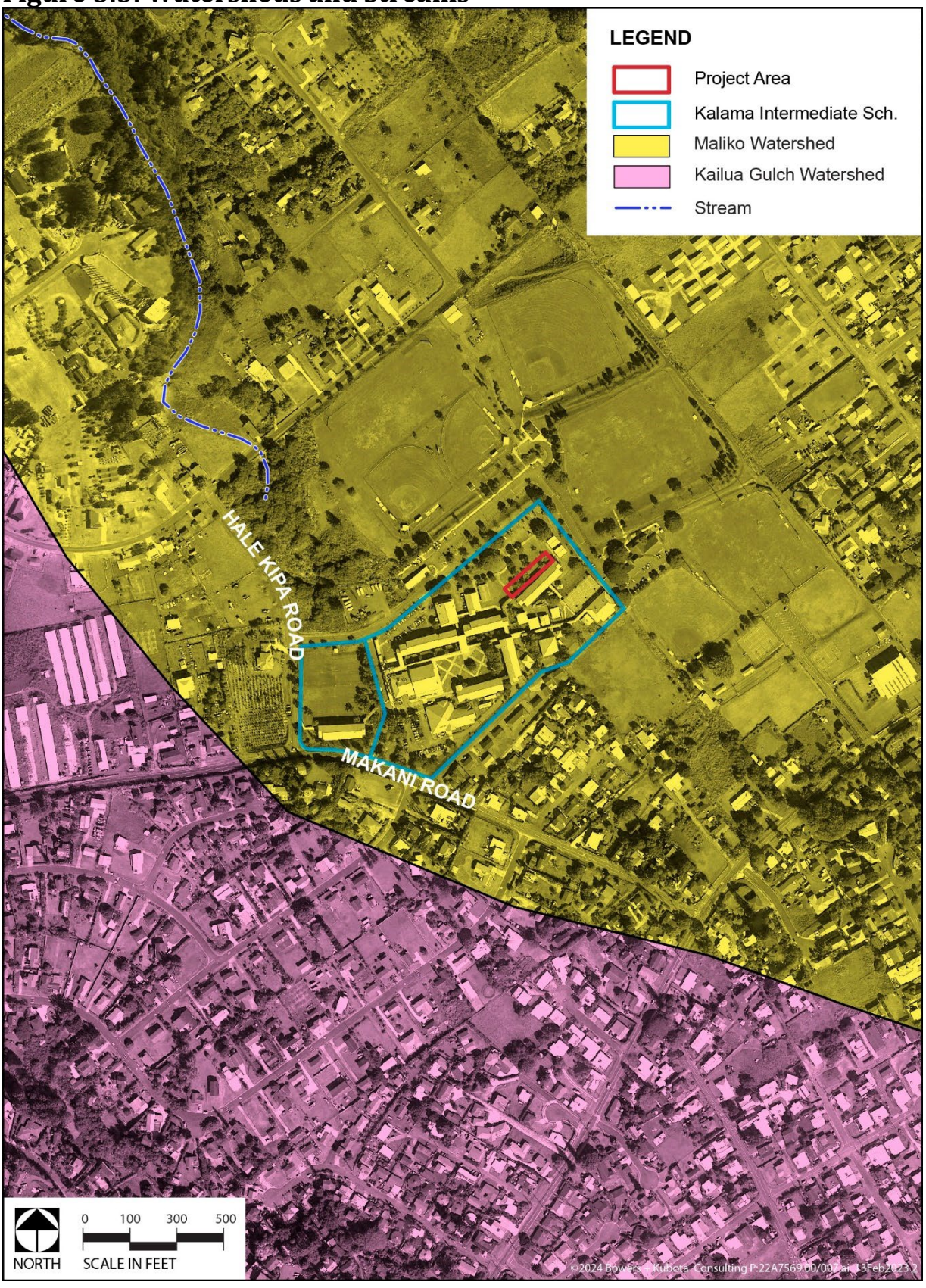
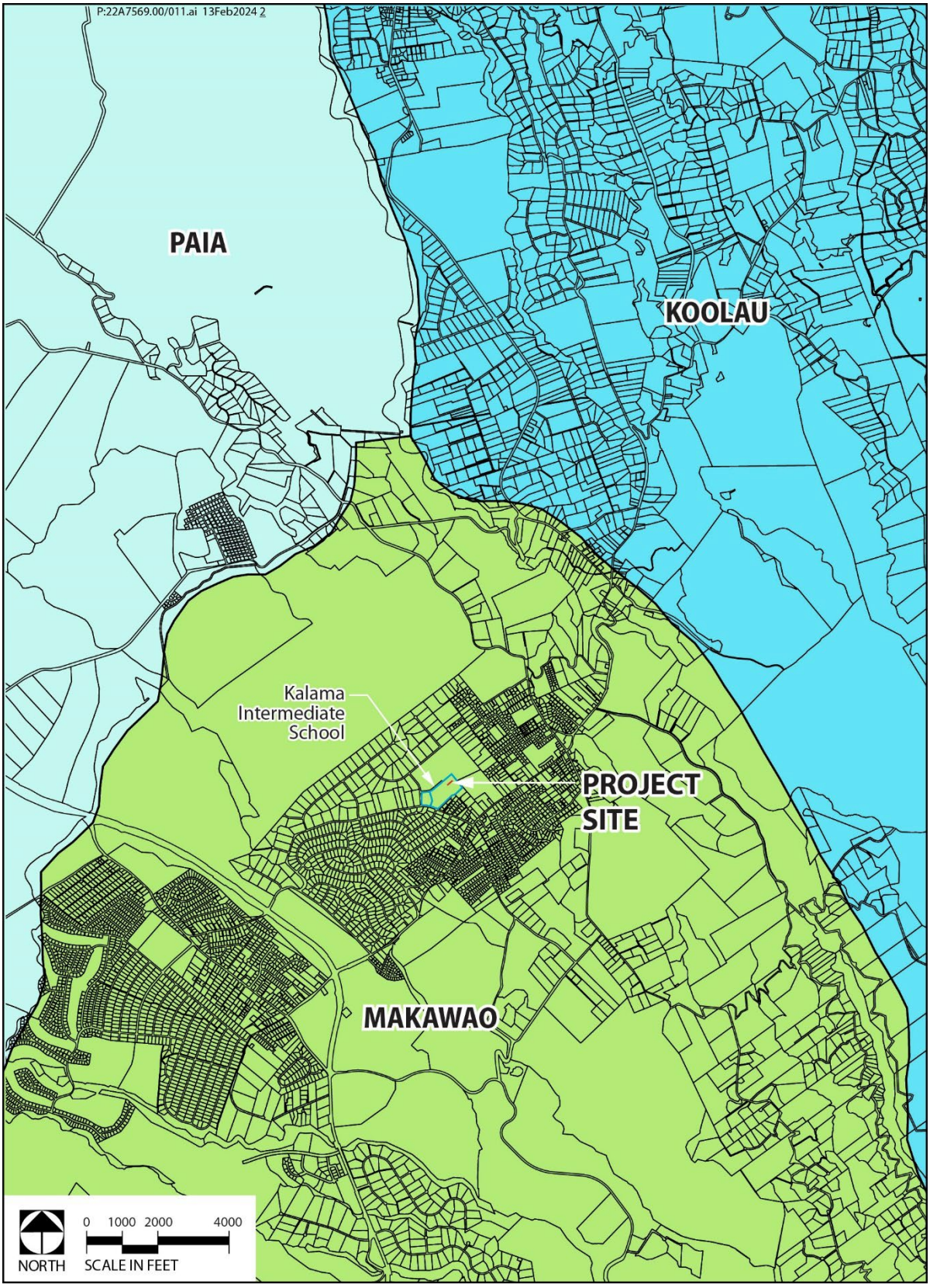


Figure 3.6: Aquifers



obtain water use permits to withdraw groundwater. According to the County of Maui Department of Water Supply (DWS), the Makawao Aquifer System has a groundwater sustainable yield (SY) of 7 million gallons per day (MGD) which is the maximum rate that groundwater can be withdrawn without impairing the water source (DWS, 2016).

DWS serves five sections within the County: Central Maui, East Maui, Molokaʻi, Upcountry Maui, and West Maui. The KIS campus is served by DWS's Upcountry Maui System, Maui's second largest water system, which provides 9,952 meters of water service from Pāʻia-Haʻikū towards Kēōkea town. The Upcountry Maui System receives 15% of its water from groundwater and 85% from surface waters (DWS, 2011).

To safeguard groundwater sources and Maui's drinking water supply from contamination, DWS has delineated Wellhead Protection Overlay Zones that would cover Wellhead Protection Areas or the surface to subsurface areas surrounding a water well through which contaminants can move toward and reach important water wells (DWS, 2023). The Wellhead Protection Overlay Zones are divided into three zones based on the time it takes a drop of water to travel to the drinking water well. Zone A are areas nearest the well with the most potential to contribute to groundwater contamination. Zone B areas take 2 years or less and in Zone C it takes up to 10 years of travel time for water or contaminants to reach the water supply. As shown in Figure 3.7 (Wellhead Zone), the Kokomo-Piʻiholi-ʻAwalau Wellhead Protection Overlay District is the closest to the project site, however, this does not overlay the town of Makawao and the project site.

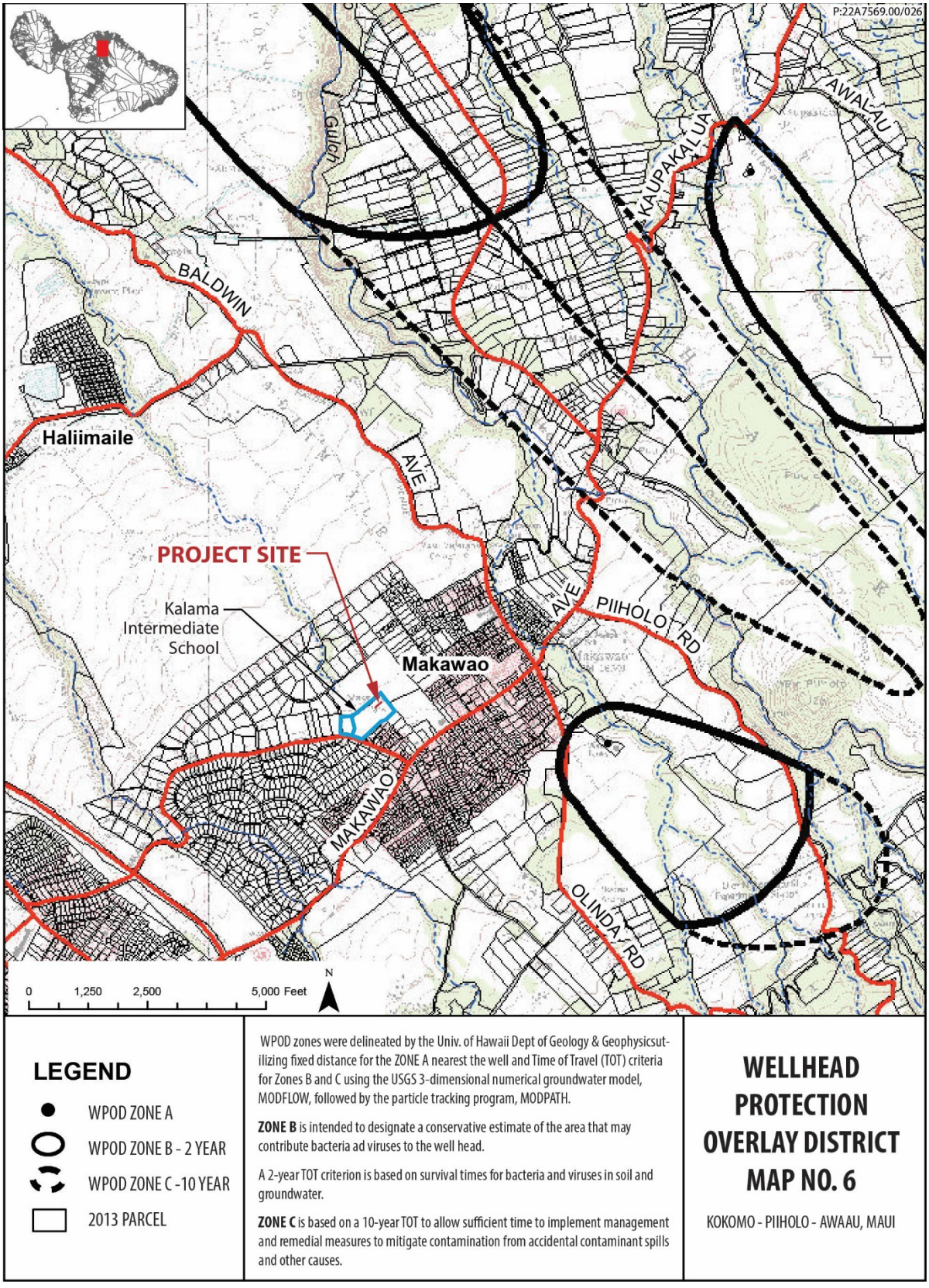
As described in Section 3.2 (Climate and Climate Change), climate change impacts such as rising sea levels, rising temperatures, and changes in rainfall patterns would pose a threat to Hawaii's natural resources such as freshwater supply. Currently, the main factors threatening groundwater availability in Hawaiʻi are saltwater intrusion, the reduction of discharge to streams and the ocean, and lowering of water levels from water usage (USGS, 2016). Because the Makawao Aquifer is inland and land-locked, saltwater intrusion would not be an issue, although rising temperatures and changes in rainfall patterns would increase the frequency of extended droughts and water contamination which may all negatively affect the water supply in the future (SOH, 2023).

Project Effects on Groundwater

Short-term construction related activities should not have any effect on the underlying aquifer system. Site grading activities would be minor given the site's already fairly level topography and thus not involve any major cutting into a hillside or topographic features that may affect groundwater infiltration. Water used for construction activities would similarly be minimal and short-term not negatively impacting the underlying aquifer's sustainable yield.

The new administration building constructed would result in a small increase in the extent of impervious areas within the currently undeveloped site given the relatively small site for improvements. Actual areas improved would be subject to the design phase in finalizing site and building improvements for construction. This small increase in impervious areas should have minimal impact on the underlying aquifer in terms of groundwater recharge.

Figure 3.7: Wellhead Protection Zones



Increased potable water demand generated from the project should have minimal impact on groundwater resources because the new administration building would accommodate existing faculty and administrative staff. Therefore, potable water demand with the project should generally remain the same (restrooms, etc.). Restrooms included within the new building are expected to connect to the school's existing sewer system for treatment and disposal and would therefore not discharge treated sewage into the site's underlying aquifer system.

3.4 AIR QUALITY

The Clean Air Act of the 1970s with subsequent Amendments in the 1990s, is the U.S. federal air quality law intended to reduce and control air pollution nationwide. The Clean Air Act is administered by the U.S. Environmental Protection Agency (EPA) and in coordination with state and local governments established both National and State Ambient Air Quality Standards (AAQS) to protect both public health and welfare from the harmful effects of "criteria" pollutants (DOH, 2015). These criteria pollutants include carbon monoxide (CO), lead (Pb), nitrogen dioxide (NO_2), particulate matter (PM_{10}), particulate matter ($PM_{2.5}$), and ozone, sulfur dioxide (SO_2). The State also set a standard for hydrogen sulfide (H_2S). The State of Hawai'i, Department of Health (DOH), Clean Air Branch is responsible for air pollution control in Hawai'i through permitting, monitoring air quality, and enforcing federal and state standards.

U.S. Air Quality Index (AQI), the EPA's index for reporting air quality, is provided by the DOH Environmental Health Division. According to information provided, air quality levels on Maui as a whole are good. An air quality monitoring station in Kahului for particulate matter ($PM_{2.5}$) was rated as "good" meaning air quality is satisfactory and air pollution poses little or no risk to public health (EPA, 2023). Another station in Kīhei monitoring $PM_{2.5}$ was similarly rated as good. With these being more populated areas on Maui with vehicle traffic, etc., the Makawao area can be reasonably estimated to similarly have good air quality especially being less populated and congested.

The project site is surrounded mainly by residential uses and active agricultural lands. The largest sources of air pollution surrounding the project area are most likely associated with agricultural operations and motor vehicles using the roadway network near the project area. Emissions from these sources consist primarily of particulate matter, carbon monoxide, sulfur dioxide, and nitrogen oxides.

In addition to the AAQS, the DOH regulates fugitive dust. HAR Section 11-60.1-33, Fugitive Dust, states that no person shall cause or permit visible fugitive dust to become airborne without taking reasonable precautions, and no person shall cause or permit the discharge of visible fugitive dust beyond the property lot line on which the fugitive dust originates (DOH, 2019). Fugitive dust particles from activities such as soil moving, earthwork, and heavy construction have the potential to be lifted into the air and pollute air and surface waters posing a public health risk. This rule applies to construction projects and would therefore be applicable to the project.

Project Effects

Soms short-term construction-related impacts to air quality are anticipated with implementation of the project. There are two potential types of air pollution emissions that could result in direct short-term air quality impacts during the construction period:

(1) Fugitive dust from earth-moving activities, crushing and screening activities, unregulated stockpiling of soil material, and construction vehicle movements.

(2) Diesel and/or gasoline-powered emissions from construction vehicles and equipment.

Indirectly, there could also be short-term air quality impacts from the addition of construction vehicular traffic, from slow-moving construction equipment traveling to and from the site, and from a temporary increase in local traffic caused by commuting construction workers. However, because levels of criteria pollutants on Maui are below National and State AAQS and because trade winds rapidly carry pollutants offshore, slight increases in the levels of criteria pollutants on site are not expected to be significant, and not anticipated to exceed AAQS.

BMPs would be described in construction plans and specifications to minimize the discharge of air pollutants before and after construction. BMPs for fugitive dust and engine emissions would be installed before construction and maintained throughout the construction period. Some BMPs which are consistent with measures recommended by DOH in the Fugitive Dust Fact Sheet (DOH, 2019), may include, but not be limited to:

- Designing, developing, and implementing a dust control plan.
- Applying water, dust suppressants, or suitable compounds on roads, material stockpiles, and on construction areas.
- Establish and monitor speed limits for onsite vehicles.
- Cover all moving, open-bodied trucks transporting soil or dusty material.
- Install dust screens or wind barriers around the construction site.
- Stabilize and cover stockpile materials.
- Limiting areas to be disturbed at any given time.
- Clean nearby pavements and paved roads affected by construction.
- Providing a buffer zone between the construction site and residential areas.
- Moving heavy construction equipment during periods of lower traffic volume.
- Adjusting schedules of commuting construction workers to avoid peak hours in the Project vicinity.
- Implementing emission control methods on construction equipment.

The project is not expected to result in any long-term impacts on air quality from vehicle emissions occurring at KIS or nearby locations that attract large volumes of motor vehicle traffic. The new administration building is intended to accommodate existing school faculty and administrative staff and thus not generate additional staff at KIS. Therefore, there should be no change in existing faculty related traffic to the school site and thus not increase emissions that may affect surrounding air quality.

3.5 NOISE

The Noise Control Act of 1972 is the U.S. federal noise law intended to protect residents from noise that would jeopardize public health and welfare. Under the Noise Control Act, the EPA in coordination with state and local governments, required noise control standards which is now law under the Hawai'i Environmental Quality Act and is codified under HRS Chapter 342F (DOH, 2017). Administered by the State Department of Health Indoor and Radiological Health Branch, HRS Chapter 342F regulates noise pollution and addresses community noise controls.

Noise is affected by several factors including the frequency of the sound, period of noise exposure, and changes or fluctuations in the noise levels during exposure. The DOH regulates noise exposure in the following rules:

- HRS, Section 342F – Noise Pollution
- HAR, Section 11-46 – Community Noise Control
- HAR, Section 12-200.1 – Occupational Noise Exposure

HAR, Section 11-46, Community Noise Control, defines maximum permissible sound levels for certain zoning districts and provides minimization and mitigation controls for stationary noises, and equipment related to agriculture, construction, and industrial activities (HAR, 2015). Accordingly, as shown in Table 3.1, noise emitted from the KIS property would typically be regulated under the Class A category as the school site is zoned P-1 Public/Quasi district that is intended for public use. However, under HAR Section 11-46-5(7) Exemptions, any school activity approved by school authorities is exempt from these noise regulations provided the activities are limited between the hours of 7:00 a.m. to 10:00 p.m.

Table 3.1: MAXIMUM PERMISSIBLE SOUND LEVELS IN dBA[1]

ZONING DISTRICTS	DAYTIME (7 A.M. TO 10 P.M.)	NIGHTTIME (10 P.M. TO 7A.M.)
CLASS A (LANDS ZONED RESIDENTIAL, CONSERVATION, PRESERVATION, PUBLIC SPACE, OPEN SPACE, OR SIMILAR TYPE)	55 dBA	45 dBA
CLASS B (LANDS ZONED FOR MULTI-FAMILY DWELLINGS, APARTMENT, BUSINESS, COMMERCIAL, HOTEL, RESORT, OR SIMILAR TYPE)	60 dBA	50 dBA
CLASS C (LANDS ZONED AGRICULTURE, COUNTRY, INDUSTRIAL, OR SIMILAR TYPE)	70 dBA	70 dBA

[1] Hawaii Administrative Rules, Section 11-46, Community Noise Control. 2015.

Existing noise in and surrounding the project area is consistent with that of a residential environment. These existing noises include typical noise generated from residential homes, school activities, park activities, motor vehicles traveling along adjacent roads.

Project Effects

Noise generated from the project would be primarily associated with short-term construction activities versus the long-term activities occurring at the site. Construction activities would be short-term and would mostly be limited to the site. These short-term effects would not have a significant impact on the surrounding environment and typical BMPs would help minimize effects. Noise generated off-site would include construction vehicles traveling to or from the construction site typically when starting or ending activities for the day. Construction activities on-site would be generated from construction equipment that would likely include, but not be limited to excavators, bulldozers, water trucks, chain saws, and trucks. Exhibit 3-1 shows typical noise levels from commonly used heavy equipment 50 feet away from the source.

Exhibit 3-1.
Construction Equipment Noise Levels

Equipment	Typical Noise Level 50 Feet from Source
Backhoe	80 dBA
Dozer	85 dBA
Generator	81 dBA
Grader	85 dBA
Loader	85 dBA
Paver	89 dBA
Scraper	89 dBA
Truck	88 dBA

Typical earthmoving equipment such as bulldozers or pavers would probably be the loudest equipment used during construction. However, the site does not require major cutting or filling activities that should reduce the duration and extent of such equipment. These construction-related noises may be audible at KIS buildings located adjacent to the site if occurring during school hours. Typical noise levels decrease 6 dBA when doubling the distance away. Therefore, noise levels at nearby school buildings and portables should be lower than that shown on the exhibit. In comparison, average noise from a washing machine is about 70 dBA and gas-powered lawnmowers or leaf blowers are about 90 dBA. The specific equipment used would be determined by the contractor, and the equipment identified represents a reasonable approximation of what likely noise levels would be generated.

Therefore, construction activities would inevitably result in short-term, but minor to moderate noise impacts. The extent of these impacts would vary depending on the stage of construction, wind direction, specific equipment being used, distance to the receptor, and the duration of each activity. Therefore, the ability to control construction noise levels relates primarily to the duration and time of construction activity in any one day.

In cases where construction noise exceeds or is expected to exceed the State's "maximum permissible" property line noise levels, a permit must be obtained from the State DOH to allow the operation of vehicles, construction equipment, power tools, etc., which emit such noise levels. This ministerial permit is typical for construction activities. Prior to issuing the noise permit, DOH may require the contractor to incorporate noise mitigation into the construction plan or require the contractor to conduct noise monitoring or community meetings to discuss construction noise.

The DOH noise permit does not limit the noise level generated at the construction site, but rather the times at which construction can take place. Specific permit restrictions for construction activities are:

1. No permit shall allow any construction activities which emit noise in excess of the maximum permissible sound levels ... before 7:00 AM and after 6:00 PM of the same day, Monday through Friday.
2. No permit shall allow any construction activities which emit noise in excess of the maximum permissible sound levels... before 9:00 AM and after 6:00 PM on Saturday.
3. No permit shall allow any construction activities which emit noise in excess of the maximum permissible sound levels on Sundays and on holidays.

The Project's contractor would ensure that the operation of construction equipment and activities would occur during acceptable times to minimize the short-term on school activities and classrooms. The contractor would coordinate with DOH and DOE to ensure compliance and provide the school with sufficient advanced notice of construction activities.

No significant increase in noise levels over existing levels is anticipated from the operation of the new administration building. The project should thus have minimal, if any, long-term negative effect on noise levels within KIS. Building operations would occur within the new air-conditioned building and are not expected to generate significant noise sources outside of the building that may negatively impact school activities and classrooms. In addition, according to HAR Section 11-46-5, any school activity which is approved by school authorities is exempt from State noise controls if activities are from the hours of 7:00 a.m. to 10 p.m. (HAR, 2015). Operation of the facilities would occur during these hours and is not expected to exceed the maximum permissible sound levels for the area.

3.6 FLORA AND FAUNA

A biological survey to address the project's effect on terrestrial flora and fauna was conducted by SWCA Environmental Consultants (SWCA), and a copy of their Flora and Fauna Survey Report is included in Appendix B**.** A team of SWCA biologists conducted a survey of the project site within KIS on September 20, 2023. During the survey, all vascular plant species, vegetation, and wildlife species were recorded. No special-status species were detected in the survey area. A summary of their results is provided.

3.6.1 FLORA

The vegetation present in the survey area consists of two vegetation types: 1) landscaped vegetation, and 2) ruderal vegetation. In all, 12 plant species were recorded in the survey area, none of which are native to the Hawaiian Islands. The biological report includes an appendix providing a list of all vascular plant species observed during the survey. No U.S. Fish and Wildlife Service designated critical habitat for federally endangered plant species was observed within the survey area.

Landscaped vegetation occurs as planted trees among the mowed areas of the project site, as well as some shrubs and herbaceous species along the edges. Some of the landscaped trees are Formosan koa (*Acacia confusa*) and *Senna siamea*; shrubs include ti (*Cordyline fruticosa*) and *Dracaena reflexa* (See Exhibit 3-2).

The ruderal vegetation in the survey area consisted primarily of kikuyu grass (*Cenchrus clandestinus*). These areas are frequently mowed and were experiencing a period of drought during the time of the survey. Other herbaceous species were occasionally seen, such as creeping indigo (*Indigofera spicata*) and Guinea grass (*Urochloa maxima*) as shown on Exhibit 3-2.

Landscaped Vegetation Present | Ruderal Vegetation Present

Exhibit 3-2. View of Landscaped and Ruderal Vegetation Present on Site

Project Effects on Flora

The vegetation type and species identified during the survey are not considered unique, and no native plant species were recorded at the site, meaning none of them are threatened or endangered, proposed for listing, or a candidate plant. The proposed project is not expected to have a significant or adverse long-term impact on botanical resources. Weedy non-native plant species are common in the survey area. Most of these weedy species are widespread in Hawai‘i, and their control is not expected to result in a significant decrease in their number or distribution.

Short-term construction activities are known to spread invasive species to new areas through the movement of vehicles and materials. As a result, the following invasive species minimization measures are proposed to avoid the unintentional introduction or transport of new terrestrial invasive species to Maui:

- All construction equipment and vehicles arriving from outside of Maui should be washed and inspected before entering the survey area.
- Construction materials arriving from outside of Maui should also be washed and/or visually inspected (as appropriate) for excessive debris, plant materials, and invasive or harmful non-native species (plants, amphibians, reptiles, and insects).

- Inspection and cleaning activities should be conducted at a designated location before entering the survey area. The inspectors should be qualified botanists and/or entomologists able to identify invasive species that are of concern relevant to the point of origin of the equipment, vehicle, or material.
- When possible, raw materials (e.g., gravel, rock, soil) should be purchased from a local supplier on Maui to avoid introducing non-native species not present on the island.
- If landscaping occurs as part of the project, native Hawaiian plants or non-invasive plants should be used to the maximum extent possible.

3.6.2 FAUNA

Two non-native bird species were observed during the survey consisting of: 1) feral chicken (*Gallus gallus*); and 2) Zebra dove (*Geopelia striata*). Both species are common in disturbed mid-elevation areas on Maui.

Endangered Hawaiian waterbirds were not detected during the field survey, and the project footprint does not consist of potential foraging habitat such as lowland streams with herbaceous riparian vegetation or tidal mudflats that would support waterbird foraging. Seabirds were not observed in the survey area but may potentially fly over the survey area to and from higher-elevation nesting areas during the seabird fledging period.

Although the feral cat (*Felis catus*), feral pig (*Sus scrofa*), house mouse (*Mus musculus*), and rats (*Rattus* spp.) were not detected, they are likely to occur in the survey area. In addition, federally and state endangered Hawaiian hoary bat forage and roost habitat does occur in the survey area within the landscaped vegetation type.

No reptiles or amphibians were detected. No terrestrial reptiles and amphibians are native to Hawai‘i. No native or non-native insects or other invertebrates were observed during the survey. No special-status species were observed in the survey area.

Project Effects on Fauna

The project would not have a significant long-term impact on non-native bird species observed or others likely present in the area. These results would similarly apply to feral mammals occurring in the project area (e.g. house mice). The project would also not affect reptiles or amphibians or native or non-native insects or other invertebrates having special status. However, minimization measures are proposed to avoid effects on seabirds and the Hawaiian Hoary Bat.

Major threats to the endangered Hawaiian petrel (*Pterodroma sandwichensis*) and threatened Newell’s shearwater (*Puffinus newelli*) include the attraction of adults and newly fledged juveniles to bright lights while transiting between their nest sites and the ocean. Juvenile birds are particularly vulnerable to light attraction and are sometimes grounded when they become disoriented by lights. Many of these grounded birds are vulnerable to mammalian predators or to being struck by vehicles. The following recommendations are provided to avoid and minimize light attraction of the endangered Hawaiian petrel and threatened Newell’s shearwater to the survey area and would be incorporated into design plans developed:

- Restricting construction activities to daylight hours as much as practicable during the seabird breeding season (April – November) to avoid the use of nighttime lighting that could attract seabirds.
- Shielding all outdoor lights to prevent upward radiation which has been shown to reduce the potential for seabird attraction.
- Turning off outside lights that are not needed for security and safety from dusk through dawn during the fledgling fallout period (September 15 – December 15).

Hawaiian hoary bats occur on Maui in native, non-native, agricultural, and developed landscapes. Hawaiian hoary bats forage in open, wooded, and linear habitats with a wide range of vegetation types. These animals are insectivores and are regularly observed foraging over streams, reservoirs, and wetlands up to 300 feet offshore. Hawaiian hoary bats typically roost in trees greater than 16 feet tall that 1) have dense canopy foliage; or 2) in the subcanopy when the canopy is sparse and there is open access for launching into flight.

Hawaiian hoary bats have been documented roosting in mango trees (*Mangifera indica*) and may roost in other trees (e.g., hau) that occur in the survey area. In addition, the Hawaiian hoary bat could forage over the ruderal vegetation type and within the corridor created by the road. Direct impacts to bats could occur during vegetation removal if a juvenile bat that is too small to fly but too large to be carried by a parent is present in a tree or branch that is cut down. To prevent direct impacts to the Hawaiian hoary bat, the following measures are recommended and incorporated into design plans developed:

- No trees taller than 15 feet (4.6 m) in the survey area should be trimmed or removed between June 1 and September 15 when flightless juvenile bats may be roosting in the trees.
- Any fences that are erected as part of the project should have a barbless top-strand wire to prevent entanglements of the Hawaiian hoary bat on barbed wire.

3.7 NATURAL HAZARDS

Due to Hawai'i's location in the Pacific Ocean, the island's topographic landscape, geologic makeup, and climate, Hawaii is vulnerable to several natural hazards that can threaten both communities and physical infrastructure. These hazards include flooding, sea level rise, hurricanes, tsunamis, earthquakes, volcanic eruptions, and wildfires. Some of these hazards have the potential for greater impacts in the future due to climate change. The vulnerability of the project to these hazards are described below:

3.7.1 FLOODING

The Federal Emergency Management Agency (FEMA) has identified Special Flood Hazard Areas or high-risk areas that are vulnerable to flooding. These Flood Hazard Areas are delineated on FEMA's Digital Flood Insurance Rate Maps (DFIRM). Two of the most common types of flooding are river and coastal flooding, however, heavy rains, poor drainage, and construction projects can put certain areas at risk for flood damage (FEMA, 2023). The County has established rules and regulations in Chapter 19.62 of the Maui

County Code to minimize risks to life and property from developments or activities in special flood hazard areas (COM, 2023).

As described in Section 3.2 (Climate and Climate Change), climate change has the potential to increase variations in rainfall patterns and may increase the frequency of and extent of flooding in Hawai'i (SOH, 2023). As a result, increased flood events will pose a higher risk to communities, developments, and infrastructure in the future especially in those areas that are in existing Special Flood Hazard Areas.

As shown in Figure 3.8 (Flood Zones), the project site is within an area of minimal flood hazard, Flood Zone X, on the FEMA DFIRM. Zone X is an area determined to be outside the 500-year flood zone, with minimal risk of flooding.

Project Effects from Flood Hazards

The project should have minimal short- or long-term impact on potential flood hazards associated with the site and surrounding school area. Site improvements for the project would slightly change existing topographic conditions to accommodate the new building and pathway improvements. However, this should have minimal effect on potential flood conditions that are already low risk (Zone X) for this area because improvements would not be large enough to significantly change the overall flow of regional drainage conditions in the area.

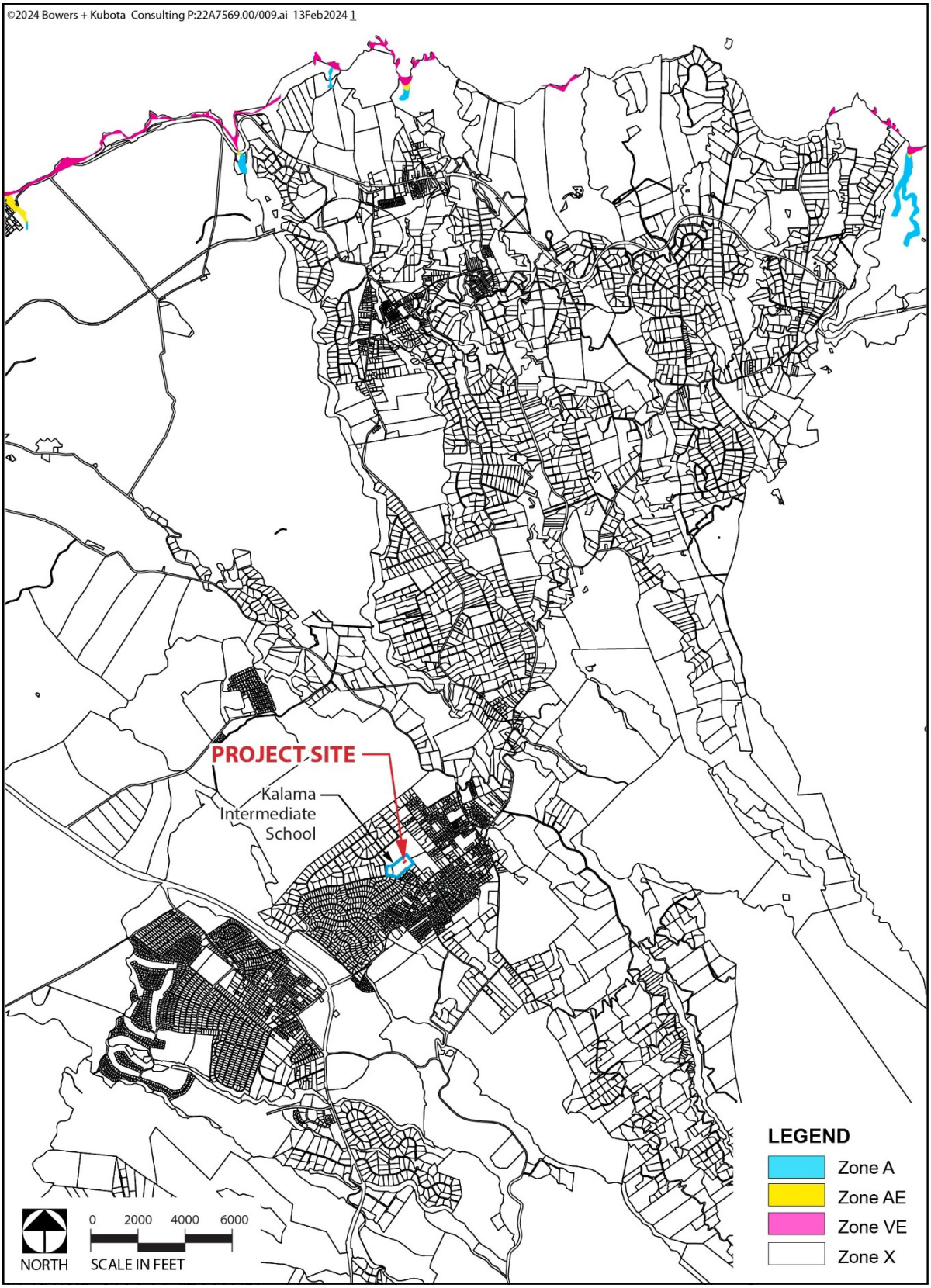
The new building would slightly increase impervious area at this site, however, site design would include measures to minimize increased stormwater discharges and provide sufficient drainage improvements. Increased runoff from the developed site should not affect the school's existing drainage system. Therefore, existing flood hazard conditions at this site and at other adjacent existing uses would not be changed or significantly impacted by the project.

3.7.2 TROPICAL STORMS AND HURRICANES

Tropical storms (winds between 39 to 73 mph) and hurricanes (winds greater than 74 mph) are tropical cyclones that occur over tropical or subtropical oceans and gain their energy from warm ocean waters (NOAA, 2020). Characterized by high winds, heavy rainfall, and large storm surges, these tropical cyclones can have devastating impacts to coastal areas. The Hawaiian Islands are seasonally affected by tropical storms and hurricanes in the Pacific Ocean from June to November.

In the near future, it is expected that warmer oceans due to climate change would create better conditions for more frequent, irregular, and intense tropical cyclones to form in the Pacific Ocean and approach the Hawaiian Islands. The Project site may be impacted in the future by a tropical storm or hurricane that comes directly to or near Maui Island.

Figure 3.8: Flood Zones



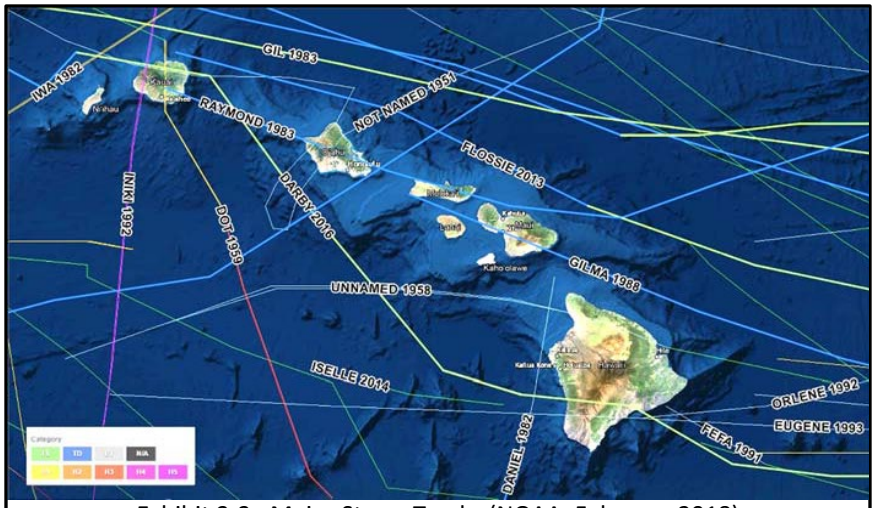


Exhibit 3-3. Major Storm Tracks (NOAA, February 2018)

Exhibit 3-3 shows the paths of prior hurricanes and tropical storms that affected the Hawaiian Islands from 1950-2016 based upon information from the National Oceanic Atmospheric Administration (NOAA). Hurricane Darby recently impacted the State in the summer of 2016, bringing heavy rain and widespread flash flooding to windward areas across the state. The Central Pacific basin had a record number of storms (15) in 2015. Not all of these storms pass directly through the state, and actual hurricane strikes on the Hawaiian Islands are relatively rare in the modern record. More commonly, hurricanes pass close to the islands generating large swells and moderately high winds causing varying degrees of damage (USGS, 2002). Of these storms, Hurricanes Dot (1959), Iwa (1982) and Iniki (1992) directly hit the Island of Kaua'i.

Project Effects from Hurricanes

The three major elements making a hurricane hazardous are: 1) strong winds and gusts; 2) large waves and storm surge; and 3) heavy rainfall (FEMA, 1993). Impacts from hurricanes can thus be severe and lead to beach erosion, large waves, high winds, and marine over-wash despite the fact that the hurricane may have missed a particular island (USGS, 2002). Study of the aftermath of Hurricane Iniki found that a significant threat related to hurricane overwash along the coastline in the Hawaiian Islands is due to water-level rise from wave forces rather than wind forces.

The project site may be impacted in the future by a tropical storm or hurricane that comes directly to or near Maui Island. A hurricane of significant strength and high winds passing directly over or close to the Island of Maui could cause damage to project improvements along with surrounding areas. However, proposed improvements are located a considerable distance away from the shoreline and should not be affected by large waves or storm surge.

Heavy rainfall and high winds may cause some damage to project improvements along with other structures in the surrounding area. To minimize potential hurricane damage, facilities, structures and other improvements would be designed and constructed in conformance to applicable State and County design standards and building codes. Therefore, the susceptibility of being damaged from a hurricane would be no different from other structures or buildings present in the surrounding area.

3.7.3 TSUNAMI RISK

A tsunami is a series of extremely long ocean waves caused by a large and abrupt displacement of the ocean that are mostly generated by earthquakes in marine or coastal regions, undersea volcanic eruptions, or landslides (NOAA, 2019). A tsunami can cause widespread destruction of coastal structures and communities. Over the past centuries, about 78% of tsunamis have occurred in the Pacific Ocean (NOAA, 2019). Predicting when and where a tsunami will strike is currently impossible. Therefore, the tsunami evacuation zone has been established throughout the State of Hawai'i as areas that should serve as a guideline as the minimum safe evacuation distance in the event of a tsunami (HIEMA, 2020).

The project site is not located within the tsunami evacuation zone or the extreme tsunami evacuation zone. That evacuation zone includes the shoreline area up to about West Wakae Avenue. The KIS site is located miles away from the shoreline at an elevation of about 1,550 feet AMSL and would not be affected by a tsunami.

Project Effects from Tsunami

The project's improvements have no likelihood of being significantly impacted and damaged by a tsunami based upon the evacuation zones discussed because the site is located miles away from these areas and at a high elevation. Structures and other improvements would also be designed and constructed in conformance to applicable State and County design standards and building codes.

3.7.4 EARTHQUAKES

Thousands of earthquakes occur every year in Hawai'i because of the presence of active volcanoes and the weight of the islands on Earth's underlying crust (USGS, 2017). Most earthquakes in Hawai'i today occur on or near Hawai'i Island in active volcanic areas such as Kīlauea, Mauna Loa, and Kama'ehuakanaloa (formerly Lō'ihi Seamount) volcanoes. However, only very few earthquakes from Hawai'i Island have been documented to be large enough to cause significant damage and impact residents across the State including Maui Island (USGS, 2017). Major earthquakes in the future that would most likely occur near Hawai'i Island's volcanoes may be large enough to impact the project site.

The Moloka'i Fracture Zone is an extension of a transform fault from the East Pacific Rise that extends from Moloka'i to the Gulf of California. This fracture is tectonic in origin and suspected to contribute to central region seismicity associated with an active seafloor. Because two known earthquakes (1871 and 1938) have occurred along the fracture, it is referred to as the Moloka'i Seismic Zone.

Project Effects from Earthquakes

The USGS has assigned seismic hazard intensity ratings to all islands on a scale from 1 to 4, with 1 representing lowest hazard and 4 the highest (USGS, 2002). Maui possesses a seismic risk ranking of 2 indicating a lower hazard. Earthquake hazard risk within the project area is comparable to other areas of the island. The new building and accessory improvements should not be significantly impacted by most earthquakes occurring within

the state due to the island's lower risk rating. To minimize potential damage, facilities, structures and other improvements would be designed and constructed in conformance to applicable State and County design standards and building codes.

3.7.5 VOLCANIC ERUPTIONS

To date, there are six active volcanoes throughout the Hawaiian Islands, most of which are located on or near Hawai'i Island. The Island of Maui has one active volcano, East Maui Volcano or Haleakalā, which has erupted at least 10 times during the past 1,000 years (USGS, 2023b). The West Maui Volcano is now considered to be extinct. Haleakalā's long eruptive history and recent activity about 400 years ago indicate that the volcano will erupt in the unforeseen future.

Project Effects from Volcanic Eruptions

The project site in Makawao is located on the lower eastern slopes of Haleakalā. The most likely impacts to the site from volcanoes would be from more active volcanic eruptions that occur on Hawai'i Island that may bring heavy volcanic smog or "vog" that would impact public health and safety.

The County of Maui's Emergency Management Agency directs and coordinates the County's emergency management operations in the event of a natural disaster to Maui County. Construction personnel and users of the proposed facilities would respond to any County of Maui emergency alerts, as appropriate, to ensure safety.

3.7.6 WILDFIRES

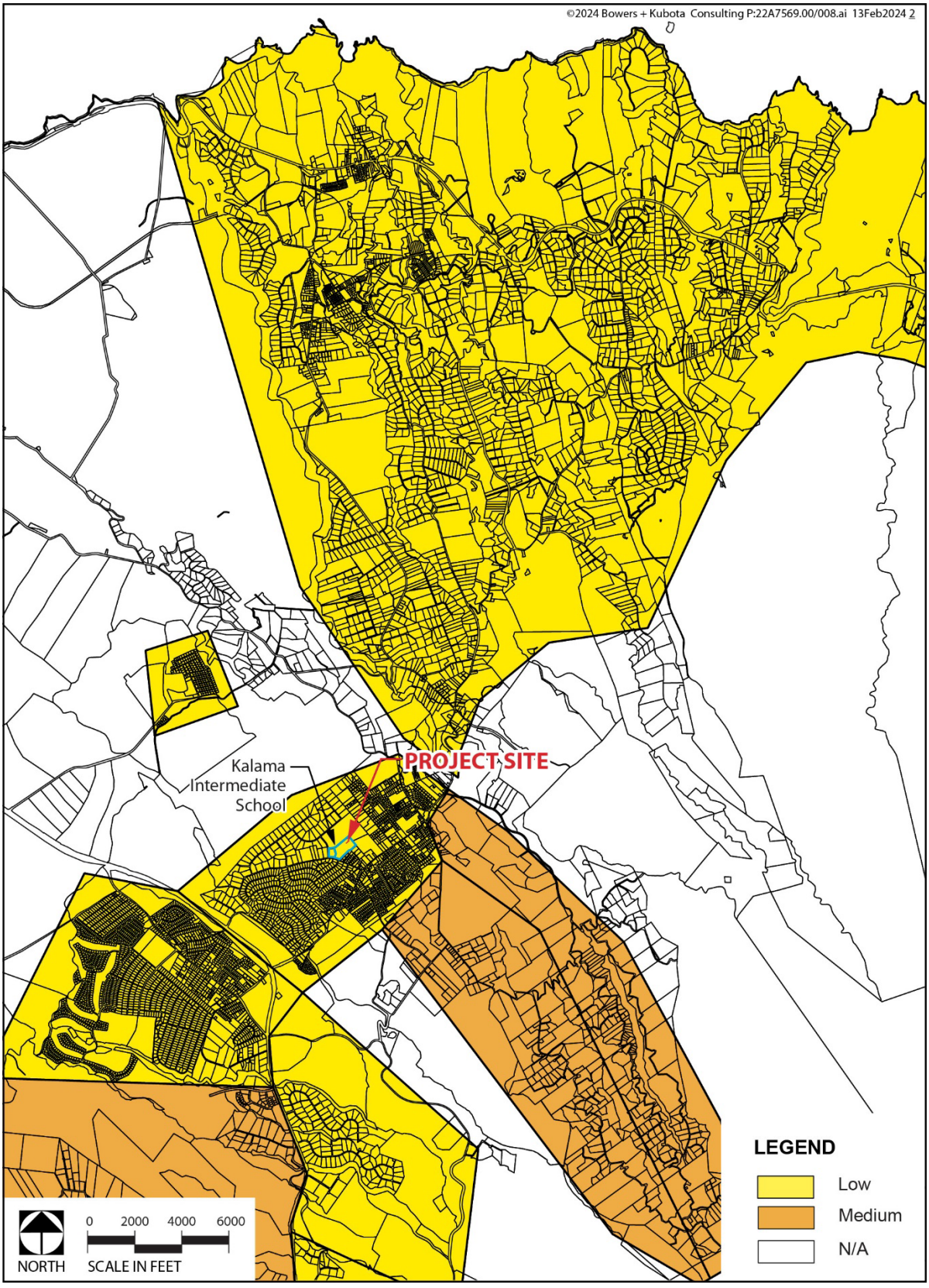
Wildfires are uncontrolled fires that burn wildland vegetation, often occurring in undeveloped or rural areas. Increased wildfires in the State have been occurring from declining managed agricultural land leaving more fire-prone dry invasive grasses and shrubs, and the changing native Hawaiian wilderness to one comprised of drying grasslands. Prolonged periods of drought exacerbated from climate change also contribute to these conditions. Human caused ignitions are the main cause (95%) of starting wildfire incidents. Statewide, data from 2002 to 2012, indicated that about 76 percent were accidentally caused, 19 percent were intentional, and 5 percent from lava and lightning. Accidental ignitions include campfires, fireworks, equipment, and vehicles (HWMO, 2013).

The summer to fall months of the year in Hawai'i is the period of greatest fire risk as areas are hotter and drier, and along with strong trade winds could provide ample fuel for a wildfire. The project site is within a Low Fire Risk Area as shown in Figure 3.9.

Project Effects from Wildfires

The potential for wildfires may occur from undeveloped areas surrounding the town of Makawao that primarily includes agricultural fields on the lower slopes of the town to the north and undeveloped areas further inland (south). Wildfire risk from these areas should be less since the area is considered a low fire risk area, is generally wetter, has several drainageways from upland areas, and has agricultural fields instead of unmanaged scrub lands.

Figure 3.9: Fire Risk Areas



The KIS is also generally located within the central area of the developed Makawao community. This area consists of the school facilities, ballfields, and developed residentials areas that would be associated with more common urban-related fires. Design plans would be coordinated for ministerial review and obtaining necessary permits by County agencies which would include the Department of Fire and Public Safety to ensure that fire apparatus access, water supply for water protection, and fire and life safety requirements are included where appropriate.

3.8 HISTORIC AND ARCHAEOLOGICAL RESOURCES

An archaeological literature review and field inspection (LRFI) was conducted by SWCA Environmental Consultants for the project, and this report is included in Appendix C. For purposes of the study, the area of potential effect (APE) consists of the proposed site for the new administration building consisting of approximately 0.55 acres. The field inspection was conducted to preliminarily assess whether historic properties are present within the site, whether the historic properties will be affected by the proposed project, and to provide preliminary historic preservation compliance review next step recommendations. Work conducted included the following:

1. Historic background research conducted included previous archaeological studies on file at the SHPD, review of documents, photographs, and maps available from other sources, and review of SWCA's internal database.
2. A pedestrian field inspection of 100% of the project area was performed.

3.8.1 BACKGROUND RESEARCH RESULTS

Archival research performed did not definitively identify specific traditional Hawaiian or early post-Contact land uses in practice within the project area during the pre-Contact and early historic periods. By the mid-twentieth century, the project area was developed as an agricultural field planted in pineapple. Prior to this time, livestock grazing and sugar cane cultivation may have been practiced in the project area and immediate vicinity. This included the area situated on the northern edge of Makawao, between the residential and commercial areas of the town to the south and agricultural fields to the north. The agricultural areas surrounding the project area were subsequently developed as parks and athletic fields, whereas the project area itself was developed as part of the intermediate school campus in the late-twentieth century.

3.8.2 PREVIOUSLY IDENTIFIED HISTORIC PROPERTIES

No historic properties have been recorded within the project area or subject school parcel, whereas three historic properties were identified within the 500-meter (1,640 feet) records search radius. These include two historic homes (SIHP Sites 50-50-06-01551 and 50-50-05-01639) located on Makawao Avenue which are listed on both the National and Hawai'i Registers of Historic Places. The segment of Makawao Avenue that trends through the southern portion of the records search radius is also designated as a historic property (SIHP Site 50-50-06-08907). These three historic properties identified within the records

search radius are located approximately 375 to 500 m (1,230 to 1,640 feet) southeast of the project area and will not be impacted by the project.

Given this background research, no surface historic properties were anticipated to be encountered during the field inspection conducted due to the significant prior land alterations associated with historic and modern commercial agriculture and the subsequent construction of the intermediate school campus. The archaeological literature review indicated that no subsurface cultural deposits, archaeological sites, or human remains have been identified within the 500-m (0.3-mile) records search radius. Traditional Hawaiian archaeological sites in the vicinity of Makawao are generally found to have survived only in gulches or other undeveloped areas. Although three historic-era resources are recorded within the records search radius, these are all situated several hundred meters from the project area and will not be impacted by the project.

3.8.3 Field Inspection Results

An archaeological field inspection of the project area was conducted on September 20, 2023 by SWCA. The archaeological field inspection consisted of a 100 percent pedestrian survey of the project area. Photographs were taken to document the current site conditions and several photos are included in the LRFI report in Appendix C.

No surface historic properties, archaeological features, or cultural materials were identified during the field inspection. Evidence of prior grading was evident throughout the project area, as the original ground surface had been leveled prior to the construction of the school campus. The project area consists of a maintained lawn with landscaped tree plantings. Permanent and modular buildings, sidewalks, and a parking area are situated along the perimeter of the project area. Evidence of prior ground disturbances included the presence of subsurface utilities consisting of irrigation, sewer, electrical, and fire control system components.

3.8.4 Project Effects on Historic Properties

The LRFI indicated that no subsurface cultural deposits, archaeological sites, or human remains have been identified within a 500-meter (m) (0.3-mile) records search radius of the project area. No surface historic properties were anticipated to be encountered during the field inspection due to the significant prior land alterations associated with historic and modern commercial agriculture and the subsequent construction of the Kalama Intermediate School campus, which would have destroyed any evidence of surface historic properties. The field inspection subsequently noted no surface historic properties present within or in the immediate vicinity of the project area.

No subsurface cultural deposits or human remains are also anticipated to be encountered during ground disturbing activities associated with the project due to the significant prior ground disturbance associated with decades of commercial agriculture, which likely disturbed soils to a depth of several feet below the ground surface. As no historic properties have been identified within the project area during this study, and none are anticipated to be encountered during the course of the project, no further archaeological work is recommended. The project should thus have no effect on historic properties.

3.9 CULTURAL RESOURCES

The State and its agencies have an affirmative obligation to preserve and protect the reasonable exercise of customarily and traditionally exercised rights of native Hawaiians to the extent feasible. State law further recognizes that cultural landscapes provide living and valuable cultural resources where Native Hawaiians have and continue to exercise traditional and customary practices, including but not limited to hunting, fishing, gathering, and religious practices. In *Ka Paʻakai*, the Hawaiʻi Supreme Court provided government agencies an analytical framework to ensure the protection and preservation of traditional and customary Native Hawaiian rights while reasonably accommodating competing private development interests. The analytical framework guiding Ka Paʻakai analyses involves:

1. The identification of valued cultural, historical, or natural resources in the project site, including the extent to which traditional and customary Native Hawaiian rights are exercised in the project site;
2. The extent to which those resources, including traditional and customary Native Hawaiian rights, will be affected or impaired by the Proposed Action; and
3. The feasible action, if any, to be taken to reasonably protect Native Hawaiian rights if they are found to exist.

The archeological LRFI conducted by SWCA for the project included historical background research and review of previous archaeological studies on file at the SHPD, review of documents available from other sources, and review of other references. SWCA also conducted a field inspection of the project site, and no historic properties were identified. Based upon these efforts, there are no native Hawaiian cultural resources present on the site.

This project site is actively used as part of the KIS campus activities and open space area for students. As a result, this site is not used for Native Hawaiian traditional or cultural practices or have resources used for such practices. This site does not provide access to areas where Native Hawaiian can continue to exercise traditional and customary practices such as hunting, fishing, gathering, and religious practices. Therefore, the construction of the new administrative building on this site would not impact traditional and customary Native Hawaiian rights or practices. No minimization or mitigative measures are subsequently needed by the project to protect traditional and customary Native Hawaiian practices.

3.10 VISUAL RESOURCES

According to Section 19.04.040 of the Maui County Code, a "viewplane" means open space and significant vistas, particularly toward the ocean, the mountains, or into the valleys. The KIS site is located within the Makawao community surrounded by existing ballfields and residences. The project site is situated within the KIS campus and does not serve as an important scenic stationary viewing location or viewplane for the general public because it is within the restricted school campus.

The County's Scenic and Historic Resources report prepared in 2006 as part of the County's General Plan 2030 update was reviewed to identify significant scenic resources in the vicinity of the project. Based upon the scenic corridor protection map for the Makawao area, three scenic corridors having high scenic value were identified. This includes Makawao Avenue, Haleakalā Highway, and Baldwin Avenue. Haleakalā Highway and Baldwin Avenue run in a mauka-makai (southeast-northwest) direction providing scenic views of the coastline, West Maui mountains, and Haleakalā traveling up and down.

Makawao Avenue generally runs in a southwest to northeast direction about 1 mile away from and above KIS and the project site. The project site is also situated at a lower elevation than this road (about 75 feet below). Views of KIS from this road are predominantly blocked by existing homes, trees, and vegetation along this road and from existing lower properties and structures as shown on Exhibit 3-4. Views of the project site from Makani Road that runs along the KIS entrance are also not visible from this road due to existing trees, school buildings, and the site being situated at a lower elevation from this road (about 25 feet) as shown on Exhibit 3-5.

Exhibit 3-4. Makai View from Makawao Avenue East of Makani Road Intersection

Exhibit 3-5. North View of Intermediate School from Makani Road

Project Effects on Views

The new administration building should not have a significant long-term impact on scenic views and important visual resources. Public views along Haleakalā Highway and Baldwin Avenue of the coastline and mountains would be maintained since the new administration building would not be visible. Makai views from Makawao Avenue would similarly not be affected by the project because the new building would not be visible, and views along this road above KIS are generally blocked by existing structures, trees, and other vegetation associated with lower properties. There are no existing visual scenic resources present on the project site that would be displaced by the project. The site consists of landscaped and ruderal vegetation as previously discussed in Section 3.6.1.

The two-story administration building would be 40 feet tall but would not negatively impact public views or change the existing visual character of this area that is a school facility. The site is screened from views along Makani Road from existing school buildings and trees. Based upon the site's elevation being about 25 feet lower than this road, it should not be visible and screen by existing trees.

3.11 HAZARDOUS MATERIALS

Element Environmental, LLC (E2) conducted a Phase 1 Environmental Site Assessment (ESA) for the approximately 0.5-acre project site within the 10.4-acre KIS campus to support construction of a new modular administration building. This Phase 1 ESA was conducted in general conformance with ASTM International (ASTM) Practice E 1527-21, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (ASTM, 2021). A copy of this report is included in Appendix D of this document. E2 conducted a visual site inspection (VSI) of the subject property on September 21, 2023. At the time of the VSI, the subject property consisted of an open grassy area with trees and picnic tables.

The Phase 1 ESA study identified "recognized environmental conditions" (RECs) on the subject property. RECs are defined as: 1) the presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment; 2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or 3) the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment. No RECs were identified for the subject property.

A controlled REC (CREC) is defined as a REC affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (e.g., property use restrictions, activity and use limitations, institutional/engineering controls). No CRECs were identified for the subject property.

A historical REC (HREC) is defined as a previous release of hazardous substances or petroleum products affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities and meets unrestricted use criteria established by the applicable regulatory authority or authorities without subjecting the subject property to any controls (e.g., AULs or other property use limitations). No HRECs were identified for the subject property.

Project Effect from Hazardous Materials

The assessment has revealed no evidence of RECs, CRECs, or HRECs in connection with the project site for the new administration building. Therefore, the project should not be impacted by hazardous materials.

3.12 TRANSPORTATION FACILITIES

3.12.1 EXISTING ROADWAYS AND FACILITIES

There are three County roadways providing access to KIS which are Makani Road, Hale Kipa Road, and Enoka Place as shown on Exhibit 3-6. The intersections associated with these roads are all unsignalized STOP-controlled intersections.

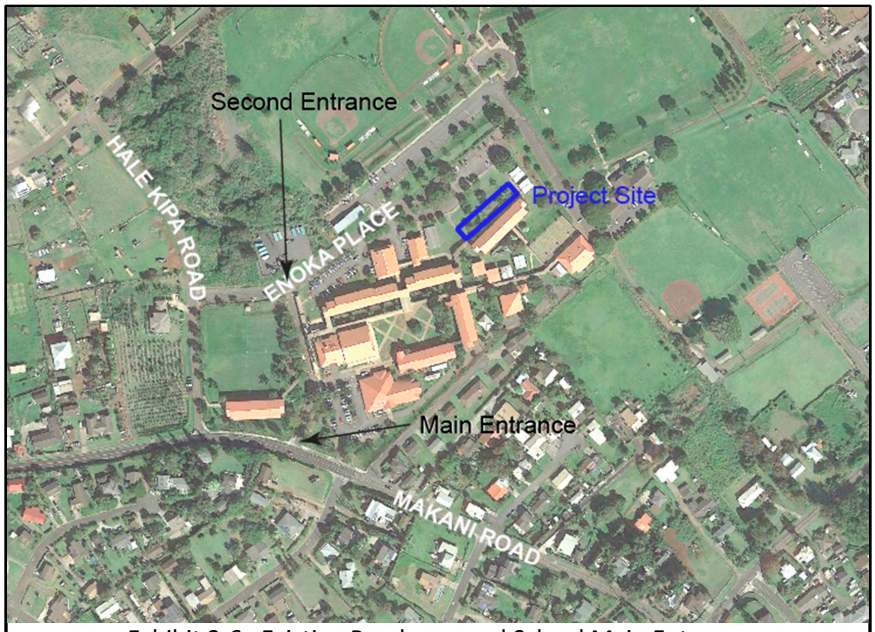


Exhibit 3-6. Existing Roadways and School Main Entrance

Makani Road is a County roadway that provides vehicle access within the Makawao community and connects with Makawao Avenue at its mauka (eastern) terminus and Haleakalā Highway at the makai or southwest end of this community. This road provides access to KIS with the school's main entrance located off this road. Makani Road is a two-way two-laned roadway that was improved by the County several years ago. Along KIS, this road has 11-foot lanes in each direction with paved shoulders. There is a paved sidewalk along the school property.

Hale Kipa Road is a short (about 1,000 feet long) County roadway connecting to Makani Road on the southern end and Hoʻomana Road on the northern end. This is a two-way two-laned roadway with no paved shoulders or sidewalks.

Enoka Place is a short County roadway routed eastbound from its intersection with Hale Kipa Road. This two-way two-laned road runs about 650 feet in length before ending at the parking lot entrance to the County's Eddie Tam Memorial Park that includes several ballfields. KIS has a second access to the school connecting to Enoka Place as shown on Exhibit 3-6.

There are no dedicated bicycle facilities provided along these roadways. Bicyclists traveling in the vicinity would need to share Makani Road and Hale Kipa Road with vehicles. Transit service in the Makawao area is provided by the County's Maui Bus as part of their Upcountry Islander Route 40. However, the bus route only travels along Makawao Avenue in the vicinity of KIS connecting with Baldwin Avenue and Haleakalā Highway and does not travel along Makani Road.

3.12.2 PROJECT EFFECT ON ROADWAYS AND FACILITIES

Existing Traffic Occurring

Based upon State Department of Transportation (DOT) highway information, Makani Road had an annual average daily traffic (AADT) of 4,990 vehicles in 2019 based upon a traffic count station located about 0.5 miles makai of KIS. The more heavily traveled Makawao Avenue had an AADT of about 13,600 at a traffic count station located east of the Makani Road intersection.

The morning peak hour (7:00 to 8:00 a.m.) traffic recorded on Makani Road had a total of 643 vehicles with about 65% of the traffic traveling in the makai direction (away from KIS). This peak hour traffic was about double the normal traffic occurring on this road during the morning reflecting both work and school related commuter traffic. The afternoon peak hour (3:45 to 4:45 p.m.) traffic was lower at 445 vehicles and more evenly split with about 55% traveling makai. However, there was a short spike in traffic at 1:15 p.m. with 162 vehicles recorded in a 15-minute span that was more than double normal traffic occurring.

This reflects school-related traffic from KIS which ended about that time on the date of the traffic count (Wednesday). Based upon the relatively low traffic occurring along Makani Road, any congestion would probably be short associated with KIS related student traffic during the morning and after school. The low traffic volumes of cars traveling along this road should not significantly impact intersections around KIS.

Project Effect on Traffic Facilities

The project's new administration building would not significantly change the number of administrative staff needed at KIS because the number of teachers and administrative support staff needed are based upon student enrollments. The new building would not change the number of students enrolling at KIS since that is more directly related to enrollment occurring at feeder elementary schools. The new administration building would provide a new modern building to support the school's administrative staff and operations that are now spread out over other school buildings due to a lack of sufficient facilities. Consolidating administrative operations at the new building would allow current space used at other buildings to be better used to support existing school programs, provide more space for classroom use, etc.

Therefore, the project should result in minimal if any change in the number of vehicles entering and exiting the school during the morning and afternoon peak hours. Vehicles used by faculty and support staff traveling to the school would continue to be limited by the number of available parking stalls that would not change under this project. The project should thus not have a significant long-term impact on traffic conditions in the area or negatively impact the operations of existing unsignalized intersections at the roadways near the school.

During construction activities, there would be an increase in construction related traffic at the school for construction workers entering and leaving the site. The number of construction workers traveling to the school would be dependent upon the selected contractor, but it is not anticipated to be significant (perhaps 10 or less). This additional traffic would have a short-term effect on traffic conditions near the school during the morning and afternoon peak periods, and the during of this would just be during the construction period. If construction occurs during the summer or during school breaks, such traffic conditions would be reduced since student and faculty related traffic would not be present.

The project would not change existing multimodal facilities in the vicinity of the area and should thus have no or de minimus effect on these facilities or their current operations. The new administrative building would be for existing school staff and thus would not affect the number of bicyclists traveling along Makani Road or other nearby roads. The new building would not affect existing bus service provided by the County as there is no bus stop at the school along the County's Upcountry Islander Route 40 service.

3.13 INFRASTRUCTURE FACILITIES

The project includes the construction and installation of new utilities to service the new administration building which includes sewer, water, drainage, electrical, and telecommunication infrastructure.

3.13.1 WATER FACILITIES

Water utility service to KIS is provided by the County Department of Water Supply (DWS). The school's water system includes domestic water, irrigation supply, and fire protection. DWS serves five sections within the County: Central Maui, East Maui, Moloka'i, Upcountry Maui, and West Maui. The water distribution system in the area includes a 4-inch diameter line along with an 8-inch diameter line within Hale Kipa Road.

Project Effects on Water Facilities

The potable water supply for the new administration building will be connected to the existing water distribution system within the school campus. A new 2-inch water service line for the administration building is planned to be connected into the existing 3-inch water line within the campus area. Activities occurring at the new administration building are not expected to significantly increase water demand associated with the entire KIS school demand since existing staff would be relocated to the new building and the project would not increase student enrollments. Thus, water use currently occurring at other

buildings as part of administrative operations and other activities (e.g., restroom use) would be reduced at those buildings and consolidated at the new building resulting in minimal net change to the overall demand. Therefore, the project should not have a negative long-term impact on the County's water system.

Design plans will be coordinated with the County DWS during the design phase and necessary ministerial permits will be obtained. Any water use along with any applicable water system facilities charges would be funded by the State DOE when water is made available for project improvements.

The project would have minimal short-term construction-related effects on the County's water system and supply. Such water use would likely be associated with BMP measures such as watering developed site conditions to minimize erosion, seeding landscaping improvements, and BMPs for trucks and vehicles accessing the site (e.g., cleaning tires of debris).

3.13.2 WASTEWATER FACILITIES

The KIS campus along with other developed areas of Makawao are serviced by a septic system to treat wastewater generated. The leach field serving this system is located on the west end of the campus in an area bordered by Makani Road, Hale Kipa Road, and Enoka Place.

Project Effects on Wastewater Facilities

The proposed sanitary sewer system would consist of a 4-inch lateral connection to the new administration building. The sewer lateral from this building would then connect to a new 6-inch main that would connect to an existing sewer manhole located off the south corner of the proposed building. This manhole connects to the campus' septic system. The design of the sewer system would comply with the Standard Specifications for Public Works Construction dated September 1986, of the Department of Public Works, County of Maui.

Operation of the new administration building is not expected to significantly increase wastewater generated from the school campus because existing staff would be relocated to the new building and the project would not increase student enrollments. Thus, wastewater currently generated at other buildings as part of administrative operations and other activities (e.g., restroom use) would be reduced at those buildings and consolidated at the new building resulting in minimal net change to the overall amount generated. Therefore, the project should not have a negative long-term impact on the septic system.

The project would have minimal short-term construction-related effects on the County's wastewater collection system and WWRF. Construction workers would likely use portable restrooms at the site that would be properly disposed of.

3.13.3 DRAINAGE FACILITIES

The County Department of Public Works (DPW), Engineering Division is responsible for overseeing drainage systems and improvements. The small project site for the new building is presently undeveloped and thus has no existing drainage improvements. However, there are drainage improvements present within the KIS campus. The site's Haliimaile soils (HgB and HhC) is characterized as having moderately high drainage, and thus has low to no tendency to flood or pond that would reduce the potential for discharges of stormwater runoff except during periods of high rainfall.

The project site for the new building is relatively flat, and drainage is generally by sheet flow towards the parking lot northwest of the project area and towards the existing drain inlet located west in between the proposed administration building and KIS portables.

Project Effects on Drainage Facilities

Proposed grading of the site is planned to maintain the existing drainage pattern. There will be an increase in runoff volume due to the added impervious areas from roof and paved surfaces. The proposed drainage system will be designed to manage the increase in runoff and maintain flows to the existing drainage system to predevelopment rates to prevent adverse impact to the receiving downstream drainage system. The proposed drainage system is planned to incorporate an underground infiltration system using subdrains to infiltrate the increase in runoff volume generated.

New drain inlets, area drains, drainpipes and a sidewalk culvert would be installed. Swales will also be added to ensure runoff will enter the new drain inlets and downspouts will also be added to the building. Design of the new drainage system will be in accordance with the County's "Rules for the Design of Storm Drainage Facilities."

Therefore, the project should not have a significant impact on existing drainage facilities or negatively impact surrounding downstream school facilities. Design plans would be coordinated with the County DPW for review during the design phase and necessary ministerial permits will be obtained.

3.13.4 SOLID WASTE DISPOSAL SERVICES

The County Department of Environmental Management's Solid Waste Division is responsible for solid waste collection services and disposal at landfills for the County. The County provides residential curbside refuse pick up and disposal services in four major districts on the island; Central Maui (including Wailuku, Kahului and South Maui), Makawao (including Kula, Pukalani, Pāʻia and Haiku), Lahaina (West Maui), and Hana. Non-residential and commercial uses contract with a private waste hauler for collection services.

There are currently four active County landfills. Two landfills are located on Maui and consist of the Central Maui Landfill and the Hana Landfill. The Central Maui Landfill, located in Puʻunēnē, is the municipal refuse and recycling center serving the project area. The landfill facility, located about 3 miles east of the project site, also provides composting and motor oil and residential recycling services. Construction and demolition waste produced

from the project's construction activities would also be disposed of at the Central Maui landfill. Wildfire ash and debris removal from the Lahaina wildfire disaster would not impact the Central Maui Landfill because those contaminated debris are not allowed for disposal at this landfill.

Project Effects on Solid Waste Facilities

The project would have minor short-term construction-related effects on the Central Maui Landfill due to the disposal of construction waste. The project's long-term operations should have minimal change to the amount of solid waste currently being generated from existing activities. Operation of the new administration building is not expected to significantly increase total waste generated from the school campus because existing staff would be relocated to the new building and the project would not increase student enrollments. Thus, solid waste currently generated at other buildings as part of administrative operations and other activities would be reduced at those buildings and consolidated at the new building resulting in minimal net change to the overall amount generated. Therefore, the project should not have a negative long-term impact on the County's solid waste facility.

Solid waste generated from construction activities would have a minor short-term impact. This waste would consist primarily of vegetation, construction materials, and other associated debris. The amount of construction debris generated is not expected to be significant because the site grubbing, excavation and preparation activities would not be significant given the site's relatively level topography not requiring significant cutting and filling of material. The construction contractor would be responsible for the disposal of this waste at the Central Maui Landfill and would dispose of material in accordance with the County's procedures (e.g. having a valid landfill account and C&D Number).

Waste generated from operations would be typical of office activities. Typical solid waste generated would consist of organics, paper, and plastics. Solid waste from these activities will also continue to be collected by a private disposal service.

3.13.5 ELECTRICAL AND TELECOMMUNICATION SERVICES

Electrical power would be provided by the Maui Electric Company (MECO), a subsidiary of the Hawaiian Electric Company (HECO) who provides electricity for 95% of residents in the State. MECO serves about 73,933 customers throughout Maui County and its energy is generated from various sources including oil plants and renewable energy (about 35.6%) (HECO, 2023). Electrical lines servicing the area in and around the intermediate school campus are located along above ground utility poles along Makani Road and other surrounding roadways.

Telecommunication infrastructure serving KIS and the surrounding area are provided by Hawaiian Telcom, Maui's largest local-access landline service provider, and/or Spectrum Charter Communications, a broadband connectivity company.

Project Effects on Electrical and Telecommunication Facilities

The addition of the new administration building is not expected to have a significant impact on MECO's ability to provide electrical service. The additional demand generated should be accommodated by MECO and would not require additional improvements to existing utility poles or their power plant. The project's design phase would coordinate with this utility company to identify extension improvements needed within the school to connect the new building. Electrical extensions serving the new building within the school would be located underground similar to those serving other existing school buildings.

The new administration building would include telecommunication facilities to support operations occurring and there should not be a significant impact on the providers in extending this service. The project's design phase would coordinate with the appropriate provider to identify extension improvements needed within the school. Telecommunication extensions serving the new building within the school would be located underground similar to those serving other existing school buildings.

3.14 PUBLIC FACILITIES

This section discusses the project's effects on public facilities and operations in the general vicinity. Figure 3.10 includes a graphic identifying the various facilities in the vicinity.

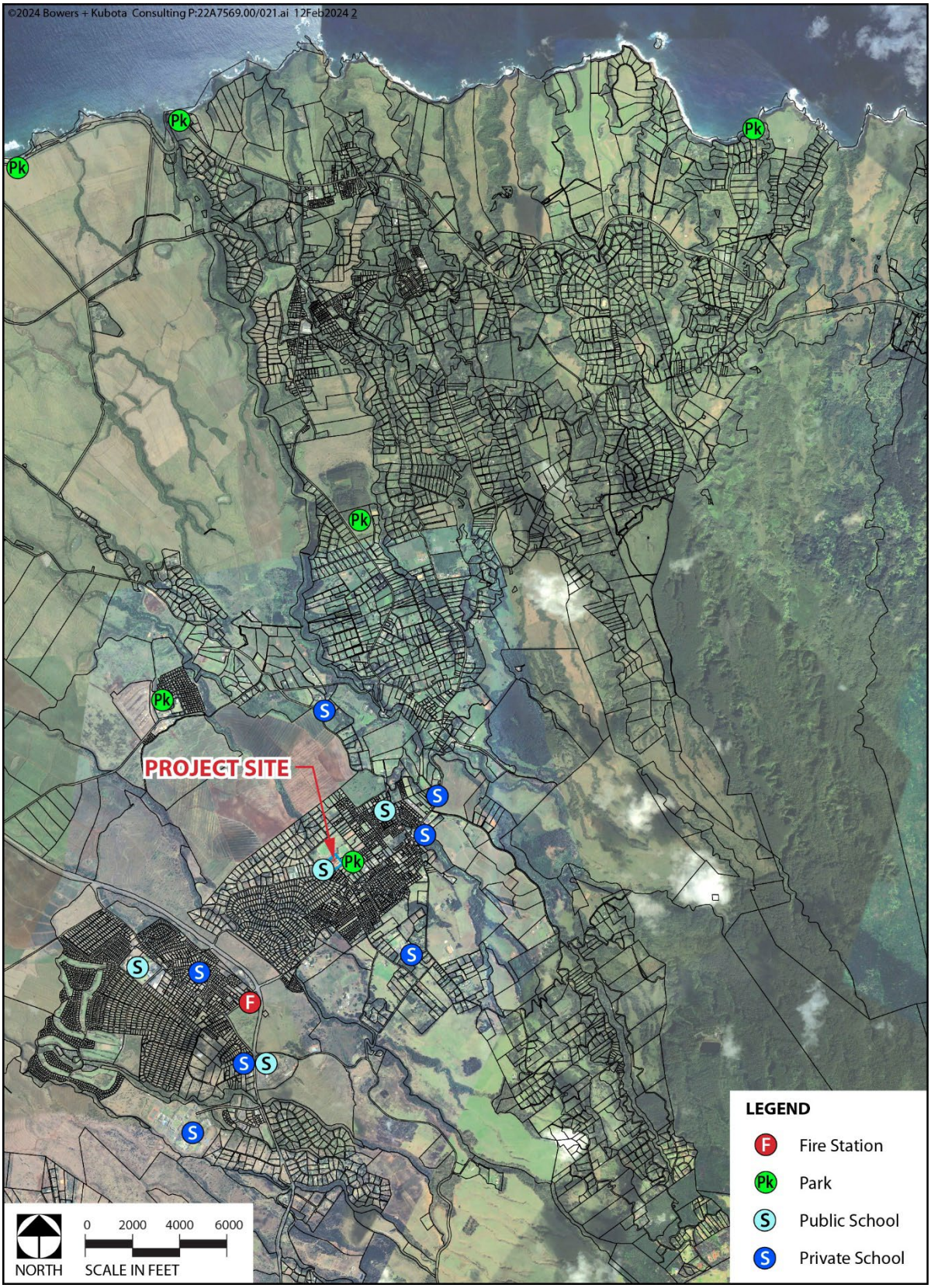
3.14.1 EDUCATIONAL FACILITIES

The project site is located within the Samuel Enoka Kalama Intermediate School, or KIS, property identified as TMK: (2) 2-4-032:109 that is comprised of 10.4-acres. The new administration building project would be sited within an approximately 0.55-acre undeveloped area within this school property. KIS is part of the State DOE's regional Baldwin-Kekaulike-Maui Complex Area that generally includes most of the central Maui region. KIS is within the Kekaulike complex that has a total of seven schools with Kekaulike High School being the high school served by this complex. KIS is the only intermediate school serving this complex, and the remaining elementary schools are Haʻikū, Kula, Makawao, Pāʻia, and Pukalani.

The only other public school located in the Makawao community is Makawao Elementary School located about 2,500 feet (0.47 miles) away from KIS. This elementary is situated along Baldwin Avenue northeast of KIS. Seabury Hall is a private school located on Olinda Road in Makawao situated over 0.5 miles further mauka (southeast) of KIS. Seabury Hall is a private college preparatory school affiliated with the Episcopal Church and serves middle and high school students.

In the Pukalani community southwest of Makawao, there is Pukalani Elementary School and King Kekaulike High School located over one mile away from KIS. Kamehameha Schools Maui is a private school also located in Pukalani that provides grades Kindergarten to 12th grade.

Figure 3.10: Public Facilities



Project Effects on Educational Facilities

The project would have a positive beneficial long-term impact on KIS facilities and operations because the new administration building would provide the school's administrative staff with modern facilities to support their operations that are now spread out over other school buildings due to a lack of sufficient facilities. Consolidating administrative operations at the new building would allow current space used at other buildings to be better used to support existing school programs, provide more space for classroom use, etc. This would benefit students and provide improved facilities for faculty with the additional space made available.

The project would not impact other elementary schools within the Kekaulike complex or other private schools in the area such as Seabury Hall. The project would not affect future student enrollments at other public schools since it only involves a new administration building for current KIS staff.

Construction of the project would inevitably have a minor short-term effect on KIS buildings or portables situated nearest to the site due to site improvements, building construction, etc. Such temporary effects may include additional noise from activities, fugitive from site improvements, and stormwater runoff. Various minimization measures using standard construction BMPs would be incorporated into the project's design plans to minimize potential short-term effects. Design plans would incorporate structural and non-structural BMPs to address potential discharge of pollutants from stormwater before and after construction. Such measures would be instituted following site-specific assessments during the project's design phase.

Construction activities would inevitably result in minor to moderate noise impacts. The extent of these impacts would vary depending on the stage of construction, wind direction, specific equipment being used, distance to the receptor, and the duration of each activity. Therefore, the ability to control construction noise levels relates primarily to the duration and time of construction activity in any one day. However, the site does not require major cutting or filling activities that should reduce the use of large earthmoving equipment such as bulldozers.

BMPs in design plans would also include specifications to minimize the discharge of air pollutants before and after construction. BMPs for fugitive dust and engine emissions would be installed before construction and maintained throughout the construction period. Such measures such as installing dust screens or wind barriers around the construction site, stabilizing and covering materials, and the watering of exposed areas should help minimize potential effects.

3.14.2 RECREATIONAL FACILITIES

The nearest recreational facility to the project site is the Eddie Tam Memorial Center located adjacent to KIS. This County park encompasses about 41 acres and consists of a variety of recreational athletic fields (Little League and Bronco ball diamonds), extra baseball and softball fields, a soccer field, tennis and basketball courts, a gymnasium, a community center, and several parking lots. These facilities and fields border the northern to eastern boundary of KIS. Hāliʻimaile Park is a 5.8-acre County park located about 1.5

miles makai (northwest) away from KIS. This park includes a gymnasium, basketball court, tennis courts, a multi-purpose field and a baseball field, and a Youth Center annex with parking lot. Both parks are maintained by the County of Maui, Department of Parks and Recreation.

Project Effects on Recreational Facilities

The project should not have any negative long-term impact on recreational facilities or activities conducted at the Eddie Tam Memorial Center or Hāliʻimaile Park. This project does not include new residential housing or other land uses that would increase the resident population that may place additional demand and increase congestion at these public recreational facilities. The project's new administration building would not change the number of administrative staff needed at KIS or student enrollments. The new administration building would be located within KIS and intended to serve school administration activities with a new modern facility.

Construction of the project could inevitably have a minor short-term effect on activities occurring at the nearby ballfields at the Eddie Tam Memorial Center due to site improvements, building construction, etc. The ballfields are located over 200 feet away from the building site providing sufficient distance and the school's parking lot and park's parking lot further separate this project. Construction activities would typically occur on weekdays during normal business hours (e.g. 7:30 a.m. to 4:30 p.m.) and not occur on weekends. Thus, during the school session, activities occurring at that park would typically occur after school and not have much conflict with construction activities. During the summer, construction activities should similarly not negatively impact or prevent recreational activities from occurring.

Such temporary effects may include additional noise from activities, fugitive from site improvements, and stormwater runoff. Various minimization measures using standard construction BMPs would be incorporated into the project's design plans to minimize potential short-term effects, and such plans would be reviewed by the County as part of ministerial permits obtained.

3.14.3 POLICE AND FIRE PROTECTION

The County of Maui Police Department serves Maui County which consists of six districts and three islands: Maui, Lānaʻi, and Molokaʻi. Four police stations are located on Maui Island: Wailuku Main Station, Hana Station, Kīhei Station, and Lahaina Station. Police service in the Makawao area is provided by the department's main station located at 55 Mahalani Street in Wailuku.

The Maui County Department of Fire and Public Safety provides emergency and non-emergency services for the islands of Maui, Molokaʻi, Lānaʻi, and Kahoʻolawe. There are 14 fire stations throughout Maui County, 10 of which are located on Maui Island. A fire station is located in the Makawao community situated at 134 Makawao Avenue. This station is located about 1 mile away from KIS and their response time would likely be a few minutes (4 to 5 minutes).

Project Effects on Police and Fire Protection

The project should not have a significant long-term impact on the police and fire department's ability to provide protection services or their operations. The new administration building is not expected to significantly change to the current level and demand for protection services that are already occurring for KIS. The building would consolidate existing administrative operations and not involve changes to school staff or student enrollments. The new building would be designed to provide sufficient fire protection.

Construction of the project would not have any short-term impact on the police and fire stations. Temporary effects such as additional noise from activities, fugitive from site improvements, and stormwater runoff would thus not affect their operations or increase response calls. If an incident were to occur during construction activities that requires emergency attention, it is anticipated that the level of demand could be met by all these emergency and public safety services. Additionally, the State DOE will coordinate with the Maui County Department of Fire and Public Safety during the building permit review process to ensure that fire apparatus access, water supply for fire protection, and fire and life safety requirements are included where appropriate in design plans.

3.14.4 MEDICAL SERVICES

Maui Memorial Medical Center located in Wailuku is operated by Maui Health and Kaiser Permanente and is the only acute care hospital on Maui Island. The Maui Medical Group is a group of physicians that are joined together in a medical partnership to provide medical care to island residents operating from several locations on island. Their nearest facility is located in Pukalani. There are no other medical clinics in the immediate vicinity of KIS and the project site.

Project Effects on Medical Facilities

The project should not have a long-term impact on the medical facilities. This project does not include new residential housing or other land uses that would increase the resident population that may place additional demand at medical centers or hospitals along with staff operating there. The new building would consolidate existing administrative operations and not involve changes to school staff or student enrollments.

Construction of the new building would not have any short-term impact on medical facilities or their operations since there are none located in the immediate vicinity of the project site.

3.15 SOCIOECONOMIC

3.15.1 POPULATION AND HOUSING

The County of Maui, accounting for about 11.4% of the State population, has a resident population estimated to be about 164,351 according to the 2020 U.S. Census Bureau. As shown in Figure 3.11 (2020 Census Designated Place), KIS is located within the Makawao Census Designated Place (CDP). Makawao had a population of 7,297 persons based upon the 2020 Census and 7,184 persons in 2010. This reflects a fairly stable population base increasing by only a total of about 1.6 percent (113 persons) over 10 years.

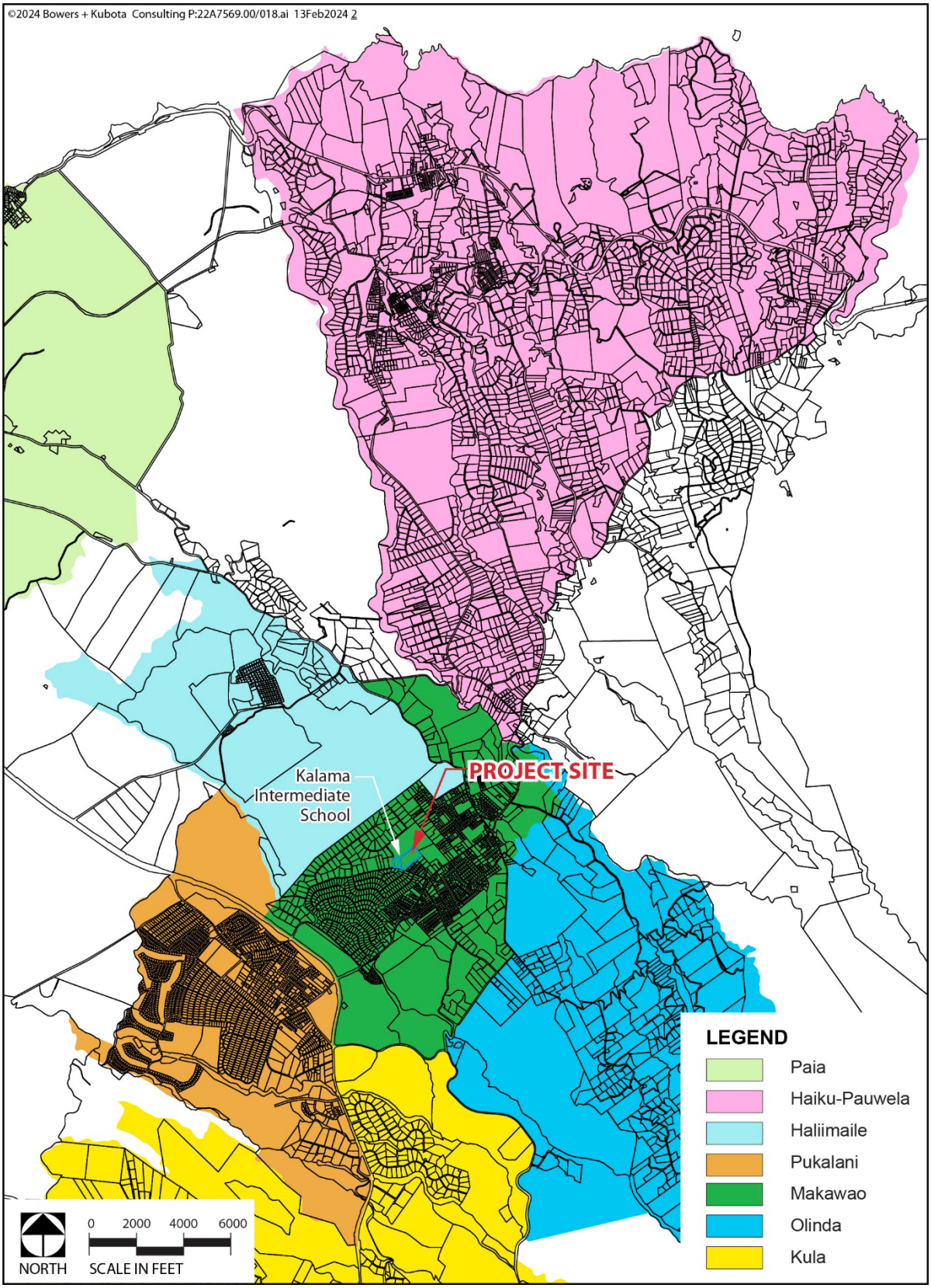
Makawao community's is comparable to Maui County as a whole with about 19.4% of the population in 2020 being 65 years or older and 21.1% being 18 years or younger in Makawao. Maui County has 20.7% of the population being 65 years or older and 20.9% being 18 years or younger. In terms of race, Makawao has 34.4% being White, 28.0% being of two or more races, Asian at 16.7%, and Native Hawaiian or other Pacific Islander at 16.2%. Maui County has 34.6% White, 28.6% Asian, 24.9% of two or more races, and 10.4% being Native Hawaiian or other Pacific Islander.

Makawao's housing condition has slightly improved over the County as a whole. There were 2,668 households from 2018 to 2022 with 2.85 persons per household in Makawao. Housing in Makawao had an owner-occupied housing unit rate from 2018 to 2022 of 70.4% and the median value of such units was $769,200. In comparison, Maui County has 53,919 households and a higher rate of 3.00 persons per household. The County's household occupancy rate was 63.9% and the median value was $676,800 which are both lower than Makawao.

Project Effect on Population and Housing

The project should not impact the population or housing conditions within the Makawao community or island wide. There are no new housing units or visitor units included under this project since it just involves constructing a new administration building. Therefore, the Project would not add new resident or visitor populations to the area or influence future demographic trends projected for the region. The project's new administration building would not change the number of administrative staff needed at KIS or student enrollments because it would allow consolidation of administrative staff and operations in a new modernized and centralized building to support KIS.

Figure 3.11: 2020 Census Designated Places



3.15.2 CHARACTER OF MAKAWAO COMMUNITY

Makawao is known as "Upcountry Maui" and was historically a center of activity for ranching and is traditionally known as the last paniolo town. Rodeo and polo are popular activities in the area reflecting the region's history and culture. The lower area of Makawao is more suburban in character developed with several subdivisions and businesses scattered through the town area. The urban town area also includes eclectic shops, boutiques and art galleries. Further mauka, the community is more rural in character with several ranches, farms, and undeveloped open space areas.

Project Effects on Community Character

This project should not have a significant long-term impact on the character of the Makawao community. The project does not include new residential housing, visitor units, or other major land uses that would increase the resident or visitor population occurring in the community and subsequently change the character of the area around the KIS site. The new administration building would not change the number of administrative staff needed at KIS or student enrollments. It would just allow consolidation of administrative staff and operations in a new modernized and centralized building to support the school.

3.15.3 ECONOMIC AND FISCAL EFFECTS

The project would not have a significant long-term impact on economic conditions associated with Maui's economy because it just involves developing a new administration building to support KIS operations and activities. There would not be a significant change in these operations in terms of staffing and activities that would noticeably impact economic conditions of businesses operating in Makawao or island wide. Therefore, there would not be a significant change to the school's operating budget due to personnel. There would be additional electrical costs for operating the new building, but that and other associated costs should not be significant or impact the school's fiscal condition.

Short-Term Construction-Related Economic Effects

Construction activities would result in a short-term positive economic impact for Maui due to construction-related spending and employment. The estimated construction cost for this project of $10.9 million would create construction jobs during the duration of construction activities over an approximately 6-month period, as well as support industries that service construction activities directly and indirectly. Three broad types of jobs are distinguished below:

- Direct jobs are immediately involved with construction of a project or with its operations.
- Indirect jobs are created as businesses directly involved with a project purchase goods and services in the local economy.
- Induced jobs are created as workers spend their income on goods and services.

Direct construction jobs typically consist of on-site laborers, tradesmen, mechanical operators, supervisors, etc. These short-term jobs created would generate additional personal income for construction workers with wages paid directly to them or operational employees associated with construction activities.

Direct construction jobs created would also stimulate indirect and induced employment and spending of wages within other industries located in the Makawao and elsewhere on the island, such as retail, restaurants, material distributors, and other related businesses supporting the construction industry. Island residents employed within the construction industry would likely fill these construction jobs.

The Project would create a small number of direct new jobs over the construction period. Therefore, the total employment impact (direct, indirect, induced) generated by this project over the construction period would create a relatively small but positive impact in employment for the island. These short-term construction jobs would generate additional personal income for construction workers employed. Indirect and induced income would also be generated from wages spent. This additional induced income would have a relatively minor positive impact to businesses and residents on the island.

Fiscal Effects of Project

Fiscal impacts would primarily involve additional tax revenue to the State from construction of this project. Tax revenue sources for State government are composed primarily of general excise taxes (GET) on development costs and construction materials, along with corporate income tax, and personal income tax from construction workers. The $10.9 million project construction budget expended would generate a relatively small amount of additional tax revenue to the State. These construction-related tax revenues would have a relatively minor positive effect on the State's fiscal condition because of the short-term increase in revenue associated with construction activities.

County revenues generated are primarily limited to tax revenues on privately-owned property and improvements, and to a lesser extent fees charged for various activities such as water, sewer, permits, etc. Because the project site is located within the State-owned KIS property, no additional revenue would be generated for the County from property taxes.

3.16 SECONDARY AND CUMULATIVE IMPACTS

3.16.1 SECONDARY EFFECTS

Secondary effects, also referred to as indirect effects or secondary impacts, are effects caused by an action that is later in time or farther removed in distance, but is still reasonably foreseeable as defined under Hawaii Administrative Rules Title 11-200.1-2 (2019). A secondary effect may include a growth-inducing effect and other effects related to induced changes in the pattern of land use, population density or growth rate, and related effects on air, water, and other natural systems, including ecosystems. Secondary impact assessments are concerned with impacts that are sufficiently "likely" to occur and not with the speculation of any impact that can be conceived of or imagined.

The project would not result in secondary impacts that would have significant or adverse long-term impacts on the natural and human environment including ecosystems, social-economic conditions, infrastructure, or public facilities. Construction of the new administration building would not contribute to growth inducing effects or changes to resident population densities or changes to student enrollments at KIS. There are no new housing units or visitor units included under this Project. This project just involves relocating existing administrative operations to a new modern building to better support school operations. As a result, the administrative operations occurring at the new building would be the same as those already occurring spread out over other buildings within the school.

Such growth inducing impacts are typically associated with more large-scale or intensive developments such as new residential subdivisions. New subdivisions would increase resident populations in the area and subsequently have a secondary impact by placing more demand on public facilities like schools and parks serving this area. The project does not include major commercial or industrial uses that could generate substantial secondary impacts from residents or visitors now traveling to this location and subsequently changing the community's character. The project would not induce additional development in the surrounding area such as higher density residential uses or generate economic stimulus for new commercial or industrial uses in the vicinity similar to redevelopment along transit lines.

3.16.2 CUMULATIVE IMPACTS

"Cumulative Impact" as defined in HAR §11-200.1-2 is the impact on the environment that results from the incremental impact of the action when added to other past, present, and reasonably foreseeable future actions regardless of what agency or person undertakes the other actions. Cumulative impacts can result from individually minor but collectively significant actions taking place over a period of time associated with the study year. The focus is on "reasonably foreseeable" actions that are those likely to occur or probable rather than those that are merely possible or subject to speculation. The prediction of reasonably foreseeable impacts thus requires judgment based on information obtained from reliable sources such as approved development plans and land use entitlements received.

There are no other known developments in the immediate area that are reasonably anticipated to be completed within the 2025 study year and contribute to a cumulative impact on the project area's environment or infrastructure facilities serving this site and within KIS. The discussion of impacts presented within this document has thus provided sufficient information to assist in addressing the applicable cumulative effects associated with the project because no other reasonably foreseeable future actions are being completed and operational within the 2025 study timeframe.

The discussion of impacts includes the full development of the project on the site. There are no phases planned or needed for the incremental construction of improvements as the project would be funded, constructed in its entirety, and operational by the projected fall of 2025.

4.0 RELATIONSHIP TO PLANS AND POLICIES

This chapter provides a description of the relationship and compatibility of the Proposed Action to land use plans and policies. This chapter discusses the proposed project's conformance with pertinent State and County land use plans and policies, which include the State Land Use District regulations, State Environmental Policy (Chapter 344, HRS), and the regulations, policies, and goals set forth by the County's General Plan, and Special Management Area (Chapter 205A, HRS).

4.1 STATE OF HAWAIʻI PLANS AND POLICIES

4.1.1 STATE LAND USE DISTRICTS, CHAPTER 205, HRS

Hawaiʻi remains unique in the country with respect to the extent of control that the State exercises in land use regulation. Pursuant to Title 13, Chapter 205 (Land Use Commission), HRS, the State Land Use Commission (LUC) was established and classified all lands in Hawaiʻi into four land use districts: Conservation, Agricultural, Rural and Urban. These regulations are commonly referred to as the "State Land Use Law." Reclassification of these districts for areas less than 15-acres can be approved at the County level; larger modifications must be approved by the Land Use Commission. Permitted uses within the State Land Use Districts are prescribed under Title 13, Chapter 205, HRS, and the State LUC's Administrative Rules (HAR) prescribed under Title 15, Subtitle 3, Chapter 15, Land Use Commission Rules.

As shown in Figure 4.1, the KIS campus is located within the State's Urban District. The Urban District is characterized by "city-like" concentrations of people, structures, and services, and includes vacant lands for future urban development. Permitted uses or activities in the Urban District are thus regulated by the County and discussion of the project's relationship to County plans and zoning code are discussed later. The KIS and project are thus consistent with the Urban District designation.

4.1.2 HAWAIʻI STATE PLAN (HRS §226)

The Hawaiʻi State Plan, HRS Chapter 226, as amended, is a broad policy document that guides all activities, programs and decisions made by State and local agencies by establishing a set of themes, goals, objectives, and policies meant to guide the State's long-term growth and development. The purpose of the plan is to: (1) improve the planning process; (2) increase the effectiveness of government and private actions; (3) improve coordination among agencies and levels of government; (4) provide for the use of Hawaiʻi's resources; and (5) guide the future development of the state. The project's consistency with pertinent objectives and policies are addressed.

Figure 4.1: State Land Use Districts

Table 4.1
Hawai'i State Plan Objectives and Policies

HAWAI'I STATE PLAN, CHAPTER 226, HRS (Key: C = Consistent, I = Inconsistent, N/A = Not Applicable)	C	I	N/A
PART I. OVERALL THEME, GOALS, OBJECTIVES AND POLICIES			
HRS § 226-1: Findings and Purpose			
HRS § 226-2: Definitions			
HRS § 226-3: Overall Theme.			

Hawai'i's people, as both individuals and groups, generally accept and live by a number of principles or values which are an integral part of society. This concept is the unifying theme of the state plan. The following principles or values are established as the overall theme of the Hawai'i state plan:

(1) Individual and family self-sufficiency refers to the rights of people to maintain as much self-reliance as possible. It is an expression of the value of independence, in other words, being able to freely pursue personal interests and goals. Self-sufficiency means that individuals and families can express and maintain their own self-interest so long as that self-interest does not adversely affect the general welfare. Individual freedom and individual achievement are possible only by reason of other people in society, the institutions, arrangements and customs that they maintain, and the rights and responsibilities that they sanction.

(2) Social and economic mobility refers to the right of individuals to choose and to have the opportunities for choice available to them. It is a corollary to self-sufficiency. Social and economic mobility means that opportunities and incentives are available for people to seek out their own levels of social and economic fulfillment.

(3) Community or social well-being is a value that encompasses many things. In essence, it refers to healthy social, economic, and physical environments that benefit the community as a whole. A sense of social responsibility, of caring for others and for the well-being of our community and of participating in social and political life, are important aspects of this concept. It further implies the aloha spirit--attitudes of tolerance, respect, cooperation and unselfish giving, within which Hawai'i's society can progress.

One of the basic functions of our society is to enhance the ability of individuals and groups to pursue their goals freely, to satisfy basic needs and to secure desired socio-economic levels. The elements of choice and mobility within society's legal framework are fundamental rights. Society's role is to encourage conditions within which individuals and groups can approach their desired levels of self-reliance and self-determination. This enables people to gain confidence and self-esteem; citizens contribute more when they possess such qualities in a free and open society.

Government promotes citizen freedom, self-reliance, self-determination, social and civic responsibility and goals achievement by keeping order, by increasing cooperation among many diverse individuals and groups, and by fostering social and civic responsibilities that affect the general welfare. The greater the number and activities of individuals and groups, the more complex government's role becomes. The function of government, however, is to assist citizens in attaining their goals. Government provides for meaningful participation by the people in decision-making and for effective access to authority as well as an equitable sharing of benefits. Citizens have a responsibility to work with their government to contribute to society's improvement. They must also conduct their activities within an agreed-upon legal system that protects human rights.

Discussion: The proposed project is consistent with the State Plan's guiding principles and values. These principles and values concern individual and family self-sufficiency; social and economic mobility; and community or social wellbeing. The project supports these principles and values as the new administration building would support the school's administrative staff and operations by consolidating them in a new modern building with increased space for meetings, etc. This allows existing administrative office space used within other school buildings to be repurposed for classroom use, etc. improving operating conditions for faculty and students. This has a beneficial effort improving the school's operations and being able to better serve students and educational programs.

HRS § 226-4: State Goals.			
In order to ensure, for present and future generations, those elements of choice and mobility that ensure that individuals and groups may approach their desired levels of self-reliance and self-determination, it shall be the goal of the State to achieve:			
Goals:			
(1) A strong, viable economy, characterized by stability, diversity and growth that enables fulfillment of the needs and expectations of Hawai'i's present and future generations.	**X**		
(2) A desired physical environment, characterized by beauty, cleanliness, quiet, stable natural systems, and uniqueness, that enhances the mental and physical well-being of the people.			**X**
(3) Physical, social and economic well-being, for individuals and families in Hawai'i, that nourishes a sense of community responsibility, of caring and of participation in community life.	**X**		
Discussion: The project's improvements will support the State's goal of achieving a strong, viable economy as it will support KIS operations benefiting students and faculty that would support the long-term stability of the resident population in Maui for future generations. Construction of the project would generate direct and indirect economic benefits to construction workers, manufacturers and other businesses supporting construction. Portions of the additional income provided to workers would be spent within the community benefiting local businesses along with generating increased tax revenues. Supporting KIS operations with the project promotes the State's goal of supporting resident's social and economic well-being, particularly for DOE staff and students.			
HRS § 226-5: Objectives and policies for population.			
(a) Objective: It shall be the objective in planning for the State's population to guide population growth to be consistent with the achievement of physical, economic and social objectives contained in this chapter.			
(b) Policies:			
(1) Manage population growth statewide in a manner that provides increased opportunities for Hawaii's people to pursue their physical, social, and economic aspirations while recognizing the unique needs of each county.			**X**
(2) Encourage an increase in economic activities and employment opportunities on the neighbor islands consistent with community needs and desires.			**X**
(3) Promote increased opportunities for Hawaii's people to pursue their socio-economic aspirations throughout the islands.			**X**
(4) Encourage research activities and public awareness programs to foster an understanding of Hawaii's limited capacity to accommodate population needs and to address concerns resulting from an increase in Hawaii's population.			**X**
(5) Encourage federal actions and coordination among major governmental agencies to promote a more balanced distribution of immigrants among the states, provided that such actions do not prevent the reunion of immediate family members.			**X**
(6) Pursue an increase in federal assistance for states with a greater proportion of foreign immigrants relative to their state's population.			**X**
(7) Plan the development and availability of land and water resources in a coordinated manner so as to provide for the desired levels of growth in each geographic area.			**X**
§226-6 Objectives and policies for the economy--in general.			
(a) Objective: Planning for the State's economy in general shall be directed toward achievement of the following objectives:			
(1) Increased and diversified employment opportunities to achieve full employment, increased income and job choice, and improved living standards for Hawaii's people, while at the same time stimulating the development and expansion of economic activities capitalizing on defense, dual-use, and science and technology assets, particularly on the neighbor islands where employment opportunities may be limited.			**X**
(*2) A steadily growing and diversified economic base that is not overly dependent on a few industries, and includes the development and expansion of industries on the neighbor islands.*			**X**

(b) Policies:			
(1) Promote and encourage entrepreneurship within Hawaii by residents and nonresidents of the State.			**X**
(2) Expand Hawaii's national and international marketing, communication, and organizational ties, to increase the State's capacity to adjust to and capitalize upon economic changes and opportunities occurring outside the State.			**X**
(3) Promote Hawaii as an attractive market for environmentally and socially sound investment activities that benefit Hawaii's people.			**X**
(4) Transform and maintain Hawaii as a place that welcomes and facilitates innovative activity that may lead to commercial opportunities.			**X**
(5) Promote innovative activity that may pose initial risks, but ultimately contribute to the economy of Hawaii.			**X**
(6) Seek broader outlets for new or expanded Hawaii business investments.			**X**
(7) Expand existing markets and penetrate new markets for Hawaii's products and services.			**X**
(8) Assure that the basic economic needs of Hawaii's people are maintained in the event of disruptions in overseas transportation.			**X**
(9) Strive to achieve a level of construction activity responsive to, and consistent with, state growth objectives.	**X**		
(10) Encourage the formation of cooperatives and other favorable marketing arrangements at the local or regional level to assist Hawaii's small scale producers, manufacturers, and distributors.			**X**
(11) Encourage labor-intensive activities that are economically satisfying and which offer opportunities for upward mobility.			**X**
(12) Encourage innovative activities that may not be labor-intensive, but may otherwise contribute to the economy of Hawaii.			**X**
(13) Foster greater cooperation and coordination between the government and private sectors in developing Hawaii's employment and economic growth opportunities.			**X**
(14) Stimulate the development and expansion of economic activities which will benefit areas with substantial or expected employment problems.			**X**
(15) Maintain acceptable working conditions and standards for Hawaii's workers.	**X**		
(16) Provide equal employment opportunities for all segments of Hawaii's population through affirmative action and nondiscrimination measures.			**X**
(17) Stimulate the development and expansion of economic activities capitalizing on defense, dual-use, and science and technology assets, particularly on the neighbor islands where employment opportunities may be limited.			**X**
(18) Encourage businesses that have favorable financial multiplier effects within Hawaii's economy, particularly with respect to emerging industries in science and technology.			**X**
(19) Promote and protect intangible resources in Hawaii, such as scenic beauty and the aloha spirit, which are vital to a healthy economy.			**X**
(20) Increase effective communication between the educational community and the private sector to develop relevant curricula and training programs to meet future employment needs in general, and requirements of new or innovative potential growth industries in particular.	**X**		
(21) Foster a business climate in Hawaii--including attitudes, tax and regulatory policies, and financial and technical assistance programs--that is conducive to the expansion of existing enterprises and the creation and attraction of new business and industry.			**X**
Discussion: The new building construction would support short-term construction activities on Maui supporting the island's economic activity and growth. The new administration building would provide a new modern building to better support administrative staff at KIS and allow for improved operating space at other school buildings benefiting students and faculty. The project benefits faculty and students with from improved facilities and greater space available for classroom use that would support educational programs benefitting the County and future workforce.			

§226-7 Objectives and policies for the economy--agriculture.			
(a) Objective: Planning for the State's economy with regard to agriculture shall be directed towards achievement of the following objectives:			
(1) Viability of Hawaii's sugar and pineapple industries.			**X**
(2) Growth and development of diversified agriculture throughout the State.			**X**
(3) An agriculture industry that continues to constitute a dynamic and essential component of Hawaii's strategic, economic, and social well-being.			**X**
(b) Policies:			
(1) Establish a clear direction for Hawaii's agriculture through stakeholder commitment and advocacy.			**X**
(2) Encourage agriculture by making the best use of natural resources.			**X**
(3) Provide the governor and the legislature with information and options needed for prudent decision-making for the development of agriculture.			**X**
(4) Establish strong relationships between the agricultural and visitor industries for mutual marketing benefits.			**X**
(5) Foster increased public awareness and understanding of the contributions and benefits of agriculture as a major sector of Hawaii's economy.			**X**
(6) Seek the enactment and retention of federal and state legislation that benefits Hawaii's agricultural industries.			**X**
(7) Strengthen diversified agriculture by developing an effective promotion, marketing, and distribution system between Hawaii's food producers and consumers in the State, nation, and world.			**X**
(8) Support research and development activities that strengthen economic productivity in agriculture, stimulate greater efficiency, and enhance the development of new products and agricultural by-products.			**X**
(9) Enhance agricultural growth by providing public incentives and encouraging private initiatives.			**X**
(10) Assure the availability of agriculturally suitable lands with adequate water to accommodate present and future needs.			**X**
(11) Increase the attractiveness and opportunities for an agricultural education and livelihood.			**X**
(12) In addition to the State's priority on food, expand Hawaii's agricultural base by promoting growth and development of flowers, tropical fruits and plants, livestock, feed grains, forestry, food crops, aquaculture, and other potential enterprises.			**X**
(13) Promote economically competitive activities that increase Hawaii's agricultural self-sufficiency, including the increased purchase and use of Hawaii-grown food and food products by residents, businesses, and governmental bodies as defined under section 103D-104.			**X**
(14) Promote and assist in the establishment of sound financial programs for diversified agriculture.			**X**
(15) Institute and support programs and activities to assist the entry of displaced agricultural workers into alternative agricultural or other employment.			**X**
(16) Facilitate the transition of agricultural lands in economically nonfeasible agricultural production to economically viable agricultural uses.			**X**
(17) Perpetuate, promote, and increase use of traditional Hawaiian farming systems, such as the use of loko iʻa, māla, and irrigated loʻi, and growth of traditional Hawaiian crops, such as kalo, ʻuala, and ʻulu.			**X**
(18) Increase and develop small-scale farms.			**X**
§226-8 Objective and policies for the economy--visitor industry.			
(a) Objective: Planning for the State's economy with regard to the visitor industry shall be directed towards the achievement of the objective of a visitor industry that constitutes a major component of steady growth for Hawaii's economy.			

(b) Policies:			
(1) Support and assist in the promotion of Hawaii's visitor attractions and facilities.			**X**
(2) Ensure that visitor industry activities are in keeping with the social, economic, and physical needs and aspirations of Hawaii's people.			**X**
(3) Improve the quality of existing visitor destination areas by utilizing Hawaii's strengths in science and technology.			**X**
(4) Encourage cooperation and coordination between the government and private sectors in developing and maintaining well-designed, adequately serviced visitor industry and related developments which are sensitive to neighboring communities and activities.			**X**
(5) Develop the industry in a manner that will continue to provide new job opportunities and steady employment for Hawaii's people.			**X**
(6) Provide opportunities for Hawaii's people to obtain job training and education that will allow for upward mobility within the visitor industry.			**X**
(7) Foster a recognition of the contribution of the visitor industry to Hawaii's economy and the need to perpetuate the aloha spirit.			**X**
(8) Foster an understanding by visitors of the aloha spirit and of the unique and sensitive character of Hawaii's cultures and values.			**X**
§226-9 Objective and policies for the economy--federal expenditures.			
(a) Objective: Planning for the State's economy with regard to federal expenditures shall be directed towards achievement of the objective of a stable federal investment base as an integral component of Hawaii's economy.			
(b) Policies:			
(1) Encourage the sustained flow of federal expenditures in Hawaii that generates long-term government civilian employment;			**X**
(2) Promote Hawaii's supportive role in national defense, in a manner consistent with Hawaii's social, environmental, and cultural goals by building upon dual-use and defense applications to develop thriving ocean engineering, aerospace research and development, and related dual-use technology sectors in Hawaii's economy;			**X**
(3) Promote the development of federally supported activities in Hawaii that respect statewide economic concerns, are sensitive to community needs, and minimize adverse impacts on Hawaii's environment;			**X**
(4) Increase opportunities for entry and advancement of Hawaii's people into federal government service;			**X**
(5) Promote federal use of local commodities, services, and facilities available in Hawaii;			**X**
(6) Strengthen federal-state-county communication and coordination in all federal activities that affect Hawaii; and			**X**
(7) Pursue the return of federally controlled lands in Hawaii that are not required for either the defense of the nation or for other purposes of national importance, and promote the mutually beneficial exchanges of land between federal agencies, the State, and the counties.			**X**
§226-10 Objective and policies for the economy--potential growth and innovative activities.			
(a) Objective: Planning for the State's economy with regard to potential growth and innovative activities shall be directed towards achievement of the objective of development and expansion of potential growth and innovative activities that serve to increase and diversify Hawaii's economic base.			***X***
(b) Policies:			
(1) Facilitate investment and employment growth in economic activities that have the potential to expand and diversify Hawaii's economy, including but not limited to diversified agriculture, aquaculture, renewable energy development, creative media, health care, and science and technology-based sectors;			**X**
(2) Facilitate investment in innovative activity that may pose risks or be less labor-intensive than other traditional business activity, but if successful, will generate revenue in Hawaii through the export of services or products or substitution of imported services or products;			**X**

(3) Encourage entrepreneurship in innovative activity by academic researchers and instructors who may not have the background, skill, or initial inclination to commercially exploit their discoveries or achievements;			**X**
(4) Recognize that innovative activity is not exclusively dependent upon individuals with advanced formal education, but that many self-taught, motivated individuals are able, willing, sufficiently knowledgeable, and equipped with the attitude necessary to undertake innovative activity;			**X**
(5) Increase the opportunities for investors in innovative activity and talent engaged in innovative activity to personally meet and interact at cultural, art, entertainment, culinary, athletic, or visitor-oriented events without a business focus;			**X**
(6) Expand Hawaii's capacity to attract and service international programs and activities that generate employment for Hawaii's people;			**X**
(7) Enhance and promote Hawaii's role as a center for international relations, trade, finance, services, technology, education, culture, and the arts;			**X**
(8) Accelerate research and development of new energy-related industries based on wind, solar, ocean, underground resources, and solid waste;			**X**
(9) Promote Hawaii's geographic, environmental, social, and technological advantages to attract new or innovative economic activities into the State;			**X**
(10) Provide public incentives and encourage private initiative to attract new or innovative industries that best support Hawaii's social, economic, physical, and environmental objectives;			**X**
(11) Increase research and the development of ocean-related economic activities such as mining, food production, and scientific research;			**X**
(12) Develop, promote, and support research and educational and training programs that will enhance Hawaii's ability to attract and develop economic activities of benefit to Hawaii;	**X**		
(13) Foster a broader public recognition and understanding of the potential benefits of new or innovative growth-oriented industry in Hawaii;			**X**
(14) Encourage the development and implementation of joint federal and state initiatives to attract federal programs and projects that will support Hawaii's social, economic, physical, and environmental objectives;			**X**
(15) Increase research and development of businesses and services in the telecommunications and information industries;			**X**
(16) Foster the research and development of nonfossil fuel and energy efficient modes of transportation; and			**X**
(17) Recognize and promote health care and health care information technology as growth industries.			**X**
Discussion: The new administration building would provide a new modern building to better support administrative staff at KIS and allow for improved operating space at other school buildings benefiting students and faculty. The project benefits faculty and students with from improved facilities and greater space available for classroom use that would support educational programs benefitting the County and future workforce.			
§226-10.5 Objectives and policies for the economy--information industry.			
(a) Objective: Planning for the State's economy with regard to telecommunications and information technology shall be directed toward recognizing that broadband and wireless communication capability and infrastructure are foundations for an innovative economy and positioning Hawaii as a leader in broadband and wireless communications and applications in the Pacific Region.			**X**
(b) Policies:			
(1) Promote efforts to attain the highest speeds of electronic and wireless communication within Hawaii and between Hawaii and the world, and make high speed communication available to all residents and businesses in Hawaii;			**X**

(2) Encourage the continued development and expansion of the telecommunications infrastructure serving Hawaii to accommodate future growth and innovation in Hawaii's economy;			**X**
(3) Facilitate the development of new or innovative business and service ventures in the information industry which will provide employment opportunities for the people of Hawaii;			**X**
(4) Encourage mainland- and foreign-based companies of all sizes, whether information technology-focused or not, to allow their principals, employees, or contractors to live in and work from Hawaii, using technology to communicate with their headquarters, offices, or customers located out-of-state;			**X**
(5) Encourage greater cooperation between the public and private sectors in developing and maintaining a well-designed information industry;			**X**
(6) Ensure that the development of new businesses and services in the industry are in keeping with the social, economic, and physical needs and aspirations of Hawaii's people;			**X**
(7) Provide opportunities for Hawaii's people to obtain job training and education that will allow for upward mobility within the information industry;			**X**
(8) Foster a recognition of the contribution of the information industry to Hawaii's economy; and			**X**
(9) Assist in the promotion of Hawaii as a broker, creator, and processor of information in the Pacific.			**X**
§226-11 Objectives and policies for the physical environment--land-based, shoreline, and marine resources.			
(a) Objective: Planning for the State's physical environment with regard to land-based, shoreline, and marine resources shall be directed towards achievement of the following objectives:			
(1) Prudent use of Hawaii's land-based, shoreline, and marine resources.			**X**
(2) Effective protection of Hawaii's unique and fragile environmental resources.	**X**		
(b) Policies:			
(1) Exercise an overall conservation ethic in the use of Hawaii's natural resources.			**X**
(2) Ensure compatibility between land-based and water-based activities and natural resources and ecological systems.	**X**		
(3) Take into account the physical attributes of areas when planning and designing activities and facilities.	**X**		
(4) Manage natural resources and environs to encourage their beneficial and multiple use without generating costly or irreparable environmental damage.			**X**
(5) Consider multiple uses in watershed areas, provided such uses do not detrimentally affect water quality and recharge functions.			**X**
(6) Encourage the protection of rare or endangered plant and animal species and habitats native to Hawaii.			**X**
(7) Provide public incentives that encourage private actions to protect significant natural resources from degradation or unnecessary depletion.			**X**
(8) Pursue compatible relationships among activities, facilities, and natural resources.			**X**
(9) Promote increased accessibility and prudent use of inland and shoreline areas for public recreational, educational, and scientific purposes.	**X**		
Discussion: The project is consistent with noted objectives and policies. Based upon the results of this assessment, the project would not negatively impact Hawai'i's unique environmental resources and BMPs implemented would further ensure minimization of effects. Project improvements would be compatible with land and water-based activities since KIS is located well inland and away from the shoreline and would not negatively impact natural resources or ecological systems as discussed in various sections of this document. The physical attributes of the project site were considered in selecting the site and designing improvements. Such efforts would minimize changes to the project site and ensure utility improvements are accommodated by the school's existing infrastructure. The new administration building would support the prudent use of the small site for educational purposes and activities occurring at KIS.			

§226-12 Objective and policies for the physical environment--scenic, natural beauty, and historic resources.			
(a) Objective: Planning for the State's physical environment shall be directed towards achievement of the objective of enhancement of Hawaii's scenic assets, natural beauty, and multi-cultural/historical resources.			
(b) Policies:			
(1) Promote the preservation and restoration of significant natural and historic resources.	**X**		
(2) Provide incentives to maintain and enhance historic, cultural, and scenic amenities.			**X**
(3) Promote the preservation of views and vistas to enhance the visual and aesthetic enjoyment of mountains, ocean, scenic landscapes, and other natural features.	**X**		
(4) Protect those special areas, structures, and elements that are an integral and functional part of Hawaii's ethnic and cultural heritage.	**X**		
(5) Encourage the design of developments and activities that complement the natural beauty of the islands.			**X**
Discussion: The project is consistent with this objective and pertinent policies because improvements would not negatively impact significant natural and historic resources as discussed in various sections of this document. There are no historic sites present on the site. The new building would not negatively impact important and scenic views or visual resources being located within the KIS campus. Improvements would not impact special areas that are an integral part of Hawai'i's ethnic and cultural heritage.			
§226-13 Objectives and policies for the physical environment--land, air, and water quality.			
(a) Objective: Planning for the State's physical environment with regard to land, air, and water quality shall be directed towards achievement of the following objectives:			
(1) Maintenance and pursuit of improved quality in Hawaii's land, air, and water resources.	**X**		
(2) Greater public awareness and appreciation of Hawaii's environmental resources.			**X**
(b) Policies:			
(1) Foster educational activities that promote a better understanding of Hawaii's limited environmental resources.			**X**
(2) Promote the proper management of Hawaii's land and water resources.			**X**
(3) Promote effective measures to achieve desired quality in Hawaii's surface, ground, and coastal waters.			**X**
(4) Encourage actions to maintain or improve aural and air quality levels to enhance the health and well-being of Hawaii's people.			**X**
(5) Reduce the threat to life and property from erosion, flooding, tsunamis, hurricanes, earthquakes, volcanic eruptions, and other natural or man-induced hazards and disasters.			**X**
(6) Encourage design and construction practices that enhance the physical qualities of Hawaii's communities.	**X**		
(7) Encourage urban developments in close proximity to existing services and facilities.	**X**		
(8) Foster recognition of the importance and value of the land, air, and water resources to Hawaii's people, their cultures and visitors.			**X**
Discussion: The project is consistent with this objective and pertinent policies because improvements would not negatively impact natural resources, coastal waters or other water resources, air quality, or likely be impacted by natural hazards as discussed in various sections of this document. The new building is situated in close proximity to existing services and facilities and would connect to existing infrastructure within the KIS campus. The project would enhance the physical facilities support the school's operations and educational programs by having a new building to better serve their administrative staff.			
§226-14 Objective and policies for facility systems--in general.			
(a) Objective: Planning for the State's facility systems in general shall be directed towards achievement of the objective of water, transportation, sustainable development, climate change adaptation, sea level rise adaptation, waste disposal, and energy and telecommunication systems that support statewide social, economic, and physical objectives.			
(b) Policies:			
(1) Accommodate the needs of Hawaii's people through coordination of facility systems and capital improvement priorities in consonance with state and county plans.	**X**		

(2) Encourage flexibility in the design and development of facility systems to promote prudent use of resources and accommodate changing public demands and priorities.	**X**		
(3) Ensure that required facility systems can be supported within resource capacities and at reasonable cost to the user.	**X**		
(4) Pursue alternative methods of financing programs and projects and cost-saving techniques in the planning, construction, and maintenance of facility systems.			**X**
(5) Identify existing and planned state facilities that are vulnerable to sea level rise, flooding impacts, and natural hazards.	**X**		
(6) Assess a range of options to mitigate the impacts of sea level rise to existing and planned state facilities.			**X**
Discussion: The project will accommodate the needs of KIS faculty and students by improving school facilities, and this project is appropriately funded and consistent with state and county plans as discussed in this section. The DOE has coordinated with KIS and their facility planning staff to provide this new building to meet school objectives and needs. The project's design will promote prudent use of resources and budgeting priorities while accommodating the needs of KIS administrative staff. The new building would be constructed at a reasonable cost and would be supported by existing school infrastructure and utilities serving the campus without exceeding capacity as discussed in sections of this document. The KIS campus location and design of the new building would not be vulnerable to nor contribute to sea level rise, flooding, and natural hazards in the area as discussed in various sections.			
§226-15 Objectives and policies for facility systems--solid and liquid wastes.			
(a) Objective: Planning for the State's facility systems with regard to solid and liquid wastes shall be directed towards the achievement of the following objectives:			**X**
(1) Maintenance of basic public health and sanitation standards relating to treatment and disposal of solid and liquid wastes.			**X**
(2) Provision of adequate sewerage facilities for physical and economic activities that alleviate problems in housing, employment, mobility, and other areas.			**X**
(b) Policies:			
(1) Encourage the adequate development of sewerage facilities that complement planned growth.			**X**
(2) Promote reuse and recycling to reduce solid and liquid wastes and employ a conservation ethic.			**X**
(3) Promote research to develop more efficient and economical treatment and disposal of solid and liquid wastes.			**X**
§226-16 Objective and policies for facility systems--water.			
(a) Objective: Planning for the State's facility systems with regard to water shall be directed towards achievement of the objective of the provision of water to adequately accommodate domestic, agricultural, commercial, industrial, recreational, and other needs within resource capacities.			
(b) Policies:			
(1) Coordinate development of land use activities with existing and potential water supply.			**X**
(2) Support research and development of alternative methods to meet future water requirements well in advance of anticipated needs.			**X**
(3) Reclaim and encourage the productive use of runoff water and wastewater discharges.			**X**
(4) Assist in improving the quality, efficiency, service, and storage capabilities of water systems for domestic and agricultural use.			**X**
(5) Support water supply services to areas experiencing critical water problems.			**X**
(6) Promote water conservation programs and practices in government, private industry, and the general public to help ensure adequate water to meet long-term needs.			**X**
§226-17 Objectives and policies for facility systems--transportation.			
(a) Objective: Planning for the State's facility systems with regard to transportation shall be directed towards the achievement of the following objectives:			
(1) An integrated multi-modal transportation system that services statewide needs and promotes the efficient, economical, safe, and convenient movement of people and goods.			**X**

(2) A statewide transportation system that is consistent with and will accommodate planned growth objectives throughout the State.			**X**
(b) Policies:			
(1) Design, program, and develop a multi-modal system in conformance with desired growth and physical development as stated in this chapter;			**X**
(2) Coordinate state, county, federal, and private transportation activities and programs toward the achievement of statewide objectives;			**X**
(3) Encourage a reasonable distribution of financial responsibilities for transportation among participating governmental and private parties;			**X**
(4) Provide for improved accessibility to shipping, docking, and storage facilities;			**X**
(5) Promote a reasonable level and variety of mass transportation services that adequately meet statewide and community needs;			**X**
(6) Encourage transportation systems that serve to accommodate present and future development needs of communities;			**X**
(7) Encourage a variety of carriers to offer increased opportunities and advantages to interisland movement of people and goods;			**X**
(8) Increase the capacities of airport and harbor systems and support facilities to effectively accommodate transshipment and storage needs;			**X**
(9) Encourage the development of transportation systems and programs which would assist statewide economic growth and diversification;			**X**
(10) Encourage the design and development of transportation systems sensitive to the needs of affected communities and the quality of Hawaii's natural environment;			**X**
(11) Encourage safe and convenient use of low-cost, energy-efficient, non-polluting means of transportation;			**X**
(12) Coordinate intergovernmental land use and transportation planning activities to ensure the timely delivery of supporting transportation infrastructure in order to accommodate planned growth objectives; and			**X**
(13) Encourage diversification of transportation modes and infrastructure to promote alternate fuels and energy efficiency.			**X**
§226-18 Objectives and policies for facility systems--energy.			
(a) Objective: Planning for the State's facility systems with regard to energy shall be directed toward the achievement of the following objectives, giving due consideration to all:			
(1) Dependable, efficient, and economical statewide energy systems capable of supporting the needs of the people;			**X**
(2) Increased energy security and self-sufficiency through the reduction and ultimate elimination of Hawaii's dependence on imported fuels for electrical generation and ground transportation;			**X**
(3) Greater diversification of energy generation in the face of threats to Hawaii's energy supplies and systems;			**X**
(4) Reduction, avoidance, or sequestration of greenhouse gas emissions from energy supply and use; and			**X**
(5) Utility models that make the social and financial interests of Hawaii's utility customers a priority.			**X**
(b) To achieve the energy objectives, it shall be the policy of this State to ensure the short- and long-term provision of adequate, reasonably priced, and dependable energy services to accommodate demand.			
(b) Policies:			
(1) Support research and development as well as promote the use of renewable energy sources;			**X**
(2) Ensure that the combination of energy supplies and energy-saving systems is sufficient to support the demands of growth;			**X**

(3) Base decisions of least-cost supply-side and demand-side energy resource options on a comparison of their total costs and benefits when a least-cost is determined by a reasonably comprehensive, quantitative, and qualitative accounting of their long-term, direct and indirect economic, environmental, social, cultural, and public health costs and benefits;			**X**
(4) Promote all cost-effective conservation of power and fuel supplies through measures, including: *(A) Development of cost-effective demand-side management programs;* *(B) Education;* *(C) Adoption of energy-efficient practices and technologies; and* *(D) Increasing energy efficiency and decreasing energy use in public infrastructure;*			**X**
(5) Ensure, to the extent that new supply-side resources are needed, that the development or expansion of energy systems uses the least-cost energy supply option and maximizes efficient technologies;			**X**
(6) Support research, development, demonstration, and use of energy efficiency, load management, and other demand-side management programs, practices, and technologies;			**X**
(7) Promote alternate fuels and transportation energy efficiency;			**X**
(8) Support actions that reduce, avoid, or sequester greenhouse gases in utility, transportation, and industrial sector applications;			**X**
(9) Support actions that reduce, avoid, or sequester Hawaii's greenhouse gas emissions through agriculture and forestry initiatives;			**X**
(10) Provide priority handling and processing for all state and county permits required for renewable energy projects;			**X**
(11) Ensure that liquefied natural gas is used only as a cost-effective transitional, limited-term replacement of petroleum for electricity generation and does not impede the development and use of other cost-effective renewable energy sources; and			**X**
(12) Promote the development of indigenous geothermal energy resources that are located on public trust land as an affordable and reliable source of firm power for Hawaii.			**X**
§226-18.5 Objectives and policies for facility systems--telecommunications.			
(a) Planning for the State's telecommunications facility systems shall be directed towards the achievement of dependable, efficient, and economical statewide telecommunications systems capable of supporting the needs of the people.			
(b) To achieve the telecommunications objective, it shall be the policy of this State to ensure the provision of adequate, reasonably priced, and dependable telecommunications services to accommodate demand.			
(b) Policies:			
(1) Facilitate research and development of telecommunications systems and resources;			**X**
(2) Encourage public and private sector efforts to develop means for adequate, ongoing telecommunications planning;			**X**
(3) Promote efficient management and use of existing telecommunications systems and services; and			**X**
(4) Facilitate the development of education and training of telecommunications personnel.			**X**
§226-19 Objectives and policies for socio-cultural advancement--housing.			
(a) Objective: Planning for the State's socio-cultural advancement with regard to housing shall be directed toward the achievement of the following objectives:			
(1) Greater opportunities for Hawaii's people to secure reasonably priced, safe, sanitary, and livable homes, located in suitable environments that satisfactorily accommodate the needs and desires of families and individuals, through collaboration and cooperation between government and nonprofit and for-profit developers to ensure that more rental and for sale affordable housing is made available to extremely low-, very low-, lower-, moderate-, and above moderate-income segments of Hawaii's population.			**X**
(2) The orderly development of residential areas sensitive to community needs and other land uses.			**X**
(3) The development and provision of affordable rental housing by the State to meet the housing needs of Hawaii's people.			**X**

(b) Policies:			
(1) Effectively accommodate the housing needs of Hawaii's people.			**X**
(2) Stimulate and promote feasible approaches that increase affordable rental and for sale housing choices for extremely low-, very low-, lower-, moderate-, and above moderate-income households.			**X**
(3) Increase homeownership and rental opportunities and choices in terms of quality, location, cost, densities, style, and size of housing.			**X**
(4) Promote appropriate improvement, rehabilitation, and maintenance of existing rental and for sale housing units and residential areas.			**X**
(5) Promote design and location of housing developments taking into account the physical setting, accessibility to public facilities and services, and other concerns of existing communities and surrounding areas.			**X**
(6) Facilitate the use of available vacant, developable, and underutilized urban lands for housing.			**X**
(7) Foster a variety of lifestyles traditional to Hawaii through the design and maintenance of neighborhoods that reflect the culture and values of the community.			**X**
(8) Promote research and development of methods to reduce the cost of housing construction in Hawaii.			**X**
§226-20 Objectives and policies for socio-cultural advancement--health.			
(a) Objective: Planning for the State's socio-cultural advancement with regard to health shall be directed towards achievement of the following objectives:			
(1) Fulfillment of basic individual health needs of the general public.			**X**
(2) Maintenance of sanitary and environmentally healthful conditions in Hawaii's communities.			**X**
(3) Elimination of health disparities by identifying and addressing social determinants of health.			**X**
(b) Policies:			
(1) Provide adequate and accessible services and facilities for prevention and treatment of physical and mental health problems, including substance abuse.			**X**
(2) Encourage improved cooperation among public and private sectors in the provision of health care to accommodate the total health needs of individuals throughout the State.			**X**
(3) Encourage public and private efforts to develop and promote statewide and local strategies to reduce health care and related insurance costs.			**X**
(4) Foster an awareness of the need for personal health maintenance and preventive health care through education and other measures.			**X**
(5) Provide programs, services, and activities that ensure environmentally healthful and sanitary conditions.			**X**
(6) Improve the State's capabilities in preventing contamination by pesticides and other potentially hazardous substances through increased coordination, education, monitoring, and enforcement.			**X**
(7) Prioritize programs, services, interventions, and activities that address identified social determinants of health to improve native Hawaiian health and well-being consistent with the United States Congress' declaration of policy as codified in title 42 United States Code section 11702, and to reduce health disparities of disproportionately affected demographics, including native Hawaiians, other Pacific Islanders, and Filipinos. The prioritization of affected demographic groups other than native Hawaiians may be reviewed every ten years and revised based on the best available epidemiological and public health data.			**X**
§226-21 Objective and policies for socio-cultural advancement--education.			
(a) Objective: Planning for the State's socio-cultural advancement with regard to education shall be directed towards achievement of the objective of the provision of a variety of educational opportunities to enable individuals to fulfill their needs, responsibilities, and aspirations.			

(b) Policies:			
(1) Support educational programs and activities that enhance personal development, physical fitness, recreation, and cultural pursuits of all groups.	**X**		
(2) Ensure the provision of adequate and accessible educational services and facilities that are designed to meet individual and community needs.	**X**		
(3) Provide appropriate educational opportunities for groups with special needs.			**X**
(4) Promote educational programs which enhance understanding of Hawaii's cultural heritage.			**X**
(5) Provide higher educational opportunities that enable Hawaii's people to adapt to changing employment demands.			**X**
(6) Assist individuals, especially those experiencing critical employment problems or barriers, or undergoing employment transitions, by providing appropriate employment training programs and other related educational opportunities.			**X**
(7) Promote programs and activities that facilitate the acquisition of basic skills, such as reading, writing, computing, listening, speaking, and reasoning.	**X**		
(8) Emphasize quality educational programs in Hawaii's institutions to promote academic excellence.	**X**		
(9) Support research programs and activities that enhance the education programs of the State.			**X**
Discussion: The project would support many of these policies related to education. The new administration building would support administrative staff that would subsequently support faculty and students providing overall benefits to educational programs and school activities. The consolidation of administrative space within the new building allows faculty to make better use of classroom space at other buildings from the increased space created that could be used to support educational programs for students in developing basic skills. The overall benefits from the project would help support KIS faculty in promoting academic excellence.			
§226-22 Objective and policies for socio-cultural advancement--social services.			
(a) Objective: Planning for the State's socio-cultural advancement with regard to social services shall be directed towards the achievement of the objective of improved public and private social services and activities that enable individuals, families, and groups to become more self-reliant and confident to improve their well-being.			
(b) Policies:			
(1) Assist individuals, especially those in need of attaining a minimally adequate standard of living and those confronted by social and economic hardship conditions, through social services and activities within the State's fiscal capacities.			**X**
(2) Promote coordination and integrative approaches among public and private agencies and programs to jointly address social problems that will enable individuals, families, and groups to deal effectively with social problems and to enhance their participation in society.			**X**
(3) Facilitate the adjustment of new residents, especially recently arrived immigrants, into Hawaii's communities.			**X**
(4) Promote alternatives to institutional care in the provision of long-term care for elder and disabled populations.			**X**
(5) Support public and private efforts to prevent domestic abuse and child molestation, and assist victims of abuse and neglect.			**X**
(6) Promote programs which assist people in need of family planning services to enable them to meet their needs.			**X**
§226-23 Objective and policies for socio-cultural advancement--leisure.			
(a) Objective: Planning for the State's socio-cultural advancement with regard to leisure shall be directed towards the achievement of the objective of the adequate provision of resources to accommodate diverse cultural, artistic, and recreational needs for present and future generations.			
(b) Policies:			
(1) Foster and preserve Hawaii's multi-cultural heritage through supportive cultural, artistic, recreational, and humanities-oriented programs and activities.			**X**

(2) Provide a wide range of activities and facilities to fulfill the cultural, artistic, and recreational needs of all diverse and special groups effectively and efficiently.			**X**
(3) Enhance the enjoyment of recreational experiences through safety and security measures, educational opportunities, and improved facility design and maintenance.			**X**
(4) Promote the recreational and educational potential of natural resources having scenic, open space, cultural, historical, geological, or biological values while ensuring that their inherent values are preserved.			**X**
(5) Ensure opportunities for everyone to use and enjoy Hawaii's recreational resources.			**X**
(6) Assure the availability of sufficient resources to provide for future cultural, artistic, and recreational needs.			**X**
(7) Provide adequate and accessible physical fitness programs to promote the physical and mental well-being of Hawaii's people.			**X**
(8) Increase opportunities for appreciation and participation in the creative arts, including the literary, theatrical, visual, musical, folk, and traditional art forms.			**X**
(9) Encourage the development of creative expression in the artistic disciplines to enable all segments of Hawaii's population to participate in the creative arts.			**X**
(10) Assure adequate access to significant natural and cultural resources in public ownership.			**X**
§226-24 Objective and policies for socio-cultural advancement--individual rights and personal well-being.			
(a) Objective: Planning for the State's socio-cultural advancement with regard to individual rights and personal well-being shall be directed towards achievement of the objective of increased opportunities and protection of individual rights to enable individuals to fulfill their socio-economic needs and aspirations.			
(b) Policies:			
(1) Provide effective services and activities that protect individuals from criminal acts and unfair practices and that alleviate the consequences of criminal acts in order to foster a safe and secure environment.			**X**
(2) Uphold and protect the national and state constitutional rights of every individual.			**X**
(3) Assure access to, and availability of, legal assistance, consumer protection, and other public services which strive to attain social justice.			**X**
(4) Ensure equal opportunities for individual participation in society.			**X**
§226-25 Objective and policies for socio-cultural advancement--culture.			
(a) Objectives: Planning for the State's socio-cultural advancement with regard to culture shall be directed toward the achievement of the objective of enhancement of cultural identities, traditions, values, customs, and arts of Hawaii's people.			
(b) Policies:			
(1) Foster increased knowledge and understanding of Hawaii's ethnic and cultural heritages and the history of Hawaii.			**X**
(2) Support activities and conditions that promote cultural values, customs, and arts that enrich the lifestyles of Hawaii's people and which are sensitive and responsive to family and community needs.			**X**
(3) Encourage increased awareness of the effects of proposed public and private actions on the integrity and quality of cultural and community lifestyles in Hawaii.			**X**
(4) Encourage the essence of the aloha spirit in people's daily activities to promote harmonious relationships among Hawaii's people and visitors.			**X**
§226-26 Objectives and policies for socio-cultural advancement--public safety.			
(a) Objective: Planning for the State's socio-cultural advancement with regard to public safety shall be directed towards the achievement of the following objectives:			
(1) Assurance of public safety and adequate protection of life and property for all people.			**X**
(2) Optimum organizational readiness and capability in all phases of emergency management to maintain the strength, resources, and social and economic well-being of the			**X**

community in the event of civil disruptions, wars, natural disasters, and other major disturbances.			
(3) Promotion of a sense of community responsibility for the welfare and safety of Hawaii's people.			**X**
(b) Policies:			
(1) Ensure that public safety programs are effective and responsive to community needs.			**X**
(2) Encourage increased community awareness and participation in public safety programs.			**X**
(c) To further achieve public safety objectives related to criminal justice, it shall be the policy of this State to:			
(1) Support criminal justice programs aimed at preventing and curtailing criminal activities.			**X**
(2) Develop a coordinated, systematic approach to criminal justice administration among all criminal justice agencies.			**X**
(3) Provide a range of correctional resources which may include facilities and alternatives to traditional incarceration in order to address the varied security needs of the community and successfully reintegrate offenders into the community.			**X**
(d) To further achieve public safety objectives related to emergency management, it shall be the policy of this State to:			**X**
(1) Ensure that responsible organizations are in a proper state of readiness to respond to major war-related, natural, or technological disasters and civil disturbances at all times.			**X**
(2) Enhance the coordination between emergency management programs throughout the State.			**X**
§226-27 Objectives and policies for socio-cultural advancement--government.			
(a) Objective: Planning the State's socio-cultural advancement with regard to government shall be directed towards the achievement of the following objectives:			
(1) Efficient, effective, and responsive government services at all levels in the State.	**X**		
(2) Fiscal integrity, responsibility, and efficiency in the state government and county governments.			**X**
(b) Policies:			
(1) Provide for necessary public goods and services not assumed by the private sector.	**X**		
(2) Pursue an openness and responsiveness in government that permits the flow of public information, interaction, and response.			**X**
(3) Minimize the size of government to that necessary to be effective.			**X**
(4) Stimulate the responsibility in citizens to productively participate in government for a better Hawaii.			**X**
(5) Assure that government attitudes, actions, and services are sensitive to community needs and concerns.			**X**
(6) Provide for a balanced fiscal budget.			**X**
(7) Improve the fiscal budgeting and management system of the State.			**X**
(8) Promote the consolidation of state and county governmental functions to increase the effective and efficient delivery of government programs and services and to eliminate duplicative services wherever feasible.			**X**
Discussion: The new administration building would support the staff and faculty in providing efficient and effective educational programs for students at KIS. The new building responds to the need to provide improved facilities to support government services at this school. It is an improvement not provided by the public sector, but will benefit students and the community.			

4.1.3 CHAPTER 344, HRS, STATE ENVIRONMENTAL POLICY

Chapter 344, HRS outlines the State's Environmental Policy that establishes State guidelines for encouraging a balanced and productive relationship between people and the environment. The following discusses the project's conformance and consistency with the pertinent goals, policies, and guidelines described under Chapter 344, HRS, Hawai'i State Environmental Policy.

Section 344-3(1). *Conserve the natural resources, so that land, water, mineral, visual, air and other natural resources are protected by controlling pollution, by preserving or augmenting natural resources, and by safeguarding the State's unique natural environmental characteristics in a manner which will foster and promote the general welfare, create and maintain conditions under which humanity and nature can exist in productive harmony, and fulfill the social, economic, and other requirements of the people of Hawaii.*

Discussion: The project would not result in an adverse impact on the State's natural resources and environmental characteristics. The project would inevitably involve some temporary land-disturbing activities that could cause minor short-term effects and nuisances. BMPs as described in Section 3.1.3 will be adhered to during excavation and grading activities to minimize soil loss and erosion and thus not impact surface and coastal water. The project would not have adverse impacts on land or water as no major geographical features or surface water bodies are present on the site. The new building would increase impervious area within the small site, but an underground infiltration system using subdrains is planned to infiltrate the increase in runoff volume generated. This would allow surface runoff to maintain predevelopment conditions within the area and minimize effects on the school's existing drainage system. Water demand generated from operations occurring at the new building should generally remain the same for the overall campus since the project just involves consolidating existing administration staff.

The surrounding air quality would remain at existing levels upon completion of the project as traffic conditions from the project should remain satisfactory and is not expected to result in excessive congestion that would lead to high vehicular emissions. The project would alter existing important or scenic views or impact views of scenic resources since the building would be located within the KIS campus. The project would not negatively impact seabirds or other important mammals as BMPs and other minimization measures identified would address potential effects.

Section 344-3(2). *Enhance the quality of life by:*

- ***(B)*** *Creating opportunities for the residents of Hawai'i to improve their quality of life through diverse economic activities which are stable and in balance with the physical and social environments;*
- ***(C)*** *Establishing communities which provide a sense of identity, wise use of land, efficient transportation, and aesthetic and social satisfaction in harmony with the natural environment which is uniquely Hawaiian;*

Discussion: The project would all existing administrative staff and operations to be consolidated in a new modern building to better support school operations. This would allow existing space used in other buildings to be converted to support faculty and students such as increasing classroom space or better supporting educational programs. This improves the quality of life for both school staff along with students while supporting educational programs. Construction of the new building on the proposed site reflects the wise use of land within the school campus and it would not negatively impact the environment as discussed in several sections of this document.

Guidelines, Chapter 344, HRS, State Environmental Policy

The State Environmental Policy includes guidelines to facilitate attainment of policy objectives involving the conservation of Hawai'i's natural resources and the enhancement of the quality of life of the state's peoples. The following discussion evaluates the project's consistency with pertinent guidelines of the State Environmental Policy.

(9). *Education and culture.*

(B) *Encourage both formal and informal environmental education to all age groups.*

Discussion: The proposed project aligns with the education and culture guidelines of the State Environmental Policy. The project support formal environmental education to all students at KIS with increased classroom or other operational space created by consolidating administrative staff and operations within the new building. This improvement for the school would supporting educational programs for students.,

(10). *Citizen participation.*

(B) *Provide for expanding citizen participation in the decision-making process so it continually embraces more citizens and more issues.*

Discussion: Chapter 5 includes a discussion on the efforts undertaken to provide the community and agencies with an opportunity to review and comment on this project consistent with this policy. Pre-assessment consultation letters have been distributed to various stakeholders soliciting their input in the preparation of this document. The publication and processing of this environmental document allows for information to be distributed to the public and for public participation to address comments and concerns associated with the project.

4.1.4 STATE COASTAL ZONE MANAGEMENT PROGRAM, CHAPTER 205A, HRS

The Hawai'i Coastal Zone Management (CZM) Program was created in 1977 through the passage of HRS Chapter 205A. Administered by the State Office of Planning and Sustainable Development, HRS 205A and the CZM Program is intended to be an effective and coordinated program that systematized Federal, State, and County agency efforts in the comprehensive management of Hawai'i's coastal resources. Each of the four counties, including Maui County, are responsible for administering the program locally through Special Management Area (SMA) permits and shoreline setback provisions in their respective counties. The SMA was established to regulate any use, activity, or operation of all "developments" along the shoreline to preserve, protect, and where possible, to restore

the natural resources of the coastal zone. SMA boundaries are delineated for each county as areas where development needs to be regulated to protect coastal resources.

The overall objectives of the CZM Program are to provide the public with coastal recreational opportunities, protect historic resources, protect scenic and open space resources, protect coastal ecosystems, provide facilities for economic development, reduce coastal hazards and manage development. The coastal zone encompasses the entire state, as there is no point of land more than 30 miles from the ocean, and what happens on land would most likely impact the quality of coastal waters and marine resources.

The project is not located within the SMA boundary and is thus not subject to the County's SMA regulations. However, a discussion of the project's consistency with the CZM objectives and policies is provided below.

§205A – COASTAL ZONE MANAGEMENT PROGRAM: OBJECTIVES & POLICIES

1.) RECREATIONAL RESOURCES

Objectives:

Provide coastal recreational opportunities accessible to the public.

Policies:

(A) Improve coordination and funding of coastal recreational planning and management; and
(B) Provide adequate, accessible and diverse recreational opportunities in the coastal zone management area by:

(i) Protecting coastal resources uniquely suited for recreational activities that cannot be provided in other areas;
(ii) Requiring replacement of coastal resources having significant recreational value, including but not limited to surfing sites, fishponds and sand beaches, when such resources will be unavoidably damaged by development; or requiring reasonable monetary compensation to the state for recreation when replacement is not feasible or desirable;
(iii) Providing and managing adequate public access, consistent with conservation of natural resources, to and along shorelines with recreational value;
(iv) Providing an adequate supply of shoreline parks and other recreational facilities suitable for public recreation;
(v) Ensuring public recreational uses of county, state, and federally owned or controlled shoreline lands and waters having recreational value consistent with public safety standards and conservation of natural resources;
(vi) Adopting water quality standards and regulating point and nonpoint sources of pollution to protect, and where feasible, restore the recreational value of coastal waters;
(vii) Developing new shoreline recreational opportunities, where appropriate, such as artificial lagoons, artificial beaches, and artificial reefs for surfing and fishing; and
(viii) Encouraging reasonable dedication of shoreline areas with recreational value for public use as part of discretionary approvals or permits by the land use commission, board of land and natural resources, and county authorities; and crediting that dedication against the requirements of section 46-6.

DISCUSSION: The Project does not conflict with this objective and these policies. The project does not include any coastal development or activities, therefore, there are no anticipated impacts to coastal recreational resources or access to the shoreline.

2.) HISTORIC RESOURCES

Objectives:

Protect, preserve, and, where desirable, restore those natural and manmade historic and prehistoric resources in the coastal zone management area that are significant in Hawaiian and American history and culture.

Policies:

(A) Identify and analyze significant archaeological resources;

(B) Maximize information retention through preservation of remains and artifacts or salvage operations; and

(C) Support state goals for protection, restoration, interpretation, and display of historic resources.

DISCUSSION: The project would not affect any historic sites or cultural resources because there are none present within the small 0.55-acre site within the KIS campus. An archaeological study conducted confirmed these results that are discussed in Section 3.8. The Project would thus be consistent with these objectives and policies for historic resources.

3.) SCENIC AND OPEN SPACE RESOURCES

Objectives:

Protect, preserve, and, where desirable, restore or improve the quality of coastal scenic and open space resources.

Policies:

(A) Identify valued scenic resources in the coastal zone management area;

(B) Ensure that new developments are compatible with their visual environment by designing and locating those developments to minimize the alteration of natural landforms and existing public views to and along the shoreline;

(C) Preserve, maintain, and, where desirable, improve and restore shoreline open space and scenic resources; and

(D) Encourage those developments that are not coastal dependent to locate in inland areas.

DISCUSSION: The project is not anticipated to have any significant adverse impacts on scenic viewplanes or resources. The project site is located within the KIS campus and no public viewing locations or scenic resources are present on that site or surrounding school campus. The site is not located near the shoreline and the project is not coastal dependent and located well inland in Makawao.

4.) COASTAL ECOSYSTEMS

Objectives:

Protect valuable coastal ecosystems, including reefs, beaches, and coastal dunes, from disruption and minimize adverse impacts on all coastal ecosystems.

Policies:

(A) Exercise an overall conservation ethic, and practice stewardship in the protection, use, and development of marine and coastal resources;

(B) Improve the technical basis for natural resource management;
(C) Preserve valuable coastal ecosystems of significant biological or economic importance, including reefs, beaches, and dunes;
(D) Minimize disruption or degradation of coastal water ecosystems by effective regulation of stream diversions, channelization, and similar land and water uses, recognizing competing water needs; and
(E) Promote water quantity and quality planning and management practices that reflect the tolerance of fresh water and marine ecosystems and maintain and enhance water quality through the development and implementation of point and nonpoint source water pollution control measures;

DISCUSSION: The Project would be consistent with the objective and these policies for coastal ecosystems. The project site is not located near the coastline or in an area with significant natural resources since it is within the KIS campus. BMPs discussed in several sections would be utilized during construction to minimize impacts to groundwater, surface waters, and coastal waters.

5.) ECONOMIC USES
Objectives:
Provide public or private facilities and improvements important to the State's economy in suitable locations.
Policies:
(A) Concentrate coastal dependent development in appropriate areas;
(B) Ensure that coastal dependent development and coastal related development are located, designed, and constructed to minimize exposure to coastal hazards and adverse social, visual, and environmental impacts in the coastal zone management area; and
(C) Direct the location and expansion of coastal development to areas designated and used for that development and permit reasonable long-term growth at those areas, and permit coastal development outside of designated areas when:
(i) Use of designated locations is not feasible;
(ii) Adverse environmental effects and risks from coastal hazards are minimized; and
(iii) The development is important to the State's economy.

DISCUSSION: The project does not conflict with this objective and these policies. The improvements do not include any coastal development or activities, therefore, there are no anticipated impacts to coastal recreational resources or access to the shoreline.

6.) COASTAL HAZARDS
Objectives:
Reduce hazard to life and property from coastal hazards.
Policies:
(A) Develop and communicate adequate information about the risks of coastal hazards;
(B) Control development, including planning and zoning control, in areas subject to coastal hazards;
(C) Ensure that developments comply with requirements of the National Flood Insurance Program; and

(D) Prevent coastal flooding from inland projects;

DISCUSSION: The project is not a coastal development being located well inland in Makawao and school activities would not be impacted from coastal hazards. However, the design of the project would conform to all regulatory requirements to ensure adequate and proper storm drainage and erosion control to the surrounding properties. As explained in Chapter 3.7, according to FEMA's Digital Flood Insurance Rate Maps (DFIRM), the project site is in the Zone X which is an area outside the 500-year flood zone, with minimal risk of flooding. The KIS property is located well outside of the 3.2-feet Sea Level Rise Exposure Area.

7.) MANAGING DEVELOPMENT

Objectives:

Improve the development review process, communication, and public participation in the management of coastal resources and hazards.

Policies:

(A) Use, implement, and enforce existing law effectively to the maximum extent possible in managing present and future coastal zone development;
(B) Facilitate timely processing of applications for development permits and resolve overlapping or conflicting permit requirements; and
(C) Communicate the potential short and long-term impacts of proposed significant coastal developments early in their life cycle and in terms understandable to the public to facilitate public participation in the planning and review process;

DISCUSSION: The Project would not include any coastal developments or activities and is not expected to directly impact coastal resources. BMPs as mentioned in Chapter 3.0 would be utilized to minimize impacts due to stormwater runoff and erosion during construction. The project would also obtain all necessary development permits and approvals listed in Table 1. The Environmental Assessment review process required public notification and allows for public agencies to respond with any comments or concerns about the project.

8.) PUBLIC PARTICIPATION

Objectives:

Stimulate public awareness, education, and participation in coastal management. Policies:
(A) Promote public involvement in coastal zone management processes;
(B) Disseminate information on coastal management issues by means of educational materials, published reports, staff contact, and public workshops for persons and organizations concerned with coastal issues, developments, and government activities; and
(C) Organize workshops, policy dialogues, and site-specific mediations to respond to coastal issues and conflicts.

DISCUSSION: The project would not include any coastal developments or activities and is not expected to directly impact coastal resources. The Environmental Assessment review process required public notification and allowed public agencies to respond with any comments or concerns about the project.

9.) BEACH PROTECTION

Objectives:

(A) Protect beaches and coastal dunes for:

(i) Public use and recreation;

(ii) The benefit of coastal ecosystems; and

(iii) Use as natural buffers against coastal hazards; and

(B) Coordinate and fund beach management and protection.

Policies:

(A) Locate new structures inland from the shoreline setback to conserve open space, minimize interference with natural shoreline processes, and minimize loss of improvements due to erosion;

(B) Prohibit construction of private shoreline hardening structures, including seawalls and revetments, at sites having sand beaches and at sites where shoreline hardening structures interfere with existing recreational and waterline activities;

(C) Minimize the construction of public shoreline hardening structures, including seawalls and revetments, at sites having sand beaches and at sites where shoreline hardening structures interfere with existing recreational and waterline activities;

(D) Minimize grading of and damage to coastal dunes;

(E) Prohibit private property owners from creating a public nuisance by inducing or cultivating the private property owner's vegetation in a beach transit corridor; and

(F) Prohibit private property owners from creating a public nuisance by allowing the private property owner's unmaintained vegetation to interfere or encroach upon a beach transit corridor.

DISCUSSION: The project would not include any coastal developments, any shoreline hardening, or activities and is not expected to directly impact coastal resources and interfere with natural shoreline processes. As mentioned in Chapter 3.1, there are no significant coastal sand dunes known to be within the project site. Therefore, the project is consistent with this objective and these policies for beach protection.

10.) MARINE AND COASTAL RESOURCES

Objectives:

(A) Promote the protection, use, and development of marine and coastal resources to assure their sustainability.

Policies:

(A) Ensure that the use and development of marine and coastal resources are ecologically and environmentally sound and economically beneficial;

(B) Coordinate the management of marine and coastal resources and activities to improve effectiveness and efficiency;

(C) Assert and articulate the interests of the State as a partner with federal agencies in the sound management of ocean resources within the United States exclusive economic zone;

(D) Promote research, study, and understanding of ocean and coastal processes, impacts of climate change and sea level rise, marine life, and other ocean resources to acquire and inventory information necessary to understand how coastal development activities relate to and impact ocean and coastal resources; and
(E) Encourage research and development of new, innovative technologies for exploring, using, or protecting marine and coastal resources.

DISCUSSION: The project does not include the use of marine or coastal resources and is not expected to directly impact coastal resources. This document addressed the affected environment and analyzed the likely environmental impact from the project which would not have significant effects on the environment. BMPs discussed would be utilized to minimize impacts to marine and coastal resources due to construction-generated stormwater runoff and erosion. Therefore, the project does not conflict with this objective and these policies for marine and coastal resources.

4.2 COUNTY OF MAUI PLANS AND POLICIES

4.2.1 MAUI COUNTY GENERAL PLAN 2030

The Maui County General Plan 2030 is a long-term comprehensive blueprint for the physical, economic, environmental, and cultural identity of the County, which includes the islands of Maui, Molokaʻi, Lānaʻi, and Kahoʻolawe. The General Plan consists of the Countywide Policy Plan that act as an over-arching values statement and provides a policy framework for the Island and Community Plans. Last updated in 2010, the Countywide Policy Plan provides a vision statement, along with broad goals, objectives, policies, and implementing actions for each core theme which together portray the desired direction for the County's future to the year 2030. The Project is aligned with the following core themes from the Countywide Policy Plan of the Maui County General Plan 2030:

A. Protect the Natural Environment

B. Preserve Local Cultures and Traditions

C. Improve Education

F. Strengthen the Local Economy

J. Promote Sustainable Land Use and Growth Management

K. Strive for Good Governance

The goals, objectives, policies, and actions that are pertinent to the Project from each applicable core theme in the County Wide Policy Plan are provided below:

A.) PROTECT THE NATURAL ENVIRONMENT

GOAL: *Maui County's natural environment and distinctive open spaces will be preserved, managed, and cared for in perpetuity.*

OBJECTIVE 1: *Improve the opportunity to experience the natural beauty and native biodiversity of the islands for present and future generations.*

Policies:

(G) Preserve and provide ongoing care for important scenic vistas, view planes, landscapes, and open-space resources.

OBJECTIVE 2: *Improve the quality of environmentally sensitive, locally valued natural resources and native ecology of each island.*

Policies:

(E) Mitigate the negative effects of upland uses on coastal wetlands, marine life, and coral reefs.

(F) Strengthen coastal-zone management, re-naturalization of shorelines, where possible, and filtration or treatment of urban and agricultural runoff.

Implementing Actions:

a. Develop regulations to minimize runoff of pollutants into nearshore waters and reduce nonpoint and point source pollution.

OBJECTIVE 3: *Improve the quality of environmentally sensitive, locally valued natural resources and native ecology of each island.*

Policies:

(A) Preserve and protect natural resources with significant scenic, economic, cultural, environmental, or recreational value.

(C) Evaluate development to assess potential short-term and long-term impacts on land, air, aquatic, and marine environments.

(D) Improve efforts to mitigate and plan for the impact of natural disasters, human-influenced emergencies, and global warming.

(F) Reduce air, noise, light, land, and water pollution, and reduce Maui County's contribution to global climate change.

(I) Educate the construction and landscape industries and property owners about the use of best management practices to prevent erosion and nonpoint source pollution.

Implementing Actions:

a. Document, record, and monitor existing conditions, populations, and locations of flora and fauna communities.

b. Implement Federal and State policies that require a reduction of greenhouse-gas emissions.

DISCUSSION: The project would ensure that the island's environment is protected in the short-term and long-term. BMPs as mentioned throughout Chapter 3.0 would be utilized to minimize the likely short-term impacts to the island's sensitive land and coastal

ecosystems, flora and fauna, water systems, natural resources, air quality, climate, and significant viewplanes.

B.) PRESERVE LOCAL CULTURES AND TRADITIONS

GOAL: *Maui County will foster a spirit of pono and protect, perpetuate, and reinvigorate its residents' multi-cultural values and traditions to ensure that current and future generations will enjoy the benefits of their rich island heritage.*

OBJECTIVE 1: *Perpetuate the Hawaiian culture as a vital force in the lives of residents.*

Policies:

(A) Protect and preserve access to mountain, ocean, and island resources for traditional Hawaiian cultural practices.

(B) Prohibit inappropriate development of cultural lands and sites that are important for traditional Hawaiian cultural practices, and establish mandates for the special protection of these lands in perpetuity.

(F) Recognize and preserve the unique natural and cultural characteristics of each ahupua`a or district.

OBJECTIVE 4: *Preserve and restore significant historic architecture, structures, cultural sites, cultural districts, and cultural landscapes.*

Policies:

(D) Protect and preserve lands that are culturally or historically significant.

DISCUSSION: There are no historic sites present on the project site within the school nor any cultural resources. Project improvements and BMPs would further ensure that construction activities minimize any potential effects on cultural resources in the surrounding area.

C.) IMPROVE EDUCATION

GOAL: *Residents will have access to lifelong formal and informal educational options enabling them to realize their ambitions.*

OBJECTIVE 1: *Encourage the State to attract and retain school administrators and educators of the highest quality.*

Policies:

(B) Encourage the State to ensure teachers will have the teaching tools and support staff needed to provide students with an excellent education.
(C) Explore Maui County district- and school-based decision making in public education.

OBJECTIVE 2: *Provide nurturing learning environments that build skills for the 21st century.*

Policies:

(A) Expand professional-development opportunities in disciplines that support the economic-development goals of Maui County.
(B) Plan for demographic, social, and technological changes in a timely manner.
(D) Promote development of neighborhood schools and educational centers.

(F) Support coordination between land use and school-facility planning agencies.
(G) Encourage the upgrade and ongoing maintenance of public-school facilities.
(K) Design school and park facilities in proximity to residential areas.
(N) Encourage alternative learning and educational opportunities.

OBJECTIVE 3: *Provide all residents with educational opportunities that can help them better understand themselves and their surroundings and allow them to realize their ambitions.*

Policies:

(B) Broaden the use of technology and telecommunications to improve educational opportunities throughout the County.
(G) Ensure teaching of the arts to all ages.
(H) Expand and develop vocational learning opportunities by establishing trade schools.

DISCUSSION: The project would support these objectives and policies related to education. The new administration building would allow all existing administrative staff and operations to be consolidated in a new modern building to better support school operations with improved telecommunication equipment and facilities. This would allow existing space used in other buildings to be converted to support faculty and students such as increasing classroom space or better supporting educational programs.

F.) STRENGTHEN THE LOCAL ECONOMY

GOAL: *Maui County's economy will be diverse, sustainable, and supportive of community values.*

OBJECTIVE 1: *Promote an economic climate that will encourage diversification of the County's economic base and a sustainable rate of economic growth.*

Policies:

(B) Promote lifelong education, career development, and technical training for existing and emerging industries.
(C) Invest in infrastructure, facilities, and programs that foster economic diversification.
(E) Support programs that assist industries to retain and attract more local labor and facilitate the creation of jobs that offer a living wage.

DISCUSSION: Construction activities would result in a short-term positive economic impact for Maui due to construction-related spending and employment. Additionally, direct construction activities would result in an overall short-term positive economy impact by stimulating indirect and inducted employment within other industries on the island.

4.2.2 MAKAWAO-PUKALANI-KULA COMMUNITY PLAN (1996)

The Makawo-Pukalani-Kula Community Plan is one of nine Maui County decennial community plans adopted by the Maui County Council. It is in the lower tier of Maui County planning documents, and is mutually supporting of the goals, objectives, policies, and implementing actions of the Hawai'i State Plan, Maui County General Plan, and Maui Island

Plan. Last adopted in 1996, this Community Plan is a requirement of Maui County Code and is a more geographically focused long-term plan. The Community Plan reflects current and future conditions in the Makawo-Pukalani-Kula region and presents specific planning goals, objectives, policies, and implementation considerations to guide decision-making to the year 2010. Discussion of the project's consistency with pertinent objectives and policies are provided.

LAND USE

GOAL: *The maintenance and enhancement of Upcountry's unique and diverse rural land use character with sensitivity to existing land use patterns, natural resource values, and economic and social needs of the region's residents.*

OBJECTIVES & POLICIES:
16. Recognize the four (4) semi-urban centers of Makawao Town, Pukalani, Hali`imaile and Waiakoa Village. Within them, support the following land use and circulation patterns:
a. Within Makawao Town:
- *Public use to support public and quasi-public needs.*

DISCUSSION: The project would support this objective and policy related to public use since the improvement is for KIS. The new administration building would allow all existing administrative staff and operations to be consolidated in a new modern building to better support school operations. This would allow existing space used in other buildings to be converted to support faculty and students such as increasing classroom space or better supporting educational programs.

ENVIRONMENT

GOAL: *Protection of Upcountry's natural resources and environment as a means of preserving and enhancing the region's unique beauty, serenity, ecology, and productivity, in order that future generations may enjoy and appreciate an environment of equal or higher quality.*

OBJECTIVES & POLICIES:
3. Recognize and protect rare, endangered and unique biological resources in the region.
6. Preserve the existing visual, noise, odor and air quality characteristics found in agricultural/rural neighborhoods of the Makawao-Pukalani-Kula region.

DISCUSSION: The project would ensure that the island's environment is protected in the short-term and long-term as discussed in sections of this document. The project would not affect rare, endangered, or unique biological resources as none are present on the site or immediate vicinity within the school campus. BMPs and other minimization measures discussed in sections would be utilized to minimize short-term construction-related impacts on other species that may be present in the general vicinity. The new administration building would not negatively impact visual resources or views, noise or air

quality. BMPs would be implement to address short-term construction-related effects to minimize fugitive dust, erosion, etc.

CULTURAL RESOURCES

GOAL: *The identification, preservation and where appropriate, restoration and promotion of cultural resources and practices which reflect the rich and diverse heritage found in the Upcountry region.*

OBJECTIVES & POLICIES:
1. *Recognize the importance of historically and archaeologically sensitive sites, both known and undiscovered, and encourage their preservation and protection.*

DISCUSSION: There are no historic sites present on the project site within the school nor any cultural resources based upon an archaeological study conducted. Project improvements and BMPs would further ensure that construction activities minimize any potential effects on historic or cultural resources in the surrounding area.

SOCIAL INFRASTRUCTURE

GOAL: *An efficient and responsive system of people-oriented public services which enable residents to live a safe, healthy and enjoyable lifestyle, and offer the youth and adults of the region opportunities and choices for self and community improvement.*

EDUCATION AND FAMILY SERVICES
OBJECTIVES & POLICIES:
4. Provide adequate school facilities to ensure an effective, efficient and comfortable learning environment for the region's children.

DISCUSSION: The project would support this d policy because the new administration building would allow all existing administrative staff and operations to be consolidated in a new modern building to better support school operations. This would allow existing space used in other buildings to be converted to support faculty and students such as increasing classroom space or better supporting educational programs.

4.2.3 MAUI COUNTY CODE, TITLE 19 – ZONING

The Maui County Code (MCC) is a compilation of ordinances adopted by Maui County. Title 19 of the MCC contains the zoning code which defines the purpose and intent of specific zones and specifies permitted uses and activities, extent of site development, and property design restrictions in each zone. The project site within the KIS campus property is zoned P-1 Public/Quasi-Public as shown on Figure 4.2.

Consistency with Zoning District Permitted Uses

Under Section 19.31.020 Permitted Uses of the MCC, the public/quasi-public zoning district provides for public, nonprofit, or quasi-public uses. Schools such as middle schools are

listed as a principal permitted use and structures. Therefore, the project constructing a new administration building within KIS would be consistent with this zoning district.

Consistency with Development Standards

The County's development standards for P-1 Public/Quasi-Public are specified under Section 19.31.050 and parking requirements are under Section 19.36B.020 of the MCC zoning code. Table 4.2 lists these development standards and shows the consistency of the project with these standards.

The KIS campus is 10.4-acres in size and the new administration building would be located within the campus property and thus meeting lot area, width requirements, and yard setbacks. The building would meet the 40-foot height limit for this school campus. The new building is not classrooms intended for students; therefore, no additional off-street parking is required. It would allow consolidation of existing administrative staff and operations into the new building.

Figure 4.2: County of Maui Zoning

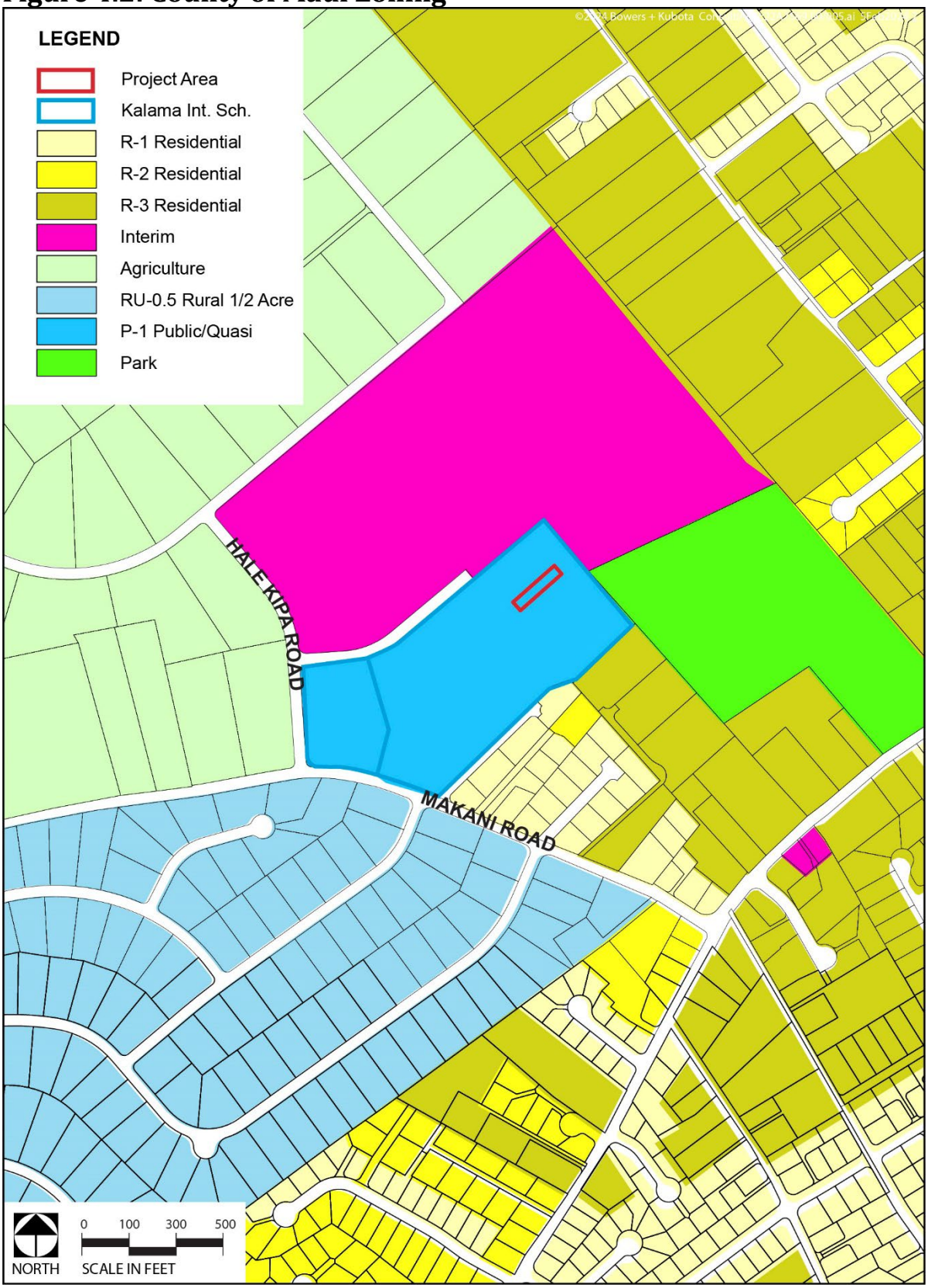


Table 4.2
Proposed Action's Conformance to the County's P-1 Public/Quasi-Public Development Standards

Maui County Code §19.31.050		
Development Standards. Height Regulations, and Setback Lines		
	P-1 Public/Quasi-Public District	**Proposed Action**
Minimum lot area (square feet)	15,000	Project meets requirement
Minimum lot width (in feet)	75	Lot meets requirement
Maximum building height	40 feet	New building will meet this height limit
Minimum front setback	15	Meets requirement
Minimum side and rear setback	10	Meets requirement
Maui County Code §19.36B.020		
Designated Number of Off-Street Parking and Loading		
School, educational institution, general education, specialized education	1 per classroom if all students are under 16 years old; 8 per classroom if any student is at least 16 years of age	Not applicable since new administration building is not classrooms

5.0 AGENCIES AND ORGANIZATIONS CONSULTED

As a requirement of HAR §11-200.1-18 (2019), this chapter identifies agencies, citizen groups, and individuals solicited in the preparation of the Draft EA. Consultation with various government agencies, officials, and community members were undertaken to obtain information on agency requirements and comments about potential community issues so that they could be addressed in this Draft EA. Consultation involved distributing a pre-assessment consultation letter with supporting documentation to various parties requesting their written comments. A listing of those parties consulted is below and those providing written responses have been identified with an "✓" symbol. Copies of written comments received and responses to these comments are included in Appendix A.

Federal Agencies

✓ U.S. Fish and Wildlife Service
U.S. Environmental Protection Agency Region 9 (Pacific Southwest)
✓ U.S. Army Corps of Engineers, Honolulu District

State of Hawaii

Department of Land and Natural Resources (DLNR)
✓ DLNR, Aha Moku Advisory Committee
DLNR, Board of Land and Natural Resources
✓ DLNR, Division of Forestry and Wildlife
✓ DLNR, Engineering Division
DLNR, State Historic Preservation Division
Department of Transportation (HDOT)
HDOT Director
HDOT Highways
Office of Hawaiian Affairs

County of Maui Agencies

Department of Environmental Management
✓ Department of Fire and Public Safety
✓ Department of Housing and Human Concerns
Department of Parks and Recreation
Department of Planning
Department of Public Works
Department of Transportation
✓ Department of Water Supply
Police Department

Elected Officials

Senator Lynn DeCoite (Senate District 7)
Representative Kyle Yamashita (House District 12)
Mayor Richard T. Bissen, Jr.
Council Chair Alice Lee

Utility Companies

✓ Hawaiian Electric Company
Hawaii Gas Company
✓ Hawaiian Telcom
Spectrum/Charter Communications

Community

Principal Tami Haili (Kalama Intermediate School)

6.0 FINDINGS AND DETERMINATION

As a requirement of HAR §11-200.1-18 (2019), this chapter provides a description of the proposing agency's anticipated determination for the Project, including findings and reasons supporting the determination.

6.1 ANTICIPATED DETERMINATION

The proposing agency's analysis of the Proposed Action's primary, secondary, cumulative, and short and long-term effects on the environment would result in a determination of either: 1.) the action would have a significant impact on the environment and an Environmental Impact Statement Preparation Notice should be issued, or 2.) the action would not have a significant impact on the environment warranting a Finding of No Significant Impact (FONSI).

To support an anticipated determination, the project's effects on the environment are discussed in relation to the 13 Significance Criteria prescribed under the State Department of Health's Administrative Rules Title 11, Chapter 200.1. The results of the assessments conducted in the following Chapter 6.2 determine that the proposed project should not have a substantial adverse effect on the surrounding environment.

As a result, the Proposing Agency's anticipated determination is that the Proposed Action would **not** have a significant impact on the environment based on the criteria set forth in HAR §11-200.1-13, and therefore, through its review and evaluation of the overall impacts discussed in the DEA finds an anticipated FONSI determination is proposed for this Project.

6.2 SIGNIFICANCE CRITERIA FINDINGS

The Project is assessed against the thirteen (13) "significance criteria" set forth in HAR §11-200.1-13 to evaluate whether the Project as a whole would have a significant impact on the environment and to develop the anticipated determination of a FONSI. A discussion of the Proposed Action with each significance criteria is discussed below:

(1) Irrevocably commits a natural, cultural, or historic resource.

The project would not result in the irrevocable commitment to loss or destruction of any natural, cultural, or historic resources as discussed in the various sections of this document. Chapter 3 discussed the project's effect on natural resources and discussed how no unique or significant natural resources are present within the project site or would be significantly impacted by proposed improvements.

A flora and fauna survey determined that no federally or state-listed endangered flora or fauna were present on the site, and concluded that the project would not have a significant, adverse impact on native vegetation or wildlife. Minimization measures were proposed to further ensure that construction activities would not harm endangered or threatened birds of mammals that may be present in the general region.

There are no historic sites of cultural resources present within the project site that would be impacted. Appropriate best management practices and other minimization measures would also be incorporated into design plans that are reviewed by pertinent agencies before being implemented during construction activities as discussed in this document. Such measures would address stormwater runoff, fugitive dust, noise, etc. from construction activities.

(2) Curtail the range of beneficial uses of the environment.

The project is not expected to curtail the range of beneficial uses of the environment as the new administration building would not adversely impact environmental resources in and around the area or restrict existing uses occurring on surrounding properties. The KIS school is currently a beneficial public use of the property, and the new administration would support that public use improving school operations and supporting educational programs and faculty.

(3) Conflict with the State's environmental policies or long-term environmental goals established by law.

The project would not conflict with environmental policies in the Hawai'i State Plan, State Land Use Law, and Coastal Zone Management Program along with County plans and regulations. The State's long-term environmental policies or goals and guidelines as expressed in Chapter 344, HRS would be supported by the project. A discussion of the project's consistency with such applicable guidelines was provided in Chapter 4 of this document.

(4) Have a substantial adverse effect on the economic welfare, social welfare, or cultural practices of the community and State.

The project would not have a substantial adverse effect on the economic or social welfare of the community and state, or cultural practices based upon the results discussed in various sections of this document. The project would have a minor short-term economic benefit from expenditure of funds supporting construction of the project that would have a minor benefit to businesses on Maui from the expenditure of worker income. As discussed in Section 3.15, the project would not negatively impact the social environment or change the character of Makawao. The new administration building would be constructed within the KIS campus and not involve changes to the resident or visitor population in Makawao. The project site is not used for cultural practices or access to sites used for cultural practices, and the site does not include any cultural resources. The site is a small (0.55 acre) landscaped area within the school campus and there are no historic sites present.

(5) Have a substantial adverse effect on public health.

The project would not have a substantial adverse effect on public health as discussed in pertinent sections of this document, such as air quality. The project only involves constructing a new administration building within the KIS campus to improve their operations. Construction activities would involve temporary effects associated with noise, some fugitive dust, and possible storm water runoff. However, these short-term impacts would be minimized to the extent practicable through the utilization of BMPs and compliance with State and local regulations.

(6) Involve adverse secondary impacts, such as population changes or effects on public facilities.

The project should not have any substantial secondary impacts on the social environment, infrastructure facilities, and public facilities as discussed in this document. Improvements do not involve adding residential housing or visitor accommodation units that may generate population changes and increase demands on public facilities or have secondary effects.

(7) Involve a substantial degradation of environmental quality.

The project would not result in a substantial degradation to the quality of the surrounding environment. As discussed in several sections of this document, the new administration building is intended to support a public purpose and need by consolidating administrative operations within KIS that would open additional space within other buildings to support educational programs, classes, etc. Proposed improvements should not have significant or adverse short- or long-term impacts on the natural environment and various minimization measures have been identified to address short-term construction-related effects. Best management practices will also be included in the design plans reviewed by agencies for implementation by the contractor during construction activities.

(8) Be individually limited but cumulatively have substantial adverse effect upon the environment or involves a commitment for larger actions.

This project would not have a substantial adverse cumulative effect on the environment as discussed in this document nor does it commit to larger actions. There are no other known developments in the immediate area that are reasonably anticipated to be completed within the 2025 study year and contribute to a cumulative impact on the surrounding environment or infrastructure facilities. The discussion of impacts presented within this document has provided sufficient information to assist in addressing the applicable cumulative effects associated with the project.

(9) Have a substantial adverse effect on a rare, threatened, or endangered species, or its habitat.

The project would not have a substantial adverse effect on endangered, threatened, or rare species or resources present on the property. No avian or mammalian species currently protected or proposed for protection under either the federal or State of Hawai‘i endangered species programs were detected within the project site during a biological survey conducted. The site is currently an open grassed area within the school campus the was likely disrupted and improved with landscaping during the campus’ initial construction. Various avoidance and minimization measures were identified in respective sections to address potential short-term effects for other species that may occur in the area. Therefore, inclusion of such measures in the design plans would ensure that endangered, threatened, or rare species would not be substantially affected by the project.

(10) Have a substantial adverse effect on air or water quality or ambient noise levels.

The project should not have a substantial adverse effect on air, water quality, or ambient noise levels as discussed in respective sections of this document. Impacts associated with these factors would be limited to short-term construction activities. However, such impacts are expected to be minor and include minimization measures to address them such as with the implementation of best management practices. Construction activities would also be subject to applicable State and County regulations and permit conditions.

(11) Have a substantial adverse effect on or be likely to suffer damage by being located in an environmentally sensitive area such as a flood plain, tsunami zone, sea level rise exposure area, beach, erosion-prone area, geologically hazardous land, estuary, fresh water, or coastal waters.

The project site is not located within a FEMA special flood hazard zone, tsunami zone, sea level rise exposure area, beach, erosion-prone area, geologically hazardous land, or within any water body. No water bodies are in or surrounding the site being situated at a high elevation within upcountry Makawao. Therefore, the project would not have a substantial adverse effect on or be likely to suffer damage by being in an environmentally sensitive area.

(12) Have a substantial adverse effect on scenic vistas and viewplanes, during day or night, identified in County or State plans or studies.

The project would not have a substantial adverse effect on scenic vistas and viewplanes as the new administration building would not be located within an area identified as a scenic view plane or on a site that contains significant geographical features. The project site within the KIS campus and public access is restricted to school-related use only. Therefore, there are public viewing areas located on the site that would be impacted by the project.

(13) Require substantial energy consumption or emit substantial greenhouse gases.

The project will slightly increase energy consumption with the new building, but this increase is not expected to require substantial energy consumption or emit greenhouse gases.

7.0 REFERENCES

County of Maui (COM). 2023. Maui County Code. Available online at: https://library.municode.com/hi/county_of_maui/codes/code_of_ordinances?nodeId=TIT19ZO_ARTIVREMIAR_CH19.62FLHAAR_19.62.060STDE

County of Maui (COM). 2012. Chapter 1 Population. Maui Island Plan. Available online at: https://www.mauicounty.gov/DocumentCenter/View/84676/Chapter-1?bidId=

Department of Business, Economic Development and Tourism (DBEDT). 2022. Census: 2022 State Population Estimates. Available online at: https://census.hawaii.gov/main/2022-state-pe/

Department of Health – State of Hawaii (DOH). 2019. Fugitive Dust Fact Sheet. Available online at: https://health.hawaii.gov/cab/files/2019/04/Hawaii-Fugitive-Dust-Fact-Sheet-April-2019.pdf

Department of Health – State of Hawaii (DOH). 2017. Noise Reference Manual. Maui County Edition. Available online at: https://health.hawaii.gov/irhb/files/2013/07/noiserefmaui.pdf

Department of Health – State of Hawaii (DOH). 2015. Federal and State Ambient Air Quality Standards. Available online at: https://health.hawaii.gov/cab/files/2013/05/naaqs_nov_2015.pdf

Department of Water Supply – County of Maui (DWS). 2023. Source Protection. Water Resources and Planning. Available online at: https://waterresources.mauicounty.gov/35/Source-Protection

Department of Water Supply – County of Maui (DWS). 2018. Title 16, Chapter 201, County of Maui Administrative Rules. Available online at: https://www.mauicounty.gov/DocumentCenter/View/112031/Title-16-Chapter-201-Rules-Relating-to-Water-Service

Department of Water Supply – County of Maui (DWS). 2016. Central Maui Region (Central and Wailuku Aquifer Sectors). Available online at: https://www.mauicounty.gov/DocumentCenter/View/104315/Central-South-Wailuku-Region-Description

Department of Water Supply – County of Maui (DWS). 2011. Maui Wellhead Protection Program Public Meeting. Available online at: https://www.mauicounty.gov/DocumentCenter/View/15402/SWAP-DWS-WHP_ordinance_62011?bidId=

Federal Emergency Management Agency. 2023. Flood Maps. Available online at: https://www.fema.gov/flood-maps

Federal Emergency Management Agency (FEMA). 2018. FEMA Flood Maps and Zones Explained. Available online at: https://www.fema.gov/blog/fema-flood-maps-and-zones-explained

Hawaii Administrative Rules (HAR). 2015. Hawaii Administrative Rules Title 11 Department of Health Chapter 46 Community Noise Control. Available online at: https://health.hawaii.gov/opppd/files/2015/06/11-46.pdf

Hawaii State Climate Commission (HSCC). 2022. Sea Level Rise Vulnerability and Adaption Report. Prepared by the State of Hawaii Department of Land and Natural Resources Office Conservation and Costal Lands. Available online at: https://climate.hawaii.gov/wp-content/uploads/2023/01/OCCL23-Sea-Level-Rise-Report-FY22-1.pdf

Hawaii Emergency Management Agency (HIEMA). 2020. Tsunami Evacuation Zones. Available online at: https://dod.hawaii.gov/hiema/public-resources/tsunami-evacuation-zone/

Hawaiian Electric Company (HECO). 2023. Power Facts. Available online at: https://www.hawaiianelectric.com/documents/about_us/company_facts/power_facts.pdf

McKinley Community School for Adults (MCSA). 2020. WASC Self-Study Report: February 24-27, 2020. Available online at: https://mcsahawaii.org/ourpages/auto/2019/11/21/45974495/MCSA%20WASC%202020%20Self%20Study%20Report.pdf?rnd=1578963082996

National Oceanic and Atmospheric Administration (NOAA). 2020. Hurricanes. Available online at: https://www.noaa.gov/education/resource-collections/weather-atmosphere/hurricanes

National Oceanic and Atmospheric Administration (NOAA). 2019. NOAA Tsunami Program. Available online at: https://www.tsunami.noaa.gov/

State of Hawaii (SOH). 2023. Climate Change Portal. Available online at: https://climate.hawaii.gov/hi-facts/

SWCA Environmental Consultants (SWCA). 2023. Relocation of DOE Maui District Mowers and Community School for Adults Flora and Fauna Survey Report. Prepared for Bowers + Kubota Consulting.

University of Hawaii at Manoa (UHM) – Geography Department. 2014. Climate of Hawaii Interactive Map. Available online at: http://climate.geography.hawaii.edu/interactivemap.html

U.S. Census Bureau (USCB). 2021. American Community Survey 5-year Estimates. Retrieved from Census Reporter Profile page for Census Tract 311.05, Maui, HI http://censusreporter.org/profiles/14000US15009031105-census-tract-31105-maui-hi/

U.S. Census Bureau (USCB). 2020. 2020 Census of Population and Housing, updated every 10 years. Available online at: https://www.census.gov/quickfacts/fact/table/kahuluicdphawaii,mauicountyhawaii/POP010220#POP010220

U.S. Department of Agriculture (USDA) - Natural Resources Conservation Service. 2019. Web Soil Survey. Available online at: https://websoilsurvey.nrcs.usda.gov/app/

U.S. Environmental Protection Agency (EPA) – Office of Air Quality Planning and Standards. 2023. Air Now. Available online at: https://www.airnow.gov/state/?name=hawaii

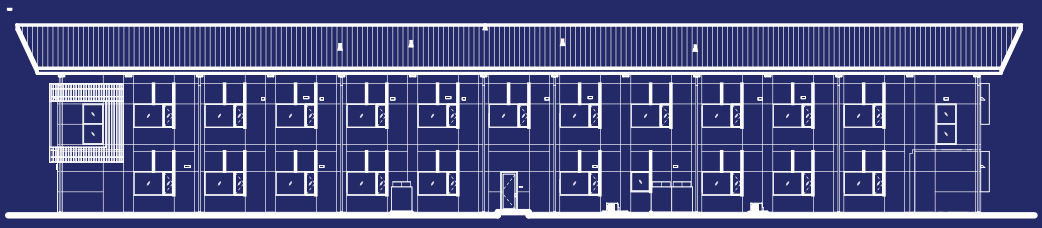
U.S. Geological Survey (USGS). 2023a. Geology and History of Haleakalā ā. Available online at: https://www.usgs.gov/volcanoes/Haleakalā %C4%81/science/geology-and-history-Haleakalā

U.S. Geological Survey (USGS). 2023b. Active Volcanoes of Hawaii. Hawaiian Volcano Observatory. Available online at: https://www.usgs.gov/observatories/hvo/active-volcanoes-hawaii

U.S. Geological Survey (USGS). 2021. Geologic Map of the State of Hawaii – Island of Maui. Scientific Investigations Map 3143. Sheet 4 of 5. Available online at: https://pubs.usgs.gov/sim/3143/sim3143_sheet4.pdf

U.S. Geological Survey (USGS). 2017. Hawaiian Volcano Observatory, Available online at: https://www.usgs.gov/observatories/hawaiian-volcano-observatory/about-earthquakes-hawaii

U.S. Geological Survey (USGS). 2016. Ground Water in Hawaii. Available online at: https://dlnr.hawaii.gov/mk/files/2016/11/B.17w-USGS-Ground-Water-in-Hawaii.pdf#:~:text=Ground%20water%20is%20one%20of%20Hawaii%E2%80%99s%20most%20important,percent%20of%20all%20freshwater%20used%20in%20the%20State
.



APPENDICES

APPENDIX A

Pre-Assessment Consultation

RICHARD T. BISSEN, JR.
Mayor

KEKUHAUPIO R. AKANA
Managing Director

JOHN STUFFLEBEAN, P.E.
Director

JAMES A. LANDGRAF
Deputy Director

DEPARTMENT OF WATER SUPPLY
COUNTY OF MAUI
200 SOUTH HIGH STREET
WAILUKU, MAUI, HAWAI'I 96793
http://www.mauicounty.gov/water

August 11, 2023

Matthew Fernandez
Bowers + Kubota Consulting, Inc.
via e-mail to: mfernandez@bowersandkubota.com

Subject: Pre-Assessment Consultation for Environmental Assessment
Kalama Intermediate School Modular Administration Building Project
TMK (2) 2-4-032:109, Makawao, Maui, Hawaii

Dear Matthew Fernandez:

Thank you for the opportunity to review and comment on the subject project, which involves construction of a new modular administration building at the Samuel E. Kalama Intermediate School (KIS) campus.

The subject property is currently served by an existing 3/4-inch water meter, a 1-inch water meter, four (4) 1-1/2-inch water meters, and a 2-inch water meter located within the subject property. Department records also indicate that the property's fire protection system is being serviced by an existing 8-inch double check detector assembly (DCDA).

If DWS is a reviewing agency on plumbing or building permits, requirements for permit approval will be made at that time. Requirements could include, but are not limited to, the following:

1. Upgrade of the existing water service lateral(s) and meter box/manhole(s), of the meter(s) which are serving the proposed permitted building(s), to current DWS standards.

2. Although the DCDA assembly is an approved backflow prevention device, the existing transponder and corresponding meter register will need to be upgraded to the current standards.

3. Water system improvements may be required based upon the Department of Fire and Public Safety's review of the building permit application.

4. Per the DWS letter dated July 8, 2021 to the Hawaii Department of Education, approval of future permits and/or requests for additional water service for facilities with manifolded

water meters may not be approved by our Department unless the issue of the manifolded meters is resolved. Therefore, the unmirrored manifolded meters will need to be addressed.

Please be aware that if the permit necessitates a water meter upgrade or an additional water meter based on water fixture units and irrigation, the current regulations do not allow the department to accept requests for additional water service in areas served by the department's Upcountry Water System.

If you have any questions, please contact Ashley Laroya of our Engineering Division at (808) 270-7338 or at Ashley.Laroya@co.maui.hi.us.

Sincerely,

JASE MIYABUCHI, P.E.
Civil Engineer VI

AL

BOWERS + KUBOTA
Construction Management · A/E Design · Planning · Project Management

May 30, 2024

Mr. Jase Miyabuchi, P.E.
Engineering Division
Department of Water Supply
County of Maui
200 South High Street
Wailuku, Maui 96793

SUBJECT: Kalama Intermediate School Modular Administration Building
Pre-Assessment Consultation for Environmental Assessment
TMK: (2) 2-4-032: 109
Makawao, Maui, Hawai‘i

Dear Mr. Miyabuchi:

Thank you for the August 11, 2023 letter providing pre-assessment consultation comments associated with the preparation of an Environmental Assessment (EA) for the subject project.

Design plans will be coordinated with the County DWS during the design phase and necessary ministerial permits will be obtained. In addition, necessary improvements, and upgrades to existing water fixtures on the subject property would be discussed with DWS during the design phase. Any water use along with any applicable water system facilities charges would be funded by the State DOE when water is made available for project improvements.

Thank you for providing us with your comments and participating in the process. If you have any questions, please contact me at (808) 836-7787 or mfernandez@bowersandkubota.com.

Sincerely,

Matthew Fernandez
Planner

RICHARD T. BISSEN, JR.
Mayor

KEKUHAUPIO R. AKANA
Acting Managing Director

BRADFORD K. VENTURA
Fire Chief

GAVIN L.M. FUJIOKA
Deputy Fire Chief

DEPARTMENT OF FIRE & PUBLIC SAFETY
COUNTY OF MAUI
313 MANEA PLACE
WAILUKU, MAUI, HAWAI'I 96732
www.mauicounty.gov

July 19, 2023

VIA EMAIL: mfernandez@bowersandkubota.com

Bowers + Kubota Consulting Inc.
Attn: Matthew Fernandez
2153 N King Street, Suite 200
Honolulu HI. 96819-4554

SUBJECT: Pre-Assessment Consultation for Environmental Assessment, HRS Chapter 343 Kalama Intermediate School Modular Administration Building Project
TMK (2) 2-4-032:109 – 0000
Makawao, Maui, Hawai'i

Dear Matthew,

Thank you for allowing our office to provide comment on the subject proposed project. As per your request, comments are provided below:

There are no objections in regards to the information provided as part of the Pre-Assessment Consultation for Environmental Assessment for the HRS Chapter 343 Kalama Intermediate School Modular Administration Building Project. Our office does reserve the right to comment on the proposed project during the building permit review process when detailed plans for this project are routed to our office for review. At that time, fire apparatus access, water supply for fire protection, and fire and life safety requirements associated with the subject project will be formally reviewed.

Should you have any specific fire related public safety concerns please identify those to us on this or any future projects you would like us to review.

If there are any questions or comments, please feel free to contact me at (808) 876-4690 or by email at fire.prevention@mauicounty.gov.

Sincerely,

Plans Review – Fire Prevention Bureau

MG:jn

BOWERS + KUBOTA
Construction Management · A/E Design · Planning · Project Management

May 30, 2024

Plans Review, Fire Prevention Bureau
Department of Fire & Public Safety
County of Maui
313 Manea Place
Wailuku, Maui 96793

SUBJECT: Kalama Intermediate School Modular Administration Building
Pre-Assessment Consultation for Environmental Assessment
TMK: (2) 2-4-032: 109
Makawao, Maui, Hawai‘i

Dear Fire Prevention Bureau,

Thank you for the July 19, 2023 letter providing pre-assessment consultation comments associated with the preparation of an Environmental Assessment (EA) for the subject project.

We confirm that the Fire and Public Safety Department has no objections to the information provided so far as part of the preassessment consultation for the project's Draft EA.

Design plans would be coordinated for ministerial review and obtain necessary permits by County agencies which would include the Department of Fire and Public Safety to ensure that fire apparatus access, water supply for water protection, and fire and life safety requirements are included where appropriate. We also acknowledge that your department does reserve the right to comment on the project during the building permit review process.

Thank you for providing us with your comments and participating in the process. If you have any questions, please contact me at (808) 836-7787 or mfernandez@bowersandkubota.com.

Sincerely,

Matthew Fernandez
Planner

JOSH GREEN, M.D.
GOVERNOR | KE KIAʻĀINA

SYLVIA LUKE
LIEUTENANT GOVERNOR | KA HOPE KIAʻĀINA

DAWN N. S. CHANG
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

STATE OF HAWAIʻI | KA MOKUʻĀINA ʻO HAWAIʻI
DEPARTMENT OF LAND AND NATURAL RESOURCES
KA ʻOIHANA KUMUWAIWAI ʻĀINA
LAND DIVISION

P.O. BOX 621
HONOLULU, HAWAII 96809

August 11, 2023

Bowers & Kubota Consulting, Inc.
Attn: Mr. Matthew Fernandez, Planner via email: mfernandez@bowersandkubota.com
2153 N King Street, Suite 200
Honolulu, Hawaii 96819

Dear Mr. Fernandez:

SUBJECT: Pre-Assessment Consultation for Environmental Assessment for the Proposed **Kalama Intermediate School** Modular Administration Building Project located at 120 Makani Road, Makawao, Island of Maui; TMK: (2) 2-4-032:109 on behalf of Hawaii Department of Education

Thank you for the opportunity to review and comment on the subject matter. The Land Division of the Department of Land and Natural Resources (DLNR) distributed or made available a copy of your request pertaining to the subject matter to DLNR's Divisions for their review and comments.

At this time, enclosed are comments from the (a) Engineering Division and (b) Aha Moku Advisory Committee on the subject matter. Should you have any questions, please feel free to contact Darlene Nakamura at (808) 587-0417 or email: darlene.k.nakamura@hawaii.gov. Thank you.

Sincerely,

Russell Tsuji

Russell Y. Tsuji
Land Administrator

Enclosures
cc: Central Files

From:	DaMate, Leimana K
To:	Nakamura, Darlene K; DLNR.Engr; Terrago, Rubyrosa T; DLNR.CW.DLNRCWRM; Ornellas, Daniel L
Subject:	RE: Request for Comments - Kalama Intermediate School - Pre-Consult for EA
Date:	Tuesday, August 8, 2023 1:44:29 PM

Approved. No change, mahalo.
Leimana

Leimana DaMate, Luna Alaka'i/Executive Director
Hawaii State Aha Moku
808-640-1214
Leimana.k.damate@hawaii.gov

From: Nakamura, Darlene K <darlene.k.nakamura@hawaii.gov>
Sent: Friday, July 14, 2023 4:07 PM
To: DLNR.Engr <dlnr.engr@hawaii.gov>; Terrago, Rubyrosa T <rubyrosa.t.terrago@hawaii.gov>; DLNR.CW.DLNRCWRM <dlnr.cwrm@hawaii.gov>; Ornellas, Daniel L <daniel.l.ornellas@hawaii.gov>; DaMate, Leimana K <leimana.k.damate@hawaii.gov>
Subject: Request for Comments - Kalama Intermediate School - Pre-Consult for EA

The attached are transmitted for your review and comments.

Please submit any comments by August 10, 2023.

JOSH GREEN, M.D.
GOVERNOR | KE KIA'ĀINA

SYLVIA LUKE
LIEUTENANT GOVERNOR | KA HOPE KIA'ĀINA

DAWN N. S. CHANG
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

STATE OF HAWAI'I | KA MOKU'ĀINA 'O HAWAI'I
DEPARTMENT OF LAND AND NATURAL RESOURCES
KA 'OIHANA KUMUWAIWAI 'ĀINA
LAND DIVISION

P.O. BOX 621
HONOLULU, HAWAII 96809

July 14, 2023

MEMORANDUM

FROM: ~~TO:~~

DLNR Agencies:
___Div. of Aquatic Resources
___Div. of Boating & Ocean Recreation
_X_ Engineering Division (DLNR.ENGR@hawaii.gov)
_X_ Div. of Forestry & Wildlife (rubyrosa.t.terrago@hawaii.gov)
___Div. of State Parks
_X_ Commission on Water Resource Management (DLNR.CWRM@hawaii.gov)
___Office of Conservation & Coastal Lands
_X_ Land Division – Maui District (daniel.l.ornellas@hawaii.gov)
_X_ Aha Moku Advisory Committee (leimana.k.damate@hawaii.gov)

TO: ~~FROM:~~ Russell Y. Tsuji, Land Administrator *Russell Tsuji*

SUBJECT: Pre-Assessment Consultation for Environmental Assessment for the Proposed **Kalama Intermediate School** Modular Administration Building Project

LOCATION: 120 Makani Road, Makawao, Island of Maui; TMK: (2) 2-4-032:109

APPLICANT: Bowers & Kubota on behalf of Hawaii Department of Education

Transmitted for your review and comment is information on the above-referenced subject matter. Please submit any comments by **August 10, 2023.**

If no response is received by the above date, we will assume your agency has no comments. Should you have any questions about this request, please contact Darlene Nakamura at darlene.k.nakamura@hawaii.gov. Thank you.

BRIEF COMMENTS:

( ) We have no objections.
( ) We have no comments.
( ) We have no additional comments.
(✓) Comments are included/attached.

Signed: *CSC*

Print Name: Carty S. Chang, Chief Engineer

Division: Engineering Division

Date: Aug 7, 2023

Attachments
cc: Central File

DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

LD/Russell Y. Tsuji

Ref: Pre-Assessment Consultation for Environmental Assessment for the Proposed Kalama Intermediate School Modular Administration Building Project
Location: 120 Makani Road, Makawao, Island of Maui
TMK(s): (2) 2-4-032:109
Applicant: Bowers & Kubota on behalf of Hawaii Department of Education

COMMENTS

The rules and regulations of the National Flood Insurance Program (NFIP), Title 44 of the Code of Federal Regulations (44CFR), are in effect when development falls within a Special Flood Hazard Area (high-risk areas). State projects are required to comply with 44CFR regulations as stipulated in Section 60.12. Be advised that 44CFR, Chapter 1, Subchapter B, part 60 reflects the minimum standards as set forth by the NFIP. Local community flood ordinances may stipulate higher standards that can be more restrictive and would take precedence over the minimum NFIP standards.

The owner of the project property and/or their representative is responsible to research the Flood Hazard Zone designation for the project. Flood Hazard Zones are designated on FEMA's Flood Insurance Rate Maps (FIRM). The official FIRMs can be accessed through FEMA's Map Service Center (msc.fema.gov). Our Flood Hazard Assessment Tool (FHAT) (fhat.hawaii.gov) could also be used to research flood hazard information.

If there are questions regarding the local flood ordinances, please contact the applicable County NFIP coordinating agency below:

- Oahu: City and County of Honolulu, Department of Planning and Permitting (808) 768-8098.
- Hawaii Island: County of Hawaii, Department of Public Works (808) 961-8327.
- Maui/Molokai/Lanai County of Maui, Department of Planning (808) 270-7139.
- Kauai: County of Kauai, Department of Public Works (808) 241-4896.

The applicant should include water demands and infrastructure required to meet project needs. Please note that all State projects requiring water service from their local Department/Board of Water Supply system will be required to pay a resource development charge, in addition to Water Facilities Charges for transmission and daily storage.

The applicant is required to provide water demands and calculations to the Engineering Division so it can be included in the State Water Projects Plan Update projections.

Signed: _____
CARTY S. CHANG, CHIEF ENGINEER

Date: Aug 7, 2023

JOSH GREEN, M.D.
GOVERNOR | KE KIAʻĀINA

SYLVIA LUKE
LIEUTENANT GOVERNOR | KA HOPE KIAʻĀINA

DAWN N. S. CHANG
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

STATE OF HAWAIʻI | KA MOKUʻĀINA ʻO HAWAIʻI
DEPARTMENT OF LAND AND NATURAL RESOURCES
KA ʻOIHANA KUMUWAIWAI ʻĀINA
LAND DIVISION

P.O. BOX 621
HONOLULU, HAWAII 96809

July 14, 2023

MEMORANDUM

FROM: **DLNR Agencies:**
___Div. of Aquatic Resources
___Div. of Boating & Ocean Recreation
_X_ Engineering Division (DLNR.ENGR@hawaii.gov)
_X_ Div. of Forestry & Wildlife (rubyrosa.t.terrago@hawaii.gov)
___Div. of State Parks
_X_ Commission on Water Resource Management (DLNR.CWRM@hawaii.gov)
___Office of Conservation & Coastal Lands
_X_ Land Division – Maui District (daniel.l.ornellas@hawaii.gov)
_X_ Aha Moku Advisory Committee (leimana.k.damate@hawaii.gov)

TO: Russell Y. Tsuji, Land Administrator *Russell Tsuji*

SUBJECT: Pre-Assessment Consultation for Environmental Assessment for the Proposed **Kalama Intermediate School** Modular Administration Building Project

LOCATION: 120 Makani Road, Makawao, Island of Maui; TMK: (2) 2-4-032:109

APPLICANT: Bowers & Kubota on behalf of Hawaii Department of Education

Transmitted for your review and comment is information on the above-referenced subject matter. Please submit any comments by **August 10, 2023.**

If no response is received by the above date, we will assume your agency has no comments. Should you have any questions about this request, please contact Darlene Nakamura at darlene.k.nakamura@hawaii.gov. Thank you.

BRIEF COMMENTS:

( ) We have no objections.
( ) We have no comments.
( ) We have no additional comments.
(☑) Comments are included/attached.

Signed: *Lainie Berry*
Print Name: LAINIE BERRY, Wildlife Program Mgr.
Division: Division of Forestry and Wildlife
Date: Aug 15, 2023

Attachments
cc: Central File

STATE OF HAWAIʻI | KA MOKUʻĀINA ʻO HAWAIʻI
DEPARTMENT OF LAND AND NATURAL RESOURCES
KA ʻOIHANA KUMUWAIWAI ʻĀINA

DIVISION OF FORESTRY AND WILDLIFE
1151 PUNCHBOWL STREET, ROOM 325
HONOLULU, HAWAII 96813

August 15, 2023

MEMORANDUM

Log no. 4194

TO: RUSSELL Y. TSUJI, Administrator
Land Division

FROM: LAINIE BERRY, Wildlife Program Manager
Division of Forestry and Wildlife

SUBJECT: **Pre-Assessment Consultation for Environmental Assessment, HRS Chapter 343 Kalama Intermediate School Modular Administration Building Project in Makawao, Maui**

The Department of Land and Natural Resources, Division of Forestry and Wildlife (DOFAW) has received your request for comments on the Pre-Assessment Consultation for the Draft Environmental Assessment for the proposed Kalama Intermediate School (KIS) Modular Administration Building Project at 120 Makani Road in Makawao on the island of Hawai'i; Tax Map Key: (2) 2-4-032:109. This proposed project includes the construction of a new two-story administration building that will contain staff offices, conference rooms, a health room, and a staff lounge. The proposed project will also involve constructing connecting pathways, and provide extensions of present electrical, communications, water, sewer, and drainage utilities to service the building. The project will not include constructing any new driveways or roadways. This new building site is less than 0.4 acres on a lawn area of the campus that is unoccupied and contains a few trees. It is located in the northeast portion of the school adjacent to the existing KIS campus Building O and parking lot.

The State listed ʻŌpeʻapeʻa or Hawaiian Hoary Bat (*Lasiurus cinereus semotus*) could potentially occur at or in the vicinity of the project and may roost in nearby trees. Any required site clearing should be timed to avoid disturbance to bats during their birthing and pup rearing season (June 1 through September 15). During this period woody plants greater than 15 feet (4.6 meters) tall should not be disturbed, removed, or trimmed. Barbed wire should also be avoided for any construction because bats can become ensnared and killed by such fencing material during flight.

Artificial lighting can adversely impact seabirds that may pass through the area at night by causing them to become disoriented. This disorientation can result in their collision with

manmade structures or the grounding of birds. For nighttime work that might be required, DOFAW recommends that all lights used be fully shielded to minimize the attraction of seabirds. Nighttime work that requires outdoor lighting should be avoided during the seabird fledging season, from September 15 through December 15, when young seabirds make their maiden voyage to sea.

If nighttime construction is required during the seabird fledgling season (September 15 to December 15), we recommend that a qualified biologist be present at the project site to monitor and assess the risk of seabirds being attracted or grounded due to the lighting. If seabirds are seen circling around the area, lights should then be turned off. If a downed seabird is detected, please follow DOFAW's recommended response protocol by visiting https://dlnr.hawaii.gov/wildlife/seabird-fallout-season/#response.

Permanent lighting also poses a risk of seabird attraction, and as such should be minimized or eliminated to protect seabird flyways and preserve the night sky. For illustrations and guidance related to seabird-friendly light styles that also protect seabirds and the dark starry skies of Hawai'i please visit https://dlnr.hawaii.gov/wildlife/files/2016/03/DOC439.pdf.

State-listed waterbirds such as the Ae'o or Hawaiian stilt (*Himantopus mexicanus knudseni*), 'Alae ke'oke'o or Hawaiian coot (*Fulica alai*), and Nēnē or Hawaiian Goose (*Branta sandvicensis*) could potentially occur at or in the vicinity of the proposed project site. It is against State law to harm or harass these species. If any of these species are present during construction, all activities within 100 feet (30 meters) should cease and the bird or birds should not be approached. Work may continue after the bird or birds leave the area of their own accord. If a nest is discovered at any point, please contact the Maui Branch DOFAW Office at (808) 984-8100.

The endemic pueo or Hawaiian Short-Eared Owl (*Asio flammeus sandwichensis*) could potentially nest in the project area. Before any potential vegetative alteration, especially ground-based disturbance, we recommend that line transect surveys are conducted during crepuscular hours through the project area. If a pueo nest is discovered, a minimum buffer distance of 100 meters from the nest should be established until chicks are capable of flight.

The project area is within the range of the State listed Blackburn's Sphinx Moth (*Manduca blackburni*) or BSM. Larvae of BSM feed on many nonnative hostplants, which includes tree tobacco (*Nicotiana glauca*), that grow in disturbed soil. We recommend contacting the Maui Branch DOFAW office at (808) 984-8100 for further information about where BSM may be present and whether a vegetation survey should be conducted to determine the presence of plants preferred by BSM. DOFAW recommends removing plants less than one meter in height or during the dry season to avoid harm to BSM. If you intend to either remove tree tobacco over one meter in height or to disturb the ground around or within several meters of these plants, they must be thoroughly inspected by a qualified entomologist for the presence of BSM eggs and larvae.

DOFAW recommends using native plant species for landscaping that are appropriate for the area; i.e., plants for which climate conditions are suitable for them to thrive, plants that historically occurred there, etc. Please do not plant invasive species. DOFAW also recommends referring to www.plantpono.org for guidance on the selection and evaluation of landscaping plants and to determine the potential invasiveness of plants proposed for use in the project.

DOFAW recommends minimizing the movement of plant or soil material between worksites. Soil and plant material may contain detrimental fungal pathogens (e.g., Rapid ʻŌhiʻa Death), vertebrate and invertebrate pests (e.g., Coqui Frogs, Little Fire Ants, etc.), or invasive plant parts (e.g., Miconia, Mullein, etc.) that could harm our native species and ecosystems. We recommend consulting the Maui Invasive Species Committee (MISC) at (808) 573-6472 to help plan, design, and construct the project, learn of any high-risk invasive species in the area, and ways to mitigate their spread. All equipment, materials, and personnel should be cleaned of excess soil and debris to minimize the risk of spreading invasive species.

DOFAW is concerned about impacts to vulnerable birds from nonnative predators such as cats, rodents, and mongooses. We recommend taking action to minimize predator presence; remove cats, place bait stations for rodents and mongoose, and provide covered trash receptacles.

We recommend that Best Management Practices are employed during and after construction to contain any soils and sediment with the purpose of preventing damage to near-shore waters and marine ecosystems.

We appreciate your efforts to work with our office for the conservation of our native species. These comments are general guidelines and should not be considered comprehensive for this site or project. It is the responsibility of the applicant to do their own due diligence to avoid any negative environmental impacts. Should the scope of the project change significantly, or should it become apparent that threatened or endangered species may be impacted, please contact our staff as soon as possible. If you have any questions, please contact Myrna N. Girald Pérez, Protected Species Habitat Conservation Planning Coordinator at (808) 265-3276 or myrna.girald-perez@hawaii.gov.

Sincerely,

Lainie Berry

LAINIE BERRY
Wildlife Program Manager

BOWERS + KUBOTA
Construction Management · A/E Design · Planning · Project Management

May 30, 2024

Mr. Russell Tsuji, Land Administrator
Department of Land and Natural Resources
State of Hawaii
P.O. Box 621
Honolulu, Hawai‘i 96809

SUBJECT: Kalama Intermediate School Modular Administration Building
Pre-Assessment Consultation for Environmental Assessment
TMK: (2) 2-4-032: 109
Makawao, Maui, Hawai‘i

Dear Mr. Tsuji:

Thank you for both the August 11, 2023 and August 16, 2023 letters providing pre-assessment consultation comments associated with the preparation of an Environmental Assessment (EA) for the subject project. We have the following responses to the comments separated by divisions.

Aha Moku Advisory Committee
We confirm your approval and the information provided so far as part of the preassessment consultation for the project’s Draft EA.

Engineering Division
Thank you for providing information on the federal regulations concerning special flood hazards areas, and the distinction between federal and local community flood ordinances.

The flood hazard zone designations on the subject property have been researched and are discussed in the Draft EA. The Flood Insurance Rate Map and the state’s Flood Hazard Assessment Tool were used to help identify existing flood designations.

Project improvements should have minimal net change in the long-term water demand that now occurs at their current site. Because these administrative operations and other activities (e.g., restroom use) would be reduced at other buildings and consolidated at the new building, the potable water demand from operations should generally remain the same and not have a significant impact on the County’s water system. Information on water demand and infrastructure required has been included in the Draft EA. The actual water demands and calculations would be provided to the Engineering Division during the project’s design phase when plans are being developed for construction.

Division of Forestry and Wildlife
Thank you for the comments and information on endangered species to be considered. A flora and fauna study has been conducted to assess the project’s effect on avifauna and mammalian resources. The study results have been incorporated in the Draft EA and the report included in the Appendices.

This report addressed the potential of the Hawaiian Hoary Bat being present in the area and identified those measures identified in your letter to avoid impacting this species. There may be a few trees 15 feet or taller in the project area, but their removal should be able to be scheduled outside of the pup rearing season.

The biological study also addressed the presence of seabirds that may occur in the area. No construction activities are anticipated to occur at night that require utilizing bright lights for operational areas. If any outdoor lights are required, they will be shielded to minimize the attraction of seabirds as recommended in the comments. The guidance identified related to seabird-friendly light styles would also be utilized during the project's design phase as construction plans are developed. Outdoor lighting for buildings (e.g. for security) would be shielded to reduce the potential for seabird attraction.

No state-listed waterbirds were detected on the project area as there is no suitable habitat for such waterbirds since these areas do not consist of potential foraging habitat such as lowland streams or tidal mudflats. However, if any such waterbird species are present during construction, the minimization measures identified to avoid effects would apply.

The endemic pueo or Hawaiian Short-Eared Owl was not detected during the field investigation. However, if any pueo or pueo nest are discovered in the project area during construction, a buffer zone would be established to minimize impact to pueo chicks as recommended in the comments.

The State-listed Blackburn's Sphinx Moth, its larvae, or eggs were not discovered during the biological survey of the project site. To minimize the potential impact of construction activities on the site, the minimization measures identified to avoid effects would apply.

Native plants species would be incorporated into the project's landscaped areas where appropriate. No invasive species would be planted in these areas. Landscaped areas for the project would be maintained and thereby reduce dry grass or brush areas on the property that could help fuel wildfires.

Construction activities would try to minimize the movement of plant or soil material between worksites due to the potential for invasive fungal pathogens or pests being present. The design phase would consider consulting with the Maui Invasive Species Committee to help identify measures to minimize the spread of these pathogens or pests, as appropriate. Best management practices incorporated in design plans would also address cleaning equipment and personnel of excess soil and debris to minimize the risk of spreading invasive species and to prevent damage to nearshore waters and marine ecosystems.

We appreciate your division's comments and the project's design would include necessary efforts to support the conservation of native species. Thank you for providing us with your comments and participating in the process. If you have any questions, please contact me at (808) 836-7787 or mfernandez@bowersandkubota.com.

Sincerely,

Matthew Fernandez
Planner

Matthew Fernandez

From: Cayanan, Cristian M (CJ) CIV USARMY CEPOH (USA) <Cristian.M.Cayanan@usace.army.mil>
Sent: Thursday, August 24, 2023 2:19 PM
To: Matthew Fernandez
Subject: [External] POH-2023-00151 Hawai'i Department of Education, EA for Samuel E. Kalama Intermediate School campus, 120 Makani Road, Makawao, Island of Maui, HI
Attachments: POH-2023-00151.20230824.NPR Letter.pdf; Enclosure 2 POH-2023-00151 AJD Form.pdf; Enclosure 3 POH-2023-00151 NAP and RFA Form.pdf; Enclosure 1 POH-2023-00151 Map.pdf

Aloha Mr. Fernandez,

The U.S. Army Corps of Engineers – Honolulu District Regulatory Office (Corps) received your request for the pre-assessment consultation for EA regarding the proposed KIS Modular Admin Bulding Project on August 17, 2023. Your project has been assigned the following Department of the Army (DA) project number POH-2023-00151. Please reference this project number in all future correspondence and inquiries.

Please see the attached documentation for the subject project.

The Honolulu District Regulatory Office is digitally transmitting the attached documentation for your convenience. Please print a copy of the document(s) and retain for your records. If you are unable to print the documentation and require a hard copy mailed to you, please notify me at your earliest convenience.

Mahalo and Si Yu'os Ma'åse,

CJ Cayanan (she/her)
Biologist/Regulatory Specialist
Honolulu District
U.S. Army Corps of Engineers
Building 252, Fort Shafter, Hawai'i 96858
Email Cristian.J.Cayanan@usace.army.mil
Office Phone: 808-835-4107

DEPARTMENT OF THE ARMY
HONOLULU DISTRICT, U.S. ARMY CORPS OF ENGINEERS
REGULATORY OFFICE
FORT SHAFTER, HAWAII 96858-5440

August 24, 2023

SUBJECT: Approved Jurisdictional Determination (AJD) and No Permit Required, DA File No. POH-2023-00151

Matthew Fernandez
Bowers + Kubota Consulting, Inc.
2153 N. King Street, Suite 200
Honolulu, HI 96819

Dear Mr. Fernandez:

The U.S. Army Corps of Engineers – Honolulu District, Regulatory Office (Corps) has received your request for a pre-assessment consultation for the proposed construction of the Kalama Intermediate School Modular Administration Building Project located in Makawao, Island of Maui, Hawai'i. Your request has been assigned DA file number POH-2023-00151. Please reference this number in all future correspondence with our office relating to this action.

The review area for this AJD is the approximately 10.4-acre parcel identified by TMK (2) 2-4-032:109 containing the Samuel E. Kalama Intermediate School and is shown on the enclosed map (Enclosure 1).

Based on our review of the information you provided dated July 11, 2023, the Corps has determined the site does not contain waters of the U.S., including wetlands or navigable waters of the U.S., as defined by 33 CFR Parts 328 and 329, respectively. Therefore, a DA permit under Section 404 of the Clean Water Act and/or Section 10 of the Rivers and Harbors Act of 1899 is not required.

This AJD is valid for a period of five (5) years from the date of the AJD form, unless new information supporting a revision is provided to us before the expiration date. The basis for this determination can be found in the enclosed AJD form (Enclosure 2). Additionally, a Notification of Administrative Appeal Options and Process and Request for Appeal form regarding this AJD (see section labeled "Approved Jurisdictional Determination") is enclosed (Enclosure 3).

While a DA permit is not required for your proposed project, you are responsible for obtaining all other applicable Federal, state, or local authorizations required by law.

Thank you for your cooperation with the Honolulu District Regulatory Program. If you have any questions related to this determination, please contact me at 808-835-4107 or via e-mail at Cristian.J.Cayanan@usace.army.mil. You are encouraged to provide comments on your experience with the Honolulu District Regulatory Office by accessing our web-based customer survey form at https://regulatory.ops.usace.army.mil/ords/f?p=136:4. For additional information about our Regulatory Program, please visit our web site at https://www.poh.usace.army.mil/Missions/Regulatory.aspx.

Sincerely,

CJ Cayanan
Regulatory Specialist

Enclosure

AJD Review Area

Legend

Kalama Intermediate School (KIS)

Hoomaha Rd

Little League Baseball Fields

Upcountry Dog Park

Iron Horse Repair & Leasing Inc

Hale Kipa Rd

Makawao Park Eddie Tam Center

Samuel E Kalama Intermediate

Maui Floral

Alapio Pl

Makani Rd

365

Awapuhi Adventures | Maui Private Tours

Shanti Sound Healing

Google Earth

Image © 2023 Airbus

700 ft

N

US ARMY CORPS OF ENGINEERS (USACE)
REGULATORY PROGRAM
APPROVED JURISDICTIONAL DETERMINATION FORM (INTERIM)
2023 RULE

OMB Control Number: 0710-0024
Expiration Date: 09/30/2023

AGENCY DISCLOSURE NOTICE

The public reporting burden for this collection of information, 0710-0024, is estimated to average 4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or burden reduction suggestions to the Department of Defense, Washington Headquarters Services, at whs.mc-alex.esd.mbx.dd-dod-information-collections@mail.mil. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.

I. ADMINISTRATIVE INFORMATION

Completion Date of Approved Jurisdictional Determination (AJD): 8/24/2023

ORM Project Name: Hawai'i Department of Education, EA for Samuel E. Kalama Intermediate School campus, 120 Makani Road, Makawao, Island of Maui, HI

ORM Identification Number: POH-2023-00151

☐ Other sites (e.g., offsite mitigation sites, disposal sites or other review areas, etc.) are associated with this action and are recorded on a different jurisdictional determination (JD) form(s).

Associated JD Names and Numbers: N/A

Review Area Location: State/Territory: Hawaii City: Makawao

County/Parish/Borough: Island of Maui

Center Coordinates of Review Area: Latitude: 20.85160°N, Longitude: -156.31992°W

Limits of review area: See Enclosed Map (Enclosure 1)

II. SUMMARY[2]

Check all that apply. At least one box from the following list MUST be selected. Complete the corresponding tables in Section III., summarize data sources in Section IV., and attach completed Appendices A and/or B when specified.

☒ The review area is comprised entirely of dry land (i.e., there are no waters such as streams, rivers, wetlands, lakes, ponds, tidal waters, ditches, and the like in the entire review area). Rationale: There are no waters present based on a desktop view of the approximately 10.4-acre parcel review area.

☐ There are "navigable waters of the United States" within Rivers and Harbors Act jurisdiction within the review area (complete the table in Section III.A.).

☐ There are "waters of the United States" within Clean Water Act jurisdiction within the review area (complete appropriate tables in Section III.B. and complete and attach appendices as appropriate).

☐ Potentially jurisdictional waters and/or features were assessed within the review area and determined to be non-jurisdictional (complete appropriate tables in Section III.C. and complete and attach appendices as appropriate).

---

[1] The final rule "Revised Definition of 'Waters of the United States'" (2023 Rule) was published in the *Federal Register* on 18 January 2023 and the effective date is 20 March 2023. See https://www.federalregister.gov/documents/2023/01/18/2022-28595/revised-definition-of-waters-of-the-united-states.

[2] Map(s)/figure(s) or descriptions of the review area and any jurisdictional waters are attached to the AJD provided to the requestor.

III. FINDINGS IN THE REVIEW AREA

A. Jurisdictional under the Rivers and Harbors Act of 1899[3] (Section 10)[4]

Section 10 Waters			
Section 10 water name	Section 10 size in review area		Type of Section 10 water
N/A	N/A	N/A	N/A.
Rationale for determination: N/A			

B. Jurisdictional under the Clean Water Act

Paragraph (a)(1) waters:[5] Waters which are: (i) Currently used, or were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide (Traditional Navigable Waters); (ii) The territorial seas; or (iii) Interstate waters, including interstate wetlands			
(a)(1) water name	(a)(1) size in review area		Type of paragraph (a)(1) water
N/A	N/A	N/A	N/A.
Rationale for determination: N/A			

Paragraph (a)(2) waters: Impoundments of waters otherwise defined as waters of the United States under this definition, other than impoundments of waters identified under paragraph (a)(5)			
(a)(2) water name	(a)(2) size in review area		Type of paragraph (a)(2) water
N/A	N/A	N/A	N/A.
Rationale for determination: N/A			

[3] If the navigable water of the United States is not subject to the ebb and flow of the tide and not included on the district's list of Rivers and Harbors Act (RHA) Section 10 navigable waters of the United States list do NOT use this form to make a report of findings to support a determination that the water is a navigable water of the United States. The district must follow the procedure outlined in 33 CFR part 329.14 to make a determination that water is a navigable water of the United States subject to Section 10 of the Rivers and Harbors Act.

[4] USACE has authority under both Section 9 and Section 10 of the Rivers and Harbors Act of 1899 but for convenience, in this AJD form, jurisdiction under RHA will be referred to as Section 10.

[5] A stand-alone TNW determination for a water that is not subject to Section 9 or 10 of RHA is completed independently of a request for an AJD. A stand-alone TNW determination is conducted for a specific segment of river or stream or other type of waterbody, such as a lake, where upstream or downstream limits or lake borders are established. A stand-alone TNW determination should be completed following applicable guidance and should NOT be documented on the AJD Form.

US ARMY CORPS OF ENGINEERS (USACE)
REGULATORY PROGRAM
APPROVED JURISDICTIONAL DETERMINATION FORM (INTERIM)
2023 RULE

Paragraph (a)(3) waters: Tributaries of waters identified in paragraph (a)(1) or (2): (i) That are relatively permanent, standing or continuously flowing bodies of water; or (ii) That either alone or in combination with similarly situated waters in the region, significantly affect the chemical, physical, or biological integrity of waters identified in paragraph (a)(1)			
(a)(3) water name	(a)(3) size in review area		Type of paragraph (a)(3) water
N/A	N/A	N/A	N/A.
Rationale for determination: N/A			

Paragraph (a)(4) waters: Wetlands adjacent to the following waters: (i) Waters identified in paragraph (a)(1); or (ii) Relatively permanent, standing or continuously flowing bodies of water identified in paragraph (a)(2) or (a)(3)(i) and with a continuous surface connection to those waters; or (iii) Waters identified in paragraph (a)(2) or (3) when the wetlands either alone or in combination with similarly situated waters in the region, significantly affect the chemical, physical, or biological integrity of waters identified in paragraph (a)(1)			
(a)(4) water name	(a)(4) size in review area		Adjacency criteria
N/A	N/A	N/A	N/A
Type of paragraph (a)(4) water	N/A		
Rationale for determination: N/A			

Paragraph (a)(5) waters: Intrastate lakes and ponds, streams, or wetlands not identified in paragraphs (a)(1) through (4): (i) That are relatively permanent, standing or continuously flowing bodies of water with a continuous surface connection to the waters identified in paragraph (a)(1) or (a)(3)(i); or (ii) That either alone or in combination with similarly situated waters in the region, significantly affect the chemical, physical, or biological integrity of waters identified in paragraph (a)(1).[6]			
(a)(5) water name	(a)(5) size in review area		Type of paragraph (a)(5) water
N/A	N/A.	N/A	N/A
Rationale for determination: N/A			

[6] In implementing the significant nexus standard, the agencies generally intend to analyze waters under paragraph (a)(5) individually to determine if they significantly affect the chemical, physical, or biological integrity of a paragraph (a)(1) water.

C. Waters or features that are not jurisdictional under the Clean Water Act

Waters analyzed under paragraph (a)(3)(ii), (a)(4)(iii), or (a)(5)(ii) and determined non-jurisdictional: Tributaries of waters identified in paragraph (a)(1) or (2); and/or wetlands adjacent to waters identified in paragraph (a)(2) or (3); and/or intrastate lakes and ponds, streams, or wetlands not identified as (a)(1) through (4) waters; that either alone or in combination with similarly situated waters in the region, do not significantly affect the chemical, physical, or biological integrity of waters identified in paragraph (a)(1).			
Water name	Water size in review area		Type of water for which significant nexus was not met:
N/A	N/A	N/A	N/A
Rationale for determination: N/A			

(b)(1) – (b)(8) Excluded Features[7]			
Excluded feature name	Excluded feature size in review area		Exclusion[8]
N/A	N/A	N/A	N/A
Rationale for determination: N/A			

IV. SUPPORTING INFORMATION

A. Paragraph (a)(1) water that is outside the review area:

a. Provide the name of the paragraph (a)(1) water: N/A or Name of (a)(1) Water.
b. Type of paragraph (a)(1) water: N/A.
c. Provide the rationale for jurisdiction of the paragraph (a)(1) water: N/A or Provide Additional Discussion as Appropriate.

B. Significant nexus analyses

☐ Appendix A is attached and includes the significant nexus analysis for any waters in the review area that were evaluated under paragraph (a)(3)(ii) and/or paragraph (a)(4)(iii).
☐ Appendix B is attached and includes the significant nexus analyses for any waters in the review area that were evaluated under paragraph (a)(5)(ii).
☒ There are no waters in the review area that require evaluation under the significant nexus standard. Therefore, neither Appendix A nor Appendix B are included with this form

[7] Transient features on the landscape that are difficult to document due to their non-permanent nature, such as rills and gullies, may not be specifically identified on the AJD form unless a requestor specifically asks a USACE district to do so. USACE districts may, in case-by-case instances, elect to document any such feature on a case-by-case basis, such as when the feature is relevant to analysis of the jurisdictional status of another water.
[8] Note the full text of the exclusions for (b)(1)-(6) and (b)(8) are included in the dropdown list, while the text for the (b)(7) exclusion is truncated due to space limitations. The full text of the (b)(7) exclusion is as follows: (b)(7) Waterfilled depressions created in dry land incidental to construction activity and pits excavated in dry land for the purpose of obtaining fill, sand, or gravel unless and until the construction or excavation operation is abandoned and the resulting body of water meets the definition of waters of the United States

C. Data, models, and other relevant methods Select/enter all resources that were used to support this determination and include data/maps and/or references/citations in the administrative record, as appropriate.

☐ Aquatic resources delineation submitted by, or on behalf of, the requestor: Title(s) and Date(s)
The aquatic resources delineation submitted by or on behalf of the requestor is sufficient for purposes of this AJD Select
Rationale: N/A or Describe why Information is Partially or Wholly Insufficient for Purposes of this AJD
☐ Aquatic resources delineation prepared by the USACE: Title(s) and Date(s)
☐ Wetland field data sheets prepared by the USACE: Title(s) and Date(s)
☐ OHWM data sheets prepared by the USACE: Title(s) and Date(s)
☐ USACE site visit: Date(s) of site visit(s): Date(s) of Site Visit(s), Title(s) and Date(s) of Site Visit Summary Document(s)
☐ Previous Jurisdictional Determinations (AJDs or PJDs) addressing the same (or portions of the same) review area: ORM Number(s) and Date(s)
☐ Photographs: Source(s), Title(s) and Date(s)
☒ Aerial Imagery: Google Earth accessed August 2023
☐ LiDAR: Source(s), Title(s) and Date(s)
☐ USDA NRCS Soil Survey: Title(s) and Date(s)
☐ USFWS NWI maps: Title(s) and Date(s)
☒ USGS topographic maps: Maui, HI 1954 (HTMC, 1954 ed.), Haiku, HI 2017 (US Topo)
☐ USGS NHD data/maps: Title(s) and Date(s)
☐ USGS Dynamic Surface Water Extent: Title(s) and Date(s)
☐ Section 10 navigability resource used: Title(s) and Date(s)

Other data sources or models used to aid in this determination:

Data source or model (Select)	Name, date, and other relevant information
USGS Sources	N/A
USEPA Sources	Watershed Assessment, Tracking & Environmental Results System (WATERS) KMZ tool for Google Earth, v2.0 updated 09-20-2022
USDA Sources[9]	N/A
NOAA Sources	N/A
USACE Sources	N/A
State/Local/Tribal Sources	N/A
Other Sources	N/A

D. Additional comments to support AJD: N/A

[9] Including Certified Wetland Determination from the NRCS.

NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL

Applicant: **Matthew Fernandez (Agent)**	File Number: **POH-2023-00151**	Date: **Aug. 24.2023**

Attached is:		See Section below
	INITIAL PROFFERED PERMIT (Standard Permit or Letter of Permission)	A
	PROFFERED PERMIT (Standard Permit or Letter of Permission)	B
	PERMIT DENIAL	C
X	APPROVED JURISDICTIONAL DETERMINATION	D
	PRELIMINARY JURISDICTIONAL DETERMINATION	E

SECTION I - The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at http://www.usace.army.mil/CECW/Pages/reg_materials.aspx or Corps regulations at 33 CFR Part 331.

A. INITIAL PROFFERED PERMIT: You may accept or object to the permit.

- **ACCEPT: If you received a Standard Permit or a Letter of Permission (LOP), you may sign the permit document and return it to the district commander for final authorization. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.**
- **OBJECT: If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district commander. Your objections must be received by the district commander within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district commander will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district commander will send you a proffered permit for your reconsideration, as indicated in Section B below.**

B. PROFFERED PERMIT: You may accept or appeal the permit

- ACCEPT: If you received a Standard Permit or a Letter of Permission (LOP), you may sign the permit document and return it to the district commander for final authorization. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- APPEAL: If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division commander. This form must be received by the division commander within 60 days of the date of this notice.

C. PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division commander. This form must be received by the division commander within 60 days of the date of this notice.

D. APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.

- ACCEPT: You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.
- APPEAL: If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division commander. This form must be received by the division commander within 60 days of the date of this notice.

E. PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

SECTION II - REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT

REASONS FOR APPEAL OR OBJECTIONS: (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

ADDITIONAL INFORMATION: The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

POINT OF CONTACT FOR QUESTIONS OR INFORMATION:

If you have questions regarding this decision and/or the appeal process you may contact:

Honolulu District, U.S. Army Corps of Engineers
Regulatory Office, CEPOH-RO
Building 230
Fort Shafter, Hawaii 96858-5440
808-835-4303

If you only have questions regarding the appeal process you may also contact:

Kate Bliss
Regulatory Program Manager
U.S. Army Corps of Engineers, Pacific Ocean Division
Building 525
Fort Shafter, HI 96858-5440
808-835-4626
Kate.m.bliss@usace.army.mil

RIGHT OF ENTRY: Your signature below grants the right of entry to Corps of Commanders personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15-day notice of any site investigation, and will have the opportunity to participate in all site investigations.

	Date:	Telephone number:
_____ Signature of appellant or agent.		

BOWERS + KUBOTA
Construction Management · A/E Design · Planning · Project Management

May 30, 2024

Ms. Cristian (CJ) Cayanan, Biologist/Regulatory Specialist
Regulatory Office
Honolulu District
U.S. Army Corps of Engineers
Public Affairs Office, Room 302
Fort Shafter, Hawai‘i 96858-5440

Via Email: Cristian.M.Cayanan@usace.army.mil

SUBJECT: Kalama Intermediate School Modular Administration Building
Pre-Assessment Consultation for Environmental Assessment
TMK: (2) 2-4-032: 109
Makawao, Maui, Hawai‘i

Dear Ms. Cayanan:

Thank you for the August 24, 2023 email providing pre-assessment consultation comments associated with the preparation of an Environmental Assessment (EA) for the subject project (DA file no. POH-2023-00151).

We thank you for your review of the project site and your determination that the project site does not contain any waters of the U.S. and that a DA permit under Section 404 of the Clean Water Act or Section 10 of the Rivers and Harbors Act of 1899 is not required.

We confirm that all other applicable Federal, state, and local permits will be obtained for the project.

Thank you for providing us with your comments and participating in the process. If you have any questions, please contact me at (808) 836-7787 or mfernandez@bowersandkubota.com.

Sincerely,

Matthew Fernandez
Planner

From:	Yrigoyen, James
To:	Matthew Fernandez
Cc:	Asman, Lindsy
Subject:	[External] Request for TA - Environmental Assessment, Kalama Intermediate School Modular Administration Building Project, Makawao, Maui
Date:	Tuesday, July 25, 2023 11:29:18 AM
Attachments:	IPaC Info Letter_Species List Instructions_PIFWO_20Apr2022_Final.pdf Bowers + Kubota Pre-Assessment Consultation for Environmental Assessment, Kalama Intermediate School Modular Administration Building Project, Makawao, Maui.pdf

Dear Matthew Fernandez,

Thank you for your recent correspondence requesting technical assistance on species biology, habitat, or life requisite requirements. The Pacific Islands Fish and Wildlife Office (PIFWO) of the U.S. Fish and Wildlife Service (Service) appreciates your efforts to avoid or minimize effects to protected species associated with your proposed actions. We provide the following information for your consideration under the authorities of the Endangered Species Act (ESA) of 1973 (16 U.S.C. 1531 *et seq*.), as amended.

The USFWS has updated how we process section 7 consultations. We are now directing all our partners to our **Information for Planning and Consultation**, (IPaC) online tool.

The very first step in the consultation process is to obtain a species list in IPaC. I am attaching a pdf with directions on how to use IPaC.

Essentially, you will enter basic project information, including project area [by uploading a single polygon layer with all Tax Map Keys (TMKs) or drawing on the map per attached instructions], and IPaC will generate a species list comprised of species that are or may occur in the project footprint or action area. Each species on the list will have a link underneath in which you will find our avoidance and minimization measures (AMM) for that species. For some groups of species, such as seabirds, the AMM will all be the same. When you get to the end of the steps, you'll need to formally submit the species list. You can save a copy for yourself. A copy will automatically be sent to our office. Each project is assigned a unique Project Code in IPaC; please include this Project Code in all future correspondence with our office regarding this project.

A few IPaC tips in assisting our partners include:

1. If you are uploading a polygon and have more than one TMK in the project area, make sure all TMKs are in one polygon. Otherwise, you will get a project code for every TMK.
2. You can ignore any requests or links regarding additional document uploads or continuing your consultation in IPaC. The only thing you need to do is submit your project info and submit for an official species list.
3. I provided the link above, but in the attached directions you will find a direct link (without going through ECOS): https://ipac.ecosphere.fws.gov/. Several partners have gotten stuck at the create a Login.gov account. Our IT suggested accessing IPaC through ECOS may help reduce this issue.
4. Your species list may seem exhaustive, do not be alarmed, IPaC is based on species'

ranges, so it is informative in that is provides a list of species that could be in the project area, are likely to be in the project area, or are in the project area. Please let me know if you have any questions.

Thank you for protecting federally listed species. If you have any questions, please contact JamesYrigoyen at james_yrigoyen@fws.gov or by telephone at 808-490-1745.

Sincerely,

James Yrigoyen
Fish and Wildlife Biologist, Maui Nui Team
U.S. Fish and Wildlife Service
Pacific Islands Fish and Wildlife Office
300 Ala Moana Blvd., Room 3-122, Honolulu, HI 96850
Duty Station: Keālia Pond National Wildlife Refuge
Milepost 6, Maui Veterans Highway
Kīhei, Hawai‘i 96753
Cell - (808) 490-1745
https://www.fws.gov/pacificislands/

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Pacific Islands Fish And Wildlife Office
300 Ala Moana Boulevard, Box 50088
Honolulu, HI 96850-5000
Phone: (808) 792-9400 Fax: (808) 792-9580

In Reply Refer To: July 26, 2023
Project Code: 2023-0109499
Project Name: Kalama Intermediate School Modular Administration Building Project

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened and endangered species, as well as designated critical habitat that may occur within the boundary of your proposed project and that may be affected by project related actions. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*). Please contact the Service's Pacific Islands Fish and Wildlife Office (PIFWO) at 808-792-9400 if you have any questions regarding your IPaC species list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may adversely affect threatened and endangered species and/or designated critical habitat.

Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the IPaC system by completing the same process used to receive the enclosed list.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a Biological

Evaluation, similar to a Biological Assessment, be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment or Biological Evaluation are described at 50 CFR 402.12.

Due to the significant number of listed species found on each island within PIFWO's regulatory jurisdiction, and the difficulty in accurately mapping ranges for species that we have limited information about, your species list may include more species than if you obtained the list directly from a Service biologist. We recommend you use the species links in IPaC to view the life history, habitat descriptions, and recommended avoidance and minimization measures to assist with your initial determination of whether the species or its habitat may occur within your project area. If appropriate habitat is present for a listed species, we recommend surveys be conducted to determine whether the species is also present. If no surveys are conducted, we err on the side of the species, by regulation, and assume the habitat is occupied. Updated avoidance and minimization measures for plants and animals, best management practices for work in or near aquatic environments, and invasive species biosecurity protocols can be found on the PIFWO website at: https://www.fws.gov/office/pacific-islands-fish-and-wildlife/library.

If a Federal agency determines, based on the Biological Assessment or Biological Evaluation, that a listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at: http://www.fws.gov/endangered/esa-library/index.

Non-federal entities can also use the IPaC generated species list to develop Habitat Conservation Plans (HCP) in accordance with section 10(a)(1)(B) of the Act. We recommend HCP applicants coordinate with the Service early during the HCP development process. For additional information on HCPs, the Habitat Conservation Planning handbook can be found at https://www.fws.gov/sites/default/files/documents/habitat-conservation-planning-handbook-entire.pdf.

Please be aware that wind energy projects should follow the Service’s wind energy guidelines (http://www.fws.gov/windenergy) for minimizing impacts to migratory birds. Listed birds and the Hawaiian hoary bat may also be affected by wind energy development and we recommend development of a Habitat Conservation Plan for those species, as described above. Guidance for minimizing impacts to migratory birds for projects including communications towers can be found at:

- http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers
- http://www.towerkill.com
- http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation actions that benefit threatened and endangered species into their project planning to further the purposes of the Act in accordance with section 7(a)(1). Please include the Consultation Tracking Number associated with your IPaC species list in any

request for consultation or correspondence about your project that you submit to our office. Please feel free to contact us at PIFWO_admin@fws.gov or 808-792-9400 if you need more current information or assistance regarding the potential impacts to federally listed species and federally designated critical habitat.

Attachment(s):

- Official Species List

OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Pacific Islands Fish And Wildlife Office
300 Ala Moana Boulevard, Box 50088
Honolulu, HI 96850-5000
(808) 792-9400

PROJECT SUMMARY

Project Code: 2023-0109499

Project Name: Kalama Intermediate School Modular Administration Building Project

Project Type: New Constr - Above Ground

Project Description: Pursuant to Chapter 343, Hawai‘i Revised Statutes (HRS), the State of Hawai‘i, Department of Education (DOE) is preparing an Environmental Assessment (EA) for the construction of a new modular administration building at Samuel E. Kalama Intermediate School (KIS) campus located in Makawao on the Island of Maui.

KIS is located at 120 Makani Road in Makawao, Maui on an approximately 10.4-acre parcel bounded by Eddie Tam Memorial Park to the north, Hale Kipa Road to the west, residential homes to the east, and Makani Road to the south. The new building site of less than 0.4 acres is situated entirely within a lawn area of the KIS campus that is currently unoccupied and contains a few trees. This project site is in the northeast portion of the school, adjacent to the existing KIS campus Building O and parking lot.

This proposed project includes the construction of a new two-story administration building that will contain staff offices, conference rooms, a health room, and a staff lounge. The proposed Modular Administration Building will be occupied by existing KIS faculty and staff. The proposed project will also involve constructing connecting pathways, and provide extensions of present electrical, communications, water, sewer, and drainage utilities to service the building. The project will not include constructing any new driveways or roadways. Overall, the proposed building will be about 43-feet wide, 181-feet long and encompass approximately 15,000-square feet.

Project Location:

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@20.8516871,-156.31991415562638,14z

Counties: Maui County, Hawaii

ENDANGERED SPECIES ACT SPECIES

There is a total of 36 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

---

1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

MAMMALS

NAME	STATUS
Hawaiian Hoary Bat *Lasiurus cinereus semotus* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/770 General project design guidelines: https://ipac.ecosphere.fws.gov/project/EB3XNCPPTVABBNIYZUSLNTZH4Q/documents/generated/6477.pdf	Endangered

BIRDS

NAME	STATUS

Band-rumped Storm-petrel *Oceanodroma castro* — Endangered
- Population: USA (HI)
- No critical habitat has been designated for this species.
- Species profile: https://ecos.fws.gov/ecp/species/1226
- General project design guidelines: https://ipac.ecosphere.fws.gov/project/EB3XNCPPTVABBNIYZUSLNTZH4Q/documents/generated/6939.pdf

Hawaiian (=koloa) Duck *Anas wyvilliana* — Endangered
- No critical habitat has been designated for this species.
- Species profile: https://ecos.fws.gov/ecp/species/7712
- General project design guidelines: https://ipac.ecosphere.fws.gov/project/EB3XNCPPTVABBNIYZUSLNTZH4Q/documents/generated/6934.pdf

Hawaiian Coot *Fulica americana alai* — Endangered
- No critical habitat has been designated for this species.
- Species profile: https://ecos.fws.gov/ecp/species/7233
- General project design guidelines: https://ipac.ecosphere.fws.gov/project/EB3XNCPPTVABBNIYZUSLNTZH4Q/documents/generated/6934.pdf

Hawaiian Goose *Branta (=Nesochen) sandvicensis* — Threatened
- No critical habitat has been designated for this species.
- Species profile: https://ecos.fws.gov/ecp/species/1627
- General project design guidelines: https://ipac.ecosphere.fws.gov/project/EB3XNCPPTVABBNIYZUSLNTZH4Q/documents/generated/6925.pdf

Hawaiian Petrel *Pterodroma sandwichensis* — Endangered
- No critical habitat has been designated for this species.
- Species profile: https://ecos.fws.gov/ecp/species/6746
- General project design guidelines: https://ipac.ecosphere.fws.gov/project/EB3XNCPPTVABBNIYZUSLNTZH4Q/documents/generated/6939.pdf

Hawaiian Stilt *Himantopus mexicanus knudseni* — Endangered
- No critical habitat has been designated for this species.
- Species profile: https://ecos.fws.gov/ecp/species/2082
- General project design guidelines: https://ipac.ecosphere.fws.gov/project/EB3XNCPPTVABBNIYZUSLNTZH4Q/documents/generated/6934.pdf

Newell's Townsend's Shearwater *Puffinus auricularis newelli* — Threatened
- No critical habitat has been designated for this species.
- Species profile: https://ecos.fws.gov/ecp/species/2048
- General project design guidelines: https://ipac.ecosphere.fws.gov/project/EB3XNCPPTVABBNIYZUSLNTZH4Q/documents/generated/6939.pdf

INSECTS

NAME	STATUS
Blackburn's Sphinx Moth *Manduca blackburni*	Endangered

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.

Species profile: https://ecos.fws.gov/ecp/species/4528

General project design guidelines:

https://ipac.ecosphere.fws.gov/project/EB3XNCPPTVABBNIYZUSLNTZH4Q/documents/generated/6926.pdf

FLOWERING PLANTS

NAME STATUS

`aiea *Nothocestrum latifolium* Endangered
No critical habitat has been designated for this species.
Species profile: https://ecos.fws.gov/ecp/species/1061
General project design guidelines:
https://ipac.ecosphere.fws.gov/project/EB3XNCPPTVABBNIYZUSLNTZH4Q/documents/generated/7051.pdf

`awikiwiki *Canavalia pubescens* Endangered
There is **final** critical habitat for this species. Your location does not overlap the critical habitat.
Species profile: https://ecos.fws.gov/ecp/species/7908
General project design guidelines:
https://ipac.ecosphere.fws.gov/project/EB3XNCPPTVABBNIYZUSLNTZH4Q/documents/generated/7051.pdf

`ena`ena *Pseudognaphalium sandwicensium var. molokaiense* Endangered
No critical habitat has been designated for this species.
Species profile: https://ecos.fws.gov/ecp/species/5993
General project design guidelines:
https://ipac.ecosphere.fws.gov/project/EB3XNCPPTVABBNIYZUSLNTZH4Q/documents/generated/7051.pdf

Alani *Melicope knudsenii* Endangered
There is **final** critical habitat for this species. Your location does not overlap the critical habitat.
Species profile: https://ecos.fws.gov/ecp/species/4668
General project design guidelines:
https://ipac.ecosphere.fws.gov/project/EB3XNCPPTVABBNIYZUSLNTZH4Q/documents/generated/7051.pdf

Bonamia menziesii Endangered
There is **final** critical habitat for this species. Your location does not overlap the critical habitat.
Species profile: https://ecos.fws.gov/ecp/species/2503
General project design guidelines:
https://ipac.ecosphere.fws.gov/project/EB3XNCPPTVABBNIYZUSLNTZH4Q/documents/generated/7051.pdf

Gouania hillebrandii Endangered
There is **final** critical habitat for this species. Your location does not overlap the critical habitat.
Species profile: https://ecos.fws.gov/ecp/species/3464
General project design guidelines:
https://ipac.ecosphere.fws.gov/project/EB3XNCPPTVABBNIYZUSLNTZH4Q/documents/generated/7051.pdf

Holei *Ochrosia haleakalae* Endangered
No critical habitat has been designated for this species.
Species profile: https://ecos.fws.gov/ecp/species/884
General project design guidelines:
https://ipac.ecosphere.fws.gov/project/EB3XNCPPTVABBNIYZUSLNTZH4Q/documents/generated/7051.pdf

Kamanomano *Cenchrus agrimonioides* Endangered

NAME STATUS

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.
Species profile: https://ecos.fws.gov/ecp/species/2928
General project design guidelines:
https://ipac.ecosphere.fws.gov/project/EB3XNCPPTVABBNIYZUSLNTZH4Q/documents/generated/7051.pdf

Kauila *Colubrina oppositifolia* Endangered

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.
Species profile: https://ecos.fws.gov/ecp/species/850
General project design guidelines:
https://ipac.ecosphere.fws.gov/project/EB3XNCPPTVABBNIYZUSLNTZH4Q/documents/generated/7051.pdf

Ko`oko`olau *Bidens campylotheca ssp. pentamera* Endangered

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.
Species profile: https://ecos.fws.gov/ecp/species/1897
General project design guidelines:
https://ipac.ecosphere.fws.gov/project/EB3XNCPPTVABBNIYZUSLNTZH4Q/documents/generated/7060.pdf

Ko`oko`olau *Bidens campylotheca ssp. waihoiensis* Endangered

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.
Species profile: https://ecos.fws.gov/ecp/species/6450
General project design guidelines:
https://ipac.ecosphere.fws.gov/project/EB3XNCPPTVABBNIYZUSLNTZH4Q/documents/generated/7060.pdf

Ko`oko`olau *Bidens micrantha ssp. kalealaha* Endangered

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.
Species profile: https://ecos.fws.gov/ecp/species/7697
General project design guidelines:
https://ipac.ecosphere.fws.gov/project/EB3XNCPPTVABBNIYZUSLNTZH4Q/documents/generated/7060.pdf

Kuahiwi Laukahi *Plantago princeps* Endangered

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.
Species profile: https://ecos.fws.gov/ecp/species/4926
General project design guidelines:
https://ipac.ecosphere.fws.gov/project/EB3XNCPPTVABBNIYZUSLNTZH4Q/documents/generated/7051.pdf

Kulu`i *Nototrichium humile* Endangered

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.
Species profile: https://ecos.fws.gov/ecp/species/1001
General project design guidelines:
https://ipac.ecosphere.fws.gov/project/EB3XNCPPTVABBNIYZUSLNTZH4Q/documents/generated/7051.pdf

Lanai Sandalwood (=`iliahi) *Santalum haleakalae var. lanaiense* Endangered

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.
Species profile: https://ecos.fws.gov/ecp/species/3282
General project design guidelines:

NAME STATUS

https://ipac.ecosphere.fws.gov/project/EB3XNCPPTVABBNIYZUSLNTZH4Q/documents/generated/7051.pdf

Mahoe *Alectryon macrococcus* Endangered

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.
Species profile: https://ecos.fws.gov/ecp/species/2446
General project design guidelines:
https://ipac.ecosphere.fws.gov/project/EB3XNCPPTVABBNIYZUSLNTZH4Q/documents/generated/7051.pdf

Makou *Peucedanum sandwicense* Threatened

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.
Species profile: https://ecos.fws.gov/ecp/species/5579
General project design guidelines:
https://ipac.ecosphere.fws.gov/project/EB3XNCPPTVABBNIYZUSLNTZH4Q/documents/generated/7051.pdf

Mehamehame *Flueggea neowawraea* Endangered

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.
Species profile: https://ecos.fws.gov/ecp/species/109
General project design guidelines:
https://ipac.ecosphere.fws.gov/project/EB3XNCPPTVABBNIYZUSLNTZH4Q/documents/generated/7051.pdf

Neraudia sericea Endangered

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.
Species profile: https://ecos.fws.gov/ecp/species/2237
General project design guidelines:
https://ipac.ecosphere.fws.gov/project/EB3XNCPPTVABBNIYZUSLNTZH4Q/documents/generated/7051.pdf

Round-leaved Chaff-flower *Achyranthes splendens var. rotundata* Endangered

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.
Species profile: https://ecos.fws.gov/ecp/species/4709
General project design guidelines:
https://ipac.ecosphere.fws.gov/project/EB3XNCPPTVABBNIYZUSLNTZH4Q/documents/generated/7051.pdf

Schiedea hookeri Endangered

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.
Species profile: https://ecos.fws.gov/ecp/species/1705
General project design guidelines:
https://ipac.ecosphere.fws.gov/project/EB3XNCPPTVABBNIYZUSLNTZH4Q/documents/generated/7051.pdf

Spermolepis hawaiiensis Endangered

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.
Species profile: https://ecos.fws.gov/ecp/species/1670
General project design guidelines:
https://ipac.ecosphere.fws.gov/project/EB3XNCPPTVABBNIYZUSLNTZH4Q/documents/generated/7051.pdf

NAME	STATUS
Stenogyne angustifolia var. angustifolia	Endangered

No critical habitat has been designated for this species.
Species profile: https://ecos.fws.gov/ecp/species/1591
General project design guidelines:
https://ipac.ecosphere.fws.gov/project/EB3XNCPPTVABBNIYZUSLNTZH4Q/documents/generated/7060.pdf

Uhi Uhi *Mezoneuron kavaiense*	Endangered

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.
Species profile: https://ecos.fws.gov/ecp/species/7129
General project design guidelines:
https://ipac.ecosphere.fws.gov/project/EB3XNCPPTVABBNIYZUSLNTZH4Q/documents/generated/7051.pdf

Vigna o-wahuensis	Endangered

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.
Species profile: https://ecos.fws.gov/ecp/species/8445
General project design guidelines:
https://ipac.ecosphere.fws.gov/project/EB3XNCPPTVABBNIYZUSLNTZH4Q/documents/generated/7051.pdf

FERNS AND ALLIES

NAME	STATUS
Asplenium-leaved Diellia *Asplenium dielerectum*	Endangered

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.
Species profile: https://ecos.fws.gov/ecp/species/7361
General project design guidelines:
https://ipac.ecosphere.fws.gov/project/EB3XNCPPTVABBNIYZUSLNTZH4Q/documents/generated/7051.pdf

Microlepia strigosa var. mauiensis	Endangered

No critical habitat has been designated for this species.
Species profile: https://ecos.fws.gov/ecp/species/4737
General project design guidelines:
https://ipac.ecosphere.fws.gov/project/EB3XNCPPTVABBNIYZUSLNTZH4Q/documents/generated/7051.pdf

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

IPAC USER CONTACT INFORMATION

Agency: State of Hawaii
Name: Matthew Fernandez
Address: 2153 North King Street, Suite 200
City: Honolulu
State: HI
Zip: 96819
Email mfernandez@bowersandkubota.com
Phone: 8087413151

LEAD AGENCY CONTACT INFORMATION

Lead Agency: State of Hawaii

BOWERS + KUBOTA
Construction Management · A/E Design · Planning · Project Management

May 30, 2024

Mr. James Yrigoyen, Biologist
Maui Nui Team
Pacific Islands Fish and Wildlife Office
U.S. Fish and Wildlife Service
300 Ala Moana Blvd., Room 3-122
Honolulu, Hawai‘i 96850

Via Email: james_yrigoyen@fws.gov

SUBJECT: Kalama Intermediate School Modular Administration Building
Pre-Assessment Consultation for Environmental Assessment
TMK: (2) 2-4-032: 109
Makawao, Maui, Hawai‘i

Dear Mr. Yrigoyen,

Thank you for the July 25, 2023 email providing pre-assessment consultation comments associated with the preparation of an Environmental Assessment (EA) for the subject project.

Thank you for the information on how to process future consultations with the USFWS using the Information for Planning and Consultation (IPac) online tool. In addition, a flora and fauna study has been conducted to identify if any federally listed species exist in the project area and to assess the project's effect on the species. The study results have been incorporated in the Draft EA and the report included in the Appendices.

Thank you for providing us with your comments and participating in the process. If you have any questions, please contact me at (808) 836-7787 or mfernandez@bowersandkubota.com.

Sincerely,

Matthew Fernandez
Planner

From: Liu, Rouen
To: Matthew Fernandez
Cc: Kakazu, Lisa; Kuwaye, Kristen; Decker, Shayna; McNeff, Mathew
Subject: [External] EA Pre-consultation - Kalama Intermediate School Modular Administration Building Project
Date: Tuesday, July 25, 2023 2:09:25 PM
Attachments: bk.pdf

Dear Mr. Fernandez,

Thank you for the opportunity to comment on the subject project. Hawaiian Electric Company has no objection to the project. Should Hawaiian Electric have existing easements and facilities on the subject property, we will need continued access for maintenance of our facilities. We appreciate your efforts to keep us apprised of the subject project in the planning process. As the proposed Kalama Intermediate School project comes to fruition, please continue to keep us informed.

Please contact me at 808-772-2135 should there be any questions.

Rouen Liu (WA3 – PTA)
Permits Engineer
Hawaiian Electric Company
PO Box 2750
Honolulu Hawaii 96840-0001

BOWERS + KUBOTA
Construction Management · A/E Design · Planning · Project Management

May 30, 2024

Mr. Rouen Liu, Permits Engineer
Hawaiian Electric Company
P.O. Box 2750
Honolulu, Hawai‘i 96840

Via Email: Rouen.liu@hawaiianelectric.com

SUBJECT: Kalama Intermediate School Modular Administration Building
Pre-Assessment Consultation for Environmental Assessment
TMK: (2) 2-4-032: 109
Makawao, Maui, Hawai‘i

Dear Mr. Liu,

Thank you for the July 25, 2023 email providing pre-assessment consultation comments associated with the preparation of an Environmental Assessment (EA) for the subject project.

We confirm that HECO has no objections to the project and the information provided so far as part of the preassessment consultation for the project’s Draft EA.

We acknowledge that HECO would need continued access to its easements and facilities if any are within the project area. A copy of the Draft EA will be provided to HECO for review when published.

Thank you for providing us with your comments and participating in the process. If you have any questions, please contact me at (808) 836-7787 or mfernandez@bowersandkubota.com.

Sincerely,

Matthew Fernandez
Planner

From:	HT-Plan Reviews
To:	Matthew Fernandez; Farah Rajap
Cc:	HT-Plan Reviews; Gerry Sagucio; Ivan Akamine
Subject:	RE: [External] Pre-Assessment for EA, HRS Chapter 343 Kalama Intermediate School Modular Administration Building
Date:	Tuesday, August 8, 2023 10:40:58 AM
Attachments:	image002.png image003.png

[CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe]

Aloha Matthew,

Per Farah, HT has no comments at this time. Please, keep us posted if there is any progress/updates and let us know if you folks have any further questions as well. Thank you!

Greg Kawachi

Specialist – Structure Engineer

O: 808.546.7666

C: 808.779.8324

From: Matthew Fernandez <mfernandez@bowersandkubota.com>
Sent: Friday, July 21, 2023 10:41 AM
To: Greg Kawachi <Greg.Kawachi@hawaiiantel.com>; Farah Rajap <farah.rajap@hawaiiantel.com>
Cc: HT-Plan Reviews <HT-PlanReviews@hawaiiantel.com>; Gerry Sagucio <Gerry.Sagucio@hawaiiantel.com>; Ivan Akamine <Ivan.Akamine@hawaiiantel.com>
Subject: RE: Pre-Assessment for EA, HRS Chapter 343 Kalama Intermediate School Modular Administration Building

Aloha Greg,

Thank you for your response! We will keep you updated during the Kalama IS EA process. Also, apologies and noted, we will update your address in our files.

Mahalo,
Matt

Matthew Fernandez
Bowers + Kubota
HawaiiBusiness' 2023 Best Places to Work

Main Office: (808) 836-7787 / (808) 833-1841
Fax: (808) 834-4833

www.bowersandkubota.com

Please consider the environment before printing this e-mail

From: Greg Kawachi <Greg.Kawachi@hawaiiantel.com>
Sent: Thursday, July 20, 2023 3:48 PM
To: Matthew Fernandez <mfernandez@bowersandkubota.com>; Farah Rajap <farah.rajap@hawaiiantel.com>
Cc: HT-Plan Reviews <HT-PlanReviews@hawaiiantel.com>; Gerry Sagucio <Gerry.Sagucio@hawaiiantel.com>; Ivan Akamine <Ivan.Akamine@hawaiiantel.com>
Subject: [External] Pre-Assessment for EA, HRS Chapter 343 Kalama Intermediate School Modular Administration Building

Aloha Matthew,

We just wanted to reach out to you to confirm receipt of your letter regarding the Kalama Intermediate School Modular Admin Building. This has been assigned for review. Please, let us know if there are any updates along the way or if you folks have any further questions. Also, for future letters, can you please include "**Suite 17**" in the address? It got to us a little late due to them not knowing where to forward to. Thank you!

Greg Kawachi
Specialist – Structure Engineer
O: 808.546.7666
C: 808.779.8324

BOWERS + KUBOTA
Construction Management · A/E Design · Planning · Project Management

May 30, 2024

Mr. Greg Kawachi, Specialist Structure Engineer
Hawaiian Telcom
1177 Bishop Street, Suite 17
Honolulu, Hawai‘i 96813

Via Email: HT-PlanReviews@hawaiiantel.com

SUBJECT: Kalama Intermediate School Modular Administration Building
Pre-Assessment Consultation for Environmental Assessment
TMK: (2) 2-4-032: 109
Makawao, Maui, Hawai‘i

Dear Mr. Kawachi:

Thank you for the August 08, 2023 email providing pre-assessment consultation comments associated with the preparation of an Environmental Assessment (EA) for the subject project. We acknowledge that Hawaiian Telcom has no comments to offer at this time.

If you have any questions, please contact me at (808) 836-7787 or mfernandez@bowersandkubota.com.

Sincerely,

Matthew Fernandez
Planner

RICHARD T. BISSEN, JR.
Mayor

LORI TSUHAKO
Director

SAUMALU MATA'AFA
Deputy Director

DEPARTMENT OF HOUSING
& HUMAN CONCERNS
COUNTY OF MAUI
2200 MAIN STREET, SUITE 546
WAILUKU, MAUI, HAWAI'I 96793
PHONE: (808) 270-7805

July 19, 2023

Matthew Fernandez, Planner
Bowers + Kubota Consulting, Inc.
2153 N. King Street, Suite 200
Honolulu, Hawaii 96819-4554

Dear Mr. Fernandez:

SUBJECT: PRE-ASSESSMENT CONSULTATION FOR ENVIRONMENTAL ASSESSMENT, HRS CHAPTER 343, KALAMA INTERMEDIATE SCHOOL MODULAR ADMINISTRATION BUILDING PROJECT
TAX MAP KEY: (2) 2-4-032:109
MAKAWAO, MAUI, HAWAII

The Department has reviewed the information submitted for the above subject project. Based on our review, we have determined that the project is not subject to Chapter 2.96, Maui County Code, and does not require a residential workforce housing agreement. At the present time, the Department has no additional comments to offer.

Please contact Mr. Buddy Almeida, Housing Administrator at (808) 270-7351 if you have any questions.

Sincerely,

LORI TSUHAKO, LSW, ACSW
Director of Housing and Human Concerns

xc: Buddy Almeida, Housing Administrator

BOWERS + KUBOTA
Construction Management · A/E Design · Planning · Project Management

May 30, 2024

Ms. Lori Tsuhako, Director
Department of Housing and Human Concerns
County of Maui
2200 Main Street, Suite 546
Wailuku, Maui 96793

SUBJECT: Kalama Intermediate School Modular Administration Building
Pre-Assessment Consultation for Environmental Assessment
TMK: (2) 2-4-032: 109
Makawao, Maui, Hawai‘i

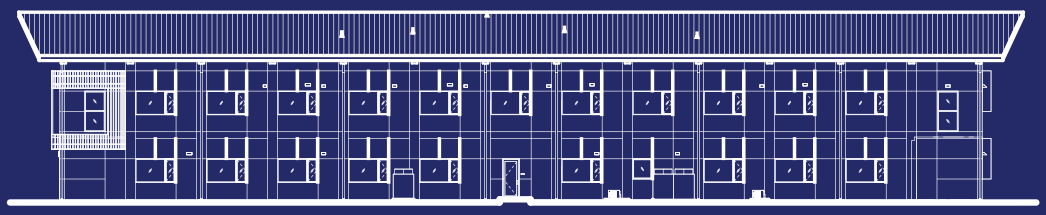
Dear Ms. Tsuhako:

Thank you for the July 19, 2023 letter providing pre-assessment consultation comments associated with the preparation of an Environmental Assessment for the subject project. We acknowledge that the project is not subject to Chapter 2.96 of the Maui County Code that would require a residential workforce housing agreement, and that the County Department of Housing and Human Concerns has no additional comments to offer at this time.

If you have any questions, please contact me at (808) 836-7787 or mfernandez@bowersandkubota.com.

Sincerely,

Matthew Fernandez
Planner



APPENDIX B
Flora and Fauna Survey Report

Kalama Intermediate School Modular Administration Building Flora and Fauna Survey Report

December 2023

Prepared by: SWCA Environmental Consultants

Kalama Intermediate School Modular Administration Building Flora and Fauna Survey Report

DECEMBER 2023

PREPARED FOR

Bowers and Kubota

PREPARED BY

SWCA Environmental Consultants

KALAMA INTERMEDIATE SCHOOL FLORA AND FAUNA SURVEY REPORT

Prepared for

Bowers and Kubota
Belt Collins Hawaii LLC
North King Street, Suite 200
Honolulu, HI 96819

Prepared by

SWCA Environmental Consultants
1200 Ala Moana Boulevard, #380
Honolulu, Hawai‘i 96814
(808) 548-7922
www.swca.com

December 2023

EXECUTIVE SUMMARY

Bowers + Kubota is preparing an environmental assessment for a new administration building planned to be erected on the campus of Kalama Intermediate School in Makawao on the Island of Maui. This report summarizes the findings of the biological resources survey conducted for the project by SWCA Environmental Consultants biologists on September 20, 2023. The survey area is located on the Kalama Intermediate School campus and covers approximately 0.4 acre. It will be 43 feet wide × 181 feet long and will contain offices, conference rooms, and a staff lounge.

The vegetation types and plant species identified during the survey are not considered unique. None of the plants seen during the survey are native, and so none are a federally or state-listed threatened or endangered species, a species proposed for listing, or a candidate species. Therefore, the proposed project is not expected to have a significant, adverse effect on terrestrial vegetation.

No federally or state-listed endangered birds were observed in the survey area. In total, two bird species were observed in the survey area, both of which are common, non-native, introduced bird species. No federally or state-listed endangered wildlife species were observed in or near the survey area; however, potential roosting trees for the Hawaiian hoary bat (*Lasiurus cinereus semotus*), a federally and state-listed endangered mammal, exist in the survey area. Mitigation recommendations to address potential roosting habitat are outlined in the report. The survey area does not overlap critical habitat of any listed terrestrial faunal species. For these reasons, the proposed project is not expected to have a significant, adverse effect on terrestrial wildlife.

This page intentionally left blank.

CONTENTS

Appendices

Figures

Tables

1 INTRODUCTION

Bowers + Kubota is preparing an environmental assessment for a new administration building planned to be erected on the campus of Kalama Intermediate School in Makawao in Maui County, Hawai‘i. This report summarizes the findings of the biological resources survey conducted for the project by SWCA Environmental Consultants (SWCA) biologists on September 20, 2023.

The two-story building is anticipated to cover approximately 0.4 acre. It will be 43 feet wide × 181 feet long and will contain offices, conference rooms, and a staff lounge. All vascular plant species (and their relative abundance), vegetation types, and wildlife species were recorded.

2 REGULATORY ENVIRONMENT

This section describes laws and regulations applicable to aquatic and terrestrial flora and fauna in the context of the project.

2.1 Endangered Species Act

The Endangered Species Act of 1973, as amended (ESA), is regulated by the U.S. Fish and Wildlife Service (USFWS) and the National Oceanic and Atmospheric Administration (NOAA) National Marine Fisheries Service (NMFS), and protects wildlife and plant species that have been listed as threatened or endangered. It is designed to conserve the ecosystems on which species depend. Candidate species, which may be listed in the near future, are not afforded protection under the ESA until they are formally listed as endangered or threatened. Section 9 of the ESA and rules promulgated under Section 4(d) of the ESA prohibit the unauthorized take of any endangered or threatened species of wildlife listed under the ESA. Under the ESA, the term *take* means “to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect species listed as endangered or threatened, or to attempt to engage in any such conduct.” As defined in regulations, the term *harm* means “an act that actually kills or injures wildlife; it may include significant habitat modification or degradation, which actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding, or sheltering” (50 Code of Federal Regulations [CFR] 17.3). The rules define *harass* to mean “an intentional or negligent act or omission that creates the likelihood of injury to wildlife by annoying it to such an extent, as to significantly disrupt normal behavior patterns, which include, but are not limited to, breeding, feeding, or sheltering” (50 CFR 17.3).

The ESA affords maximum legal protections to species listed as threatened or endangered under the law, and also provides authorization for incidental take permits for take that occurs incidental to otherwise legal operations. To comply with federal laws, additional measures must be taken to ensure that take of federally listed species does not occur. Any fatality of a listed species should be reported to the USFWS and the Hawai‘i Division of Forestry and Wildlife as soon as possible, and an incident report should be filed within 24 hours of detection.

The ESA also provides for the designation of critical habitat for listed species if there are areas of habitat believed to be essential to conservation of the species. Critical habitat can be designated for a single species or a group of species. A critical habitat designation does not necessarily restrict further development but prevents federal actions from destroying or adversely modifying that habitat.

2.2 Migratory Bird Treaty Act

The Migratory Bird Treaty Act of 1918, as amended (MBTA), is regulated by the USFWS and prohibits the take of migratory birds. A list of birds protected under MBTA is published under 50 CFR 10.13. Unless permitted by regulations, under the MBTA, "it is unlawful to pursue, hunt, take, capture or kill; attempt to take, capture or kill; possess, offer to sell, barter, purchase, deliver or cause to be shipped, exported, imported, transported, carried or received any migratory bird, part, nest, egg or product" (16 United States Code 703–712). The MBTA provides no process for authorizing incidental take of MBTA-protected birds. As a result, birds that are not covered under the ESA that may be adversely affected by the project cannot be covered by take authorizations. Regardless, incidental take of individual MBTA-protected species is unlikely to adversely affect MBTA-protected species as a whole; however, any take of MBTA-protected species should be documented and reported in a similar manner as any endangered or threatened species of wildlife listed under the ESA.

2.3 Hawai‘i Revised Statutes 195D

The purpose of Hawai‘i Revised Statutes (HRS) 195D is "to ensure the continued perpetuation of indigenous aquatic life, wildlife, and land plants, and their habitats for human enjoyment, for scientific purposes, and as members of ecosystems" and is regulated by the Hawai‘i Department of Land and Natural Resources Division of Forestry and Wildlife. HRS 195D-4 states that any endangered or threatened species of fish or wildlife recognized by the ESA shall be so deemed by the state statute. Like the ESA, the unauthorized take of such endangered or threatened species is prohibited (HRS 195-D-4(e)), but incidental take licenses can be obtained (HRS 195D-21). In addition to species protected under the ESA, rules adopted under HRS 195D-4 allow for the listing of indigenous species as threatened or endangered for the following reasons:

- Habitat destruction or alteration (current or predicted)
- Overexploitation
- Disease or predation
- Lack of regulatory mechanisms
- Other factors threatening the species' continued existence

Determinations are made based on all available sources of data (scientific, commercial, and other) and consultation with appropriate agencies (federal, state, and county) and interested organizations and parties.

3 LITERATURE REVIEW

SWCA performed a literature review during preparation of the field survey. The purpose of the literature review was to conduct a preliminary desktop habitat assessment to evaluate whether special-status species (or their habitats), and sensitive natural communities are known to occur in the survey area.

4 SITE INFORMATION

The survey area is within the *ahupua‘a* (land division) of Makawao in the *moku* (district) of Hāmākuapoko on the *mokupuni* (island) of Maui. The survey area occurs within the property of the Kalama Intermediate School in Makawao, and encompasses approximately 0.35 acre (0.14 hectare).

Annual rainfall for the survey area is approximately 61 inches (155 centimeters). Rainfall is typically highest November through April and lowest May through October (Giambelluca et al. 2013).

5 METHODS

SWCA reviewed available scientific and technical literature regarding natural resources in and near the survey area. This literature review encompassed a thorough search of referenced scientific journals, technical journals and reports, environmental assessments, environmental impact statements, relevant government documents, USFWS online data, and unpublished data that provide insight into the area's natural history and ecology. SWCA also reviewed available geospatial data, aerial photographs, and topographic maps of the survey area.

On September 20, 2023, two SWCA biologists conducted a comprehensive survey of the proposed construction area (Figure 1). The survey was conducted on foot and documented all vascular plant, vertebrate (birds, mammals, and amphibians), and macroinvertebrate (gastropods and arthropods) species within the survey area. These surveys specifically focused on locating populations of special-status species; however, specific acoustic surveys for the endangered Hawaiian hoary bat, or *ʻopeʻapeʻa* (*Lasiurus cinereus semotus*), were not conducted. Identification of birds was aided by 10 × 42–millimeter binoculars, as well as auditory vocalization identifications. Any signs of animals, such as scat or tracks, were noted. All vegetation types in the survey area were described and mapped in ArcGIS Field Maps on a Samsung Galaxy 2 tablet. Figures were created using ArcGIS Pro 2.7. Photographs were taken during the survey using an iPhone XR and Samsung Galaxy S20.

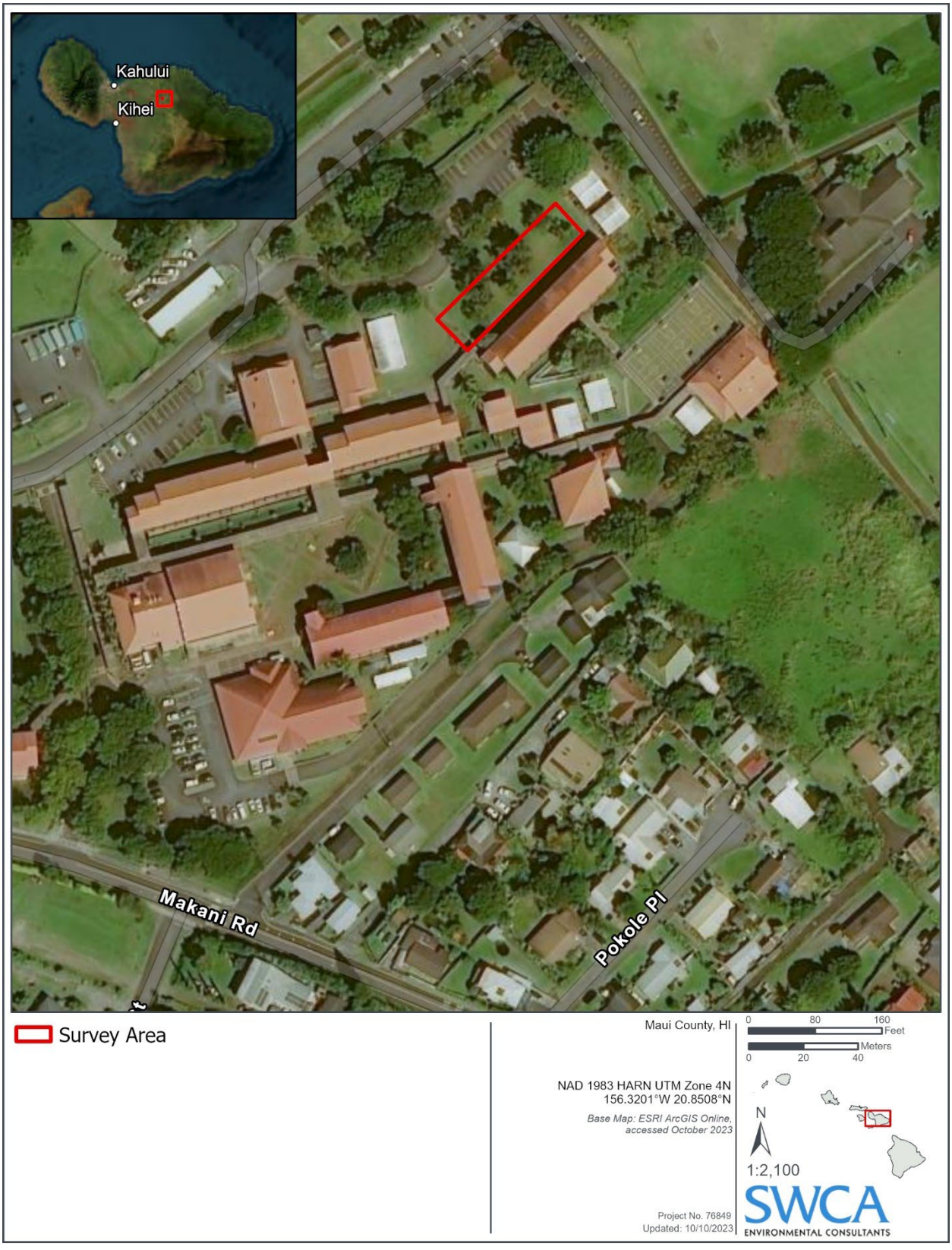


Figure 1. Proposed building site survey area.

6 RESULTS

6.1 Flora

In all, 12 plant species were recorded in the survey area, none of which are native to the Hawaiian Islands. No special-status plant species were observed in the survey area. Appendix A provides a list of all vascular plant species observed during the survey on September 20, 2023.

6.2 Vegetation and Land Cover Types

The vegetation in the survey area consists of two vegetation types—landscaped vegetation, and ruderal vegetation, described in detail below.

6.2.1 Landscaped Vegetation

Landscaped vegetation occurs as planted trees among the mowed areas, as well as some shrubs and herbaceous species along the edges. Some of the landscaped trees are Formosan koa (*Acacia confusa*) and *Senna siamea*; shrubs include ti (*Cordyline fruticosa*) and *Dracaena reflexa* (Figure 2).

Figure 2. Landscaped vegetation, including Formosan koa, and *Senna siamea* in the survey area.

6.2.2 Ruderal vegetation

The ruderal vegetation in the survey area consisted primarily of kikuyu grass (*Cenchrus clandestinus*). These areas are frequently mowed, and are experiencing a period of drought. Other herbaceous species were occasionally seen, such as creeping indigo (*Indigofera spicata*) and Guinea grass (*Urochloa maxima*) (Figure 3).

Figure 3. Typical view of ruderal vegetation in the survey area, with landscaped vegetation in the background.

6.3 Fauna

6.3.1 Avifauna

Two non-native bird species were observed during the survey (Table 1). Both of these species are common in disturbed mid-elevation areas on Maui.

Table 1. Birds Observed in and Near the Survey Area on September 20, 2023

Common Name	Scientific Name	Status*	MBTA Species (Yes or No)
Feral Chicken	*Gallus gallus*	NN	No
Zebra dove	*Geopelia striata*	NN	No

* NN = non-native permanent resident

Endangered Hawaiian waterbirds were not detected during the field survey, and the project footprint does not consist of potential foraging habitat such as lowland streams with herbaceous riparian vegetation or tidal mudflats that would support waterbird foraging.

Seabirds were not observed in the survey area but may potentially fly over the survey area to and from higher-elevation nesting areas during the seabird fledging period.

6.3.2 Mammals

Although the feral cat (*Felis catus*), feral pig (*Sus scrofa*), house mouse (*Mus musculus*), and rats (*Rattus* spp.) were not detected, they are likely to occur in the survey area. In addition, federally and state endangered Hawaiian hoary bat forage and roost habitat does occur in the survey area within the lanscaped vegetation type.

6.3.3 Terrestrial Reptiles and Amphibians

No reptiles or amphibians were detected. No terrestrial reptiles and amphibians are native to Hawai‘i.

6.3.4 Insects and Other Invertebrates

No native or non-native insects or other invertebrates were observed during the survey.

7 SPECIAL-STATUS SPECIES AND CRITICAL HABITAT

No special-status species were observed in the survey area.

7.1 Flora

No USFWS-designated critical habitat for federally endangered plant species was observed within the survey area.

8 DISCUSION AND RECOMENDATIONS

The following relevant avoidance and mitigation measures are provided to reduce or eliminate project-related impacts and to avoid adverse effects on special-status species. These measures should be implemented as part of the project.

8.1 Flora

The vegetation type and species identified during the survey are not considered unique, and no native plant species were recorded at the site, meaning none of them are threatened or endangered, proposed for listing, or a candidate plant. The proposed project is not expected to have a significant, adverse impact to botanical resources.

Weedy non-native plant species are common in the survey area. Most of these weedy species are widespread in Hawai‘i, and their control is not expected to result in a significant decrease in their number or distribution. However, construction activities are known to spread invasive species to new areas through the movement of vehicles and materials. For this reason, SWCA recommends the following invasive species minimization measures to avoid the unintentional introduction or transport of new terrestrial invasive species to Maui:

- All construction equipment and vehicles arriving from outside of Maui should be washed and inspected before entering the survey area.
- Construction materials arriving from outside of Maui should also be washed and/or visually inspected (as appropriate) for excessive debris, plant materials, and invasive or harmful non-native species (plants, amphibians, reptiles, and insects).
- Inspection and cleaning activities should be conducted at a designated location before entering the survey area. The inspectors should be qualified botanists and/or entomologists able to identify invasive species that are of concern relevant to the point of origin of the equipment, vehicle, or material.
- When possible, raw materials (e.g., gravel, rock, soil) should be purchased from a local supplier on Maui to avoid introducing non-native species not present on the island.
- If landscaping occurs as part of the project, native Hawaiian plants or non-invasive plants should be used to the maximum extent possible. Additional information on selecting appropriate (non-invasive) plants for landscaping can be obtained from the following online sources:
    - http://www.plantpono.org
    - http://www.hear.org/alternativestoinvasives/pdfs/mcaac_hpwra_a2i_list.pdf
    - http://www.hear.org/oisc/oahuearlydetectionproject/pdfs/oedposterwhatnottoplant.pdf

8.2 Fauna

8.2.1 Seabirds

Major threats to the endangered Hawaiian petrel (*Pterodroma sandwichensis*) and threatened Newell’s shearwater (*Puffinus newelli*) include the attraction of adults and newly fledged juveniles to bright lights while transiting between their nest sites and the ocean. Juvenile birds are particularly vulnerable to light attraction and are sometimes grounded when they become disoriented by lights (Mitchell et al. 2005). Many of these grounded birds are vulnerable to mammalian predators or to being struck by vehicles. The following recommendations are provided to avoid and minimize light attraction of the endangered Hawaiian petrel and threatened Newell’s shearwater to the survey area:

- Construction activity should be restricted to daylight hours as much as practicable during the seabird breeding season (April–November) to avoid the use of nighttime lighting that could attract seabirds.

- All outdoor lights should be shielded to prevent upward radiation. This has been shown to reduce the potential for seabird attraction (Reed et al. 1985; Telfer et al. 1987).
- Outside lights that are not needed for security and safety should be turned off from dusk through dawn during the fledgling fallout period (September 15–December 15).

8.2.2 Hawaiian Hoary Bat

Hawaiian hoary bats occur on Maui in native, non-native, agricultural, and developed landscapes (U.S. Department of Agriculture 2009; USFWS 1998). Hawaiian hoary bats forage in open, wooded, and linear habitats with a wide range of vegetation types. These animals are insectivores and are regularly observed foraging over streams, reservoirs, and wetlands up to 300 feet (100 meters [m]) offshore (U.S. Department of Agriculture 2009). Hawaiian hoary bats typically roost in trees greater than 16 feet (5 m) 1) with dense canopy foliage or 2) in the subcanopy when the canopy is sparse and there is open access for launching into flight (Gorresen et al. 2013; U.S. Department of Agriculture 2009). Hawaiian hoary bats have been documented roosting in mango trees (*Mangifera indica*) and may roost in other trees (e.g., hau) that occur in the survey area. In addition, the Hawaiian hoary bat could forage over the ruderal vegetation type and within the corridor created by the road.

Direct impacts to bats could occur during vegetation removal if a juvenile bat that is too small to fly but too large to be carried by a parent is present in a tree or branch that is cut down. To prevent direct impacts to the Hawaiian hoary bat, the following measures are recommended:

- No trees taller than 15 feet (4.6 m) in the survey area should be trimmed or removed between June 1 and September 15 when flightless juvenile bats may be roosting in the trees.
- Any fences that are erected as part of the project should have a barbless top-strand wire to prevent entanglements of the Hawaiian hoary bat on barbed wire.

Implementation of these measures, which have been promulgated by the USFWS (1998), is expected to result in avoidance of all direct impacts to Hawaiian hoary bats. Because all impacts to the Hawaiian hoary bat will be discountable, the proposed project *may affect, but is not likely to adversely affect*, individuals or populations of the species.

9 LITERATURE CITED

Giambelluca, T.W., Q. Chen, A.G. Frazier, J.P. Price, Y.L. Chen, P.S. Chu, J.K. Eischeid, and D.M. Delparte. 2013. Rainfall Atlas of Hawai'i. *Bulletin of the American Meteorological Society* (94) 313–316. Available at: http://rainfall.geography.hawaii.edu. Accessed September 28, 2023.

Gorresen M.P., F.J. Bonaccorso, C.A. Pinzari, C.M. Todd, K. Montoya-Aiona, and K. Brinck, K. 2013. *A Five-year Study of Hawaiian Hoary Bat (*Lasiurus cinereus semotus*) Occupancy on the Island of Hawai'i (HSCU-041).* Hilo, Hawai'i: Hawai'i Cooperative Studies Unit.

Mitchell, C., C. Ogura, D.W. Meadows, A. Kane, L. Strommer, S. Fretz, D. Leonard, and A. McClung. 2005. *Hawaii's Comprehensive Wildlife Conservation Strategy*. Department of Land and Natural Resources, Honolulu, Hawai'i. Available at http://dlnr.hawaii.gov/wildlife/files/2013/09/CWCS-Full-Document-2005Oct01.pdf. Accessed June 2023.

Reed, J.R., J.L. Sincock, and J.P. Hailman. 1985. Light attraction in endangered procelliariiform birds: Reduction by shielding upward radiation. Auk 102:377–383.

Staples, G.W., and D.R. Herbst. 2005. A tropical garden flora: plants cultivated in the Hawaiian Islands and other tropical places. Bishop Museum Press, Honolulu, 908 pp.

U.S. Department of Agriculture. 2009. Bats of the U.S. Pacific Islands. Biology Technical Note No. 20. Natural Resources Conservation Service, Pacific Islands Area.

U.S. Fish and Wildlife Service (USFWS). 1998. *Recovery Plan for the Hawaiian Hoary Bat* (Lasiurus cinereus semotus). Portland, Oregon: U.S. Fish and Wildlife Service.

Wagner, W.L., D.R. Herbst, N. Khan, and T. Flynn. 2012. *Hawaiian Vascular Plant Updates: A Supplement to the Manual of the Flowering Plants of Hawai'i and Hawai'i's Ferns and Fern Allies*. Version 1.3. Available at: https://naturalhistory2.si.edu/botany/hawaiianflora/Hawaiian_vascular_plant_updates_1.3.pdf. Accessed May 23, 2023.

Wagner, W.L., D.R. Herbst, and S.H. Sohmer. 1999. *Manual of the Flowering Plants of Hawai'i.* Volumes 1 and 2. Revised edition. Honolulu: University of Hawai'i Press.

This page intentionally left blank.

APPENDIX A

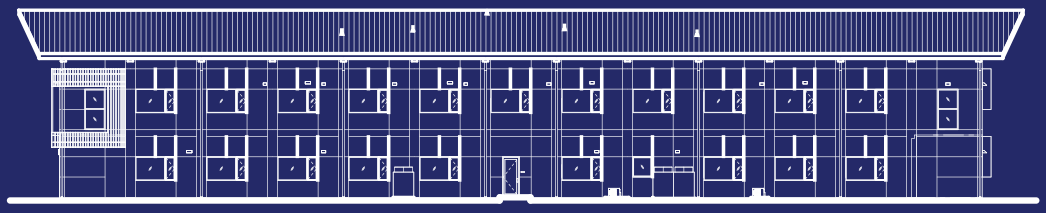
Survey Plant List

Table A-1 provides a checklist of plant species observed by SWCA on September 20, 2023, during survey of the Kalama Intermediate School flora and fauna survey area. The plant names are arranged alphabetically by family and then by species into two groups: monocots and dicots. The taxonomy and nomenclature of the flowering plants are in accordance with Wagner et al. (1999) and Staples and Herbst (2005). Recent name changes are those recorded in Wagner et al. (2012).

Table A-1. List of Vascular Plants Observed within the Proposed Survey Area on September 20, 2023

Family	Scientific Name and Authorship	Hawaiian and/or Common Name	Status*
Monocots			
Agavaceae	*Cordyline fruticosa* (L.) A.Chev.	kī, ti	P
Agavaceae	*Dracaena marginata* Lamarck		X*
Agavaceae	*Dracaena reflexa* Lamarck		X*
Poaceae	*Cenchrus clandestinus* (Hochst. ex Chiov.) Morrone	Kikuyu grass	X
Poaceae	*Eleusine indica* (L.) Gaertn.	wiregrass, mānienie aliʻi	X
Poaceae	*Urochloa maxima* (Jacq.) R.D.Webster	Guinea grass	X
Dicots			
Fabaceae	*Acacia confusa* Merr.	Formosa koa	X
Fabaceae	*Indigofera spicata* Forssk.	creeping indigo	X
Fabaceae	*Senna siamea* (Lam.) H.S.Irwin & Barneby		X
Plantaginaceae	*Plantago lanceolata* L.	narrow-leaved plantain, English plantain, buckhorn	X
Turneraceae	*Turnera ulmifolia* L.	yellow alder	X

Notes: P = Polynesian introduced, X = non-native, X* = non-native cultivated.



APPENDIX C
Archaeological Literature Review and Field Inspection

Literature Review and Field Inspection Study to Inform Environmental and Historic Preservation Compliance Review for the Department of Education Facilities Maintenance Branch and Maui High School Facilities Project

December 2023

Prepared by: SWCA Environmental Consultants

Archaeological Literature Review and Field Inspection for Kalama Intermediate School Modular Administration Building Project

Makawao Ahupua‘a, Hāmākuapoko District, Island of Maui, Tax Map Key (2) 2-4-032:109(por.)

DECEMBER 2023

PREPARED FOR

Bowers + Kubota Consulting, Inc.

and

State of Hawaii, Department of Education

PREPARED BY

SWCA Environmental Consultants

ARCHAEOLOGICAL LITERATURE REVIEW AND FIELD INSPECTION FOR KALAMA INTERMEDIATE SCHOOL MODULAR ADMINISTRATION BUILDING PROJECT

MAKAWAO AHUPUAʻA, HĀMĀKUAPOKO DISTRICT, ISLAND OF MAUI
TAX MAP KEY (2) 2-4-032:109(por.)

Prepared for

Bowers + Kubota Consulting, Inc.
2153 North King Street, Suite 200
Honolulu, Hawaiʻi 96819-4554
Attn: Matthew Fernandez

and

State of Hawaiʻi, Department of Education
1390 Miller Street
Honolulu, Hawaiʻi 96813

Prepared by

Ryan Gross, M.A.
Renée Whitehouse, B.A. and
Tamara Luthy, Ph.D.

Principal Investigator
Rowland Reeve, M.A.

SWCA Environmental Consultants
1200 Ala Moana Boulevard, Suite 380
Honolulu, Hawaiʻi 96814
(808) 548-7922
www.swca.com

SWCA Project No. P00076849-001-HON

SWCA Cultural Resources Report No. 23-843

December 2023

EXECUTIVE SUMMARY

At the request of Bowers + Kubota Consulting, Inc., and on behalf of the State of Hawaii, Department of Education, SWCA Environmental Consultants conducted an archaeological literature review and field inspection in support of the proposed Kalama Intermediate School Modular Administration Building Project. The project area is located on a portion of the Samuel E. Kalama Intermediate School campus on a portion of County of Maui Tax Map Key (2) 2-4-032:109(por.) within the *ahupua'a* (traditional land division) of Makawao in the traditional *moku* (district) of Hāmākuapoko on the Island of Maui. This study will support an Environmental Assessment being prepared for the project. The results of this literature review and field inspection will therefore support the Hawai'i State Historic Preservation Division's historic preservation review of the project under Hawaii Revised Statutes 6E-8.

The archaeological literature review indicated that no subsurface cultural deposits, archaeological sites, or human remains have been identified within a 500-meter (m) (0.3-mile) records search radius of the project area. Although three historic built environment resources are recorded within the records search radius, these are all situated several hundred meters from the project area and will not be impacted. No surface historic properties were anticipated to be encountered during the field inspection due to the significant prior land alterations associated with historic and modern commercial agriculture and the subsequent construction of the Kalama Intermediate School campus, which would have destroyed any evidence of surface historic properties.

The field inspection noted no surface historic properties present within or in the immediate vicinity of the project area. No subsurface cultural deposits or human remains are anticipated to be encountered during ground disturbing activities associated with the project due to the significant prior ground disturbance associated with decades of commercial agriculture, which likely disturbed soils to a depth of several feet below the ground surface. Subsequent grading, utility installation, and ground disturbances associated with construction of the school campus in the late-twentieth century would also likely have disturbed any subsurface cultural remains that might have been present. As no historic properties have been identified within the project area during this study, and none are anticipated to be encountered during the course of the project, no further archaeological work is recommended.

Report Citation:

Gross, Ryan, Renee Whitehouse, and Tamara Luthy. 2023. *Archaeological Literature Review and Field Inspection for Kalama Intermediate School Modular Administrative Building Project.* Prepared for Bowers + Kubota Consulting, Inc., and the State of Hawaii, Department of Education. SWCA Environmental Consultants, Honolulu, Hawai'i.

CONTENTS

Figures

1 INTRODUCTION

At the request of Bowers + Kubota Consulting, Inc., and on behalf of the State of Hawaii, Department of Education (DOE), SWCA Environmental Consultants (SWCA) conducted an archaeological literature review and field inspection in support of the proposed Kalama Intermediate School Modular Administration Building project. The project area is located on a portion of the Kalama Intermediate School campus within the *ahupua'a* (traditional land division) of Makawao in the traditional *moku* (district) of Hāmākuapoko on the Island of Maui (Figure 1).

This study was conducted to support an Environmental Assessment (EA) being prepared for the project. The results of this literature review and field inspection will therefore support the Hawai'i State Historic Preservation Division's (SHPD's) historic preservation review of the project under Hawaii Revised Statutes 6E-8.

The research for this literature review was conducted by SWCA archaeologist Renee Whitehouse, M.A., and project manager Ryan Gross, M.A., RPA. The field inspection was performed by project manager Francis Quitazol, B.A. Rowland Reeve, M.A., served as Principal Investigator for the project and provided quality control review of deliverables. All work was conducted under SWCA's SHPD-approved Permit to Conduct Archaeological Activities in the State of Hawai'i Number 23-22.

1.1 Project Description

The DOE has contracted with Bowers + Kubota Consulting, Inc., to manage the engineering and environmental compliance aspects of the Kalama Intermediate School Modular Administration Building Project, which proposes to construct a new two-story administration building that will contain staff offices, conference rooms, a health room, and a staff lounge. The project will also involve ground disturbances to construct connecting pathways and provide extensions for existing electrical, communications, water, sewer, and drainage utilities to service the building. The project will not involve constructing new driveways or roadways. The archaeological investigations conducted in support of this project consisted of archival research, a field inspection of the project area, and the preparation of this report.

This archaeological literature review and field inspection report will accompany the Hawaii Revised Statutes 6E-8 submittal form and other supporting documentation for the project that will be submitted to the SHPD through their Hawai'i Cultural Resources Information System (HICRIS).

1.2 Project Area

The project area is located on the Kalama Intermediate School campus at 120 Makani Road, Makawao, Hawai'i 96768. It comprises a portion of County of Maui Tax Map Key (TMK) (2) 2-4-032:109(por.) within the ahupua'a of Makawao (Figure 2). The approximately 10.5-acre subject parcel is bounded by Eddie Tam Memorial Park to the north, Hale Kipa Road to the west, residential homes to the east, and Makani Road to the south. The project area is situated entirely within a maintained lawn area on the northeastern portion of the campus, adjacent to the existing Building O (constructed in 1986) and a parking lot. The proposed new administration building will occupy a footprint measuring 43 feet wide by 181 feet long.

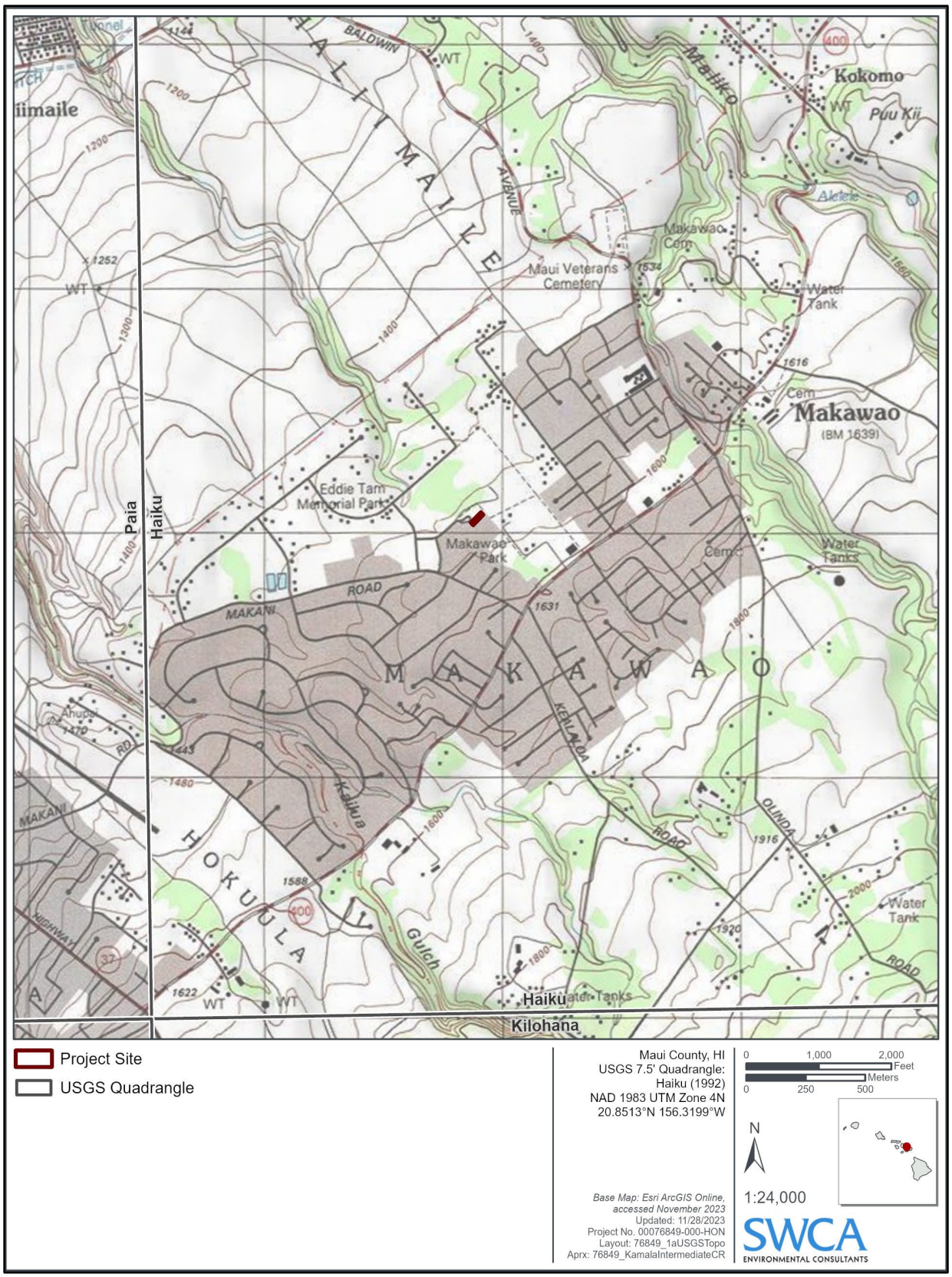


Figure 1. The project area depicted on a portion of the U.S. Geological Survey 7.5-minute Haiku quadrangle (1992).

Figure 2. The project area and surrounding TMKs depicted on satellite imagery.

1.3 Report Organization

This report is composed of five principal sections. Following this **Introduction** (Section 1), which presents the background of the project, its purpose, and the location and extent of the project area, is an **Environmental Setting** section (Section 2) that provides information on the natural and built environments of the project area. The **Archival Research** section (Section 3) presents the methods of archival research into the available cultural and historical documents relating to the project area, as well as a cultural and land use history of the project area. This section also includes summary descriptions and results of previous archaeological investigations conducted within the vicinity of the project area. The **Field Inspection** section (Section 4) describes the field methodologies and results of the archaeological field inspection conducted as part of this study. The **Summary and Recommendations** section (Section 5) presents an overview of the efforts and findings of this study and archaeological recommendations for the project.

The **Glossary of Hawaiian Terms** provides a list of Hawaiian words used in this report and their definitions, and the **References Cited** lists the references cited in the report.

2 ENVIRONMENTAL SETTING

The project area is situated in the central–east portion of Maui on the northwestern slope of Haleakalā volcano at an elevation of approximately 468 m (1,535 feet) above mean sea level. The shoreline at Pā‘ia Bay is situated approximately 9.75 kilometers (km) (approximately 6 miles) to the northwest.

2.1 Geology and Soils

The underlying geology of the project area has been shaped by lava flows belonging to the Kula Volcanics series (Okul). These are Pleistocene- and Holocene-era flows associated with the creation of the Haleakalā volcano (Sherrod et al. 2021). The soils covering the project area are mapped as Haliimaile silty clay loam (HgB and HgC) and Haliimaile silty clay (HhC) (Natural Resources Conservation Service [NRCS] 2023) (Figure 3), which occur on slopes with a range of 3 to 15 percent. These Haliimaile series subtypes are classified as well drained with medium runoff and slight to moderate erosional potential (NRCS 2023). The soil series is classified as prime farmland if irrigated and has been used in other areas for sugarcane, pineapple, and pasture (NRCS 2023).

2.2 Climate and Hydrology

The project area is situated on the leeward shoulder of Haleakalā. Mean annual rainfall within the region is approximately 132 centimeters (approximately 52 inches) (Giambelluca et al. 2013). Rainfall is typically greatest between November and April and is lowest from May to October (Giambelluca et al. 2013). The mean annual temperature is approximately 20.5 degrees Celsius (68.9 degrees Fahrenheit) (Giambelluca et al. 2014). There are also various man-made water features in the region, mostly reservoirs and ditches built to irrigate sugarcane plantations. The nearest surface water is Kailua Gulch situated approximately 1 km (0.62 mile) southwest of the project area, which contains an ephemeral stream.

2.3 Vegetation

Although the upland slopes of Haleakalā contain both wet and dry forest ecosystems, the present vegetation within the project area reflects its heavily modified environment. Much of the area consists of a maintained lawn of ruderal grass, primarily kikuyu grass (*Cenchrus clandestinus*), with landscaped trees including Formosan koa (*Acacia confusa*) and *Senna siamea*. Plantings of shrubs are also present including *kī* (ti) (*Cordyline fruticosa*) and “Song of India” (*Dracaena reflexa*).

2.4 Traditional Environmental Zones

The project area is situated on the slopes of Halaekalā. During the pre-Contact period, the project area likely fell within the traditional environmental zone known as *kula uka* (upland plains), the stretch of drier upland slopes watered by the winter rains (Handy et al. 1991:738). These were areas of inland cultivation of dryland crops such as ‘*uala* (sweet potatoes) and *uhi* (yam) (*Dioscorea alata*). It formed the major component of traditional agriculture inland and dryland field systems (Kelly 1983:47–50; Malo 1951:17; Pukui and Elbert 1971:25).

The project area likely rested just *makai* (seaward) of the *wao kānaka*. The wao kānaka was the area of the forest that was most heavily under human management. Here, small portions of forest were given over to agriculture and scattered habitation. Hawaiian historian David Malo said of the wao kānaka, “here grows the amau fern and here men cultivate the land” (Malo 1951:17). Historical land records

occasionally reference fields of dryland *kalo* (taro, *Colocasia esculenta*) or *mai'a* (banana, *Musa* x *paradisiaca*) planted "in the forest." Indigenous and Polynesian introduced trees were harvested for cultural purposes such as timber for houses and canoes, and medicinal plants were gathered (Pukui and Elbert 1971:353, Handy et al. 1972:56, and Winter and Lucas 2017:460-464).

2.5 Built Environment

The terrain of the project area was graded and leveled during construction of the intermediate school campus. The campus consists of a mix of classrooms and other low-rise structures, tree-shaded lawns, and playing fields (see Figure 2).

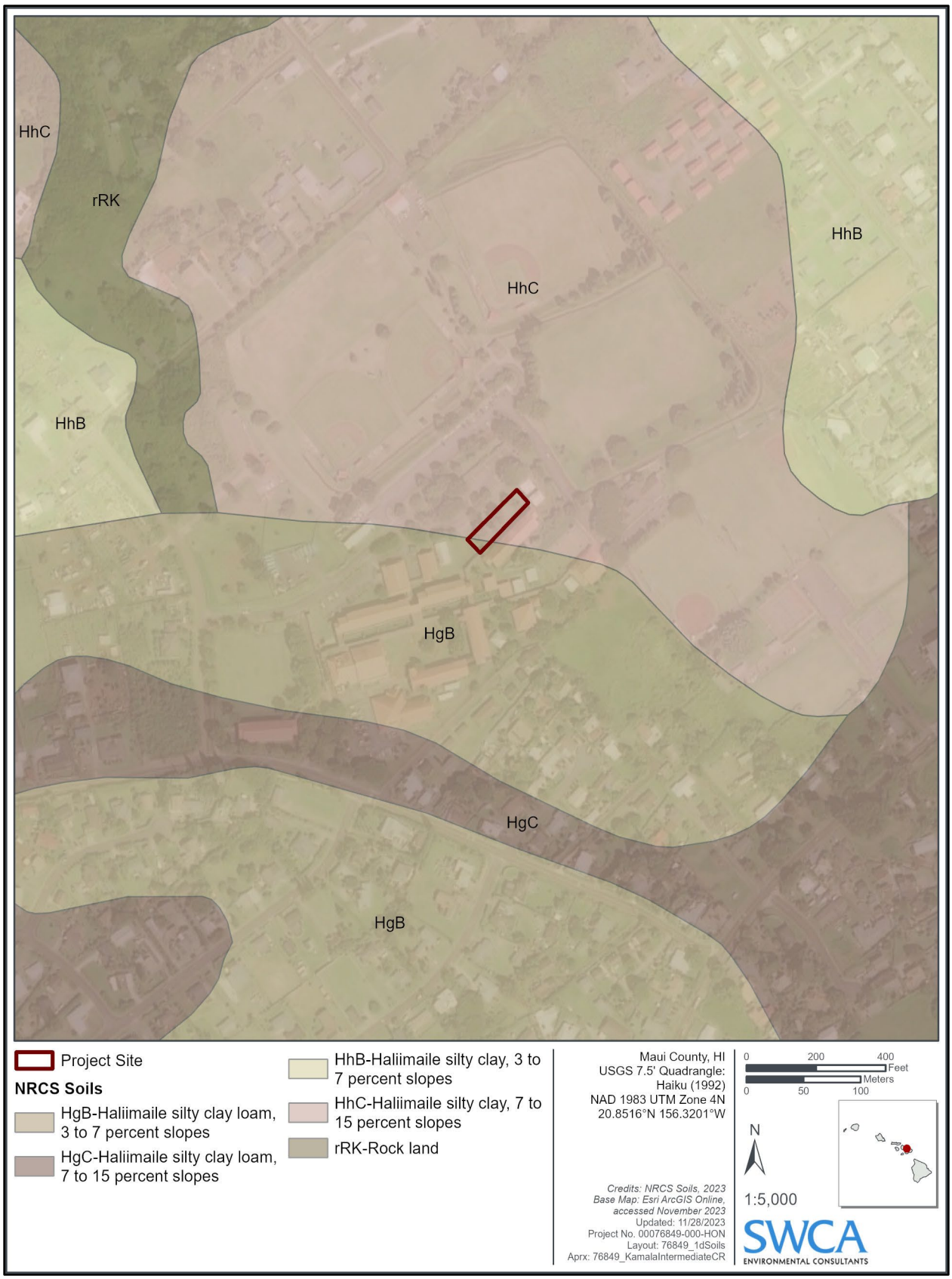


Figure 3. Project area and vicinity depicted on NRCS (2023) soils map.

3 ARCHIVAL RESEARCH

The following sections draw information from ethnohistoric accounts and historic sources to present an overview of the cultural and historical background of the project area and vicinity, along with a summary of the archaeological context and expected findings based on a review of the existing archaeological literature.

3.1 Research Methods

Archival research consisted of a review of sources including historic documents and reference volumes in the collections of various libraries and archives, as well as SWCA's internal reference library. Historical maps were obtained from the State of Hawaii's Department of Accounting and General Services website, and historic aerial photographs were obtained from the University of Hawai'i at Mānoa Library's Maps, Aerial Photographs, and GIS (MAGIS) website. A records search request was submitted to the SHPD Library on June 16, 2023, to assess if historic properties or previous archaeological investigations were conducted within the project area or 500-m records search radius that was established for the project.

3.2 Cultural and Historic Background

The following section provides a brief overview of the cultural and historic background of the project area, focused on the traditional Hawaiian and post-Contact historical land use of the area.

3.2.1 Place Name: Makawao

The *wahi inoa* (place name) *Makawao* translates literally to "forest beginning" (Pukui et al. 1974:142) and is related to the location of Makawao on the northwestern foot slopes of the highest mountain on Maui, Haleakalā. Upland forests would have been prevalent at elevations in and above this area.

3.2.2 Traditional Land Divisions

The landlocked ahupua'a of Makawao rests within the traditional moku of Hāmākuapoko. In common with several others in this part of Maui, these are not typical ahupua'a, which usually trend from the mountains to the sea. The modern boundaries of Hāmākuapoko, which contain two other ahupua'a (Hāmākuapoko and Hali'imaile) makai of Makawao, were established in the historic period. Prior to the Māhele and the standardization of the land division system of the Hawaiian Kingdom (see Section 3.2.5 below), Hāmākuapoko, Hali'imaile, and Makawao were individual moku each containing multiple ahupua'a. During the Māhele these moku were relegated to ahupua'a status and merged to form the moku of Hāmākuapoko (Gonschor and Beamer 2014:66).

3.2.3 Traditional Land Use

Many of the traditional Hawaiian land use activities that took place in the project area and vicinity left little, if any, trace on the archaeological record. Hawaiians hunted birds, harvested trees for lumber, and gathered other natural resources from the forested slopes of Haleakalā, including wood from the *'iliahi* (sandalwood) (*Santalum haleakalae*), which was used to produce tools and perfume *kapa* (bark cloth), and *koa* (*Acacia koa*) and *'ōhi'a lehua* (*Metrosideros macropus*), which were used to construct canoes and houses. These practices, however, would have been more likely to occur in the more *mauka* (inland) lands to the east of Makawao and outside the project area.

The rich soils in the coastal region and kula lands of Haleakalā, including Makawao, allowed pre-Contact Hawaiians to practice dryland agriculture in the region, including *ʻuala* (sweet potato) (*Ipomoea batatas*) as described by Handy (1940):

> …on the lower westward slopes of Haleakala a considerable population existed fishing and raising occasional crops of potatoes along the coast, cultivating large crops of potatoes inland, especially in the central and northeastern section including Keokea, Waiohuli, Koheo, Kaunoulu, and Waiakoa, where rainfall dawn round the northwest slope of Haleakala increased towards Makawao. (Handy 1940:161)

3.2.4 Early Post-Contact Accounts

Centuries after Polynesian voyagers first settled the islands, Europeans exploring the Pacific made contact with the people who lived there. Within decades following Western Contact, missionaries, farmers, whalers, and tourists were traveling to the islands to start new lives and businesses, and to see the sights.

The first visit to the upland region of Haleakalā by non-Hawaiians occurred in August 1828 when missionaries Lorrin Andrews and Reverend Jonathan Green, along with Dr. Gerrit P. Judd, a physician, visited the crater of Haleakalā. Green subsequently settled in Makawao where he founded the Poʻokela Church in 1850. In his letter to The American Missionary Association, Green (1850) described selecting the site for the structure and the plans for funding and construction:

> Today I met my people at the marker about a mile distant from my house to select a site for a meeting house. This place is quite central and will accommodate more people than my other place in my field. It is a beautiful, God-made country, having groves of the koa and the kukui in the vicinity, We surveyed the ground and made arrangements for building and looked to God for His blessing on the enterprise. The people contributed last year about $800 which they paid at once. They designed to pay as much this year and we were to have a wooden house. But on account of the depression of the times, the great scarcity of money, most of the people are unable to contribute. We have therefore determined to build a stone house as the people can procure the stone, sand, lime, timber… having carts and oxen, and they can put up the walls with their own hands. They seem very cheerful and if they hold on and put up the walls, they will be able with the funds which they have on hand to finish or nearly so at once. We shall in this way be likely to obtain a more substantial house and at less cost in money to the people. (Green 1850)

The establishment of the Poʻokela Church in Makawao attracted people to settle in the area. Its presence, along with the fertility of the soil, led to an increase in population and the growth of a small settlement.

The Polynesian, a newspaper publication of the Hawaiian Government, frequently featured articles by both residents and visitors that offered readers glimpses into the happenings and developments in island communities, and recommendations for sightseeing. The editor of the paper, James Jarves, was a prolific writer and contributed many descriptive pieces. Among his writings was a series of articles from the 1840s describing a trip from Lahaina to Haleakalā by way of the kula lands of Kahului and Hāmākuapoko, and on up the slopes through Hāliʻimaile and Makawao:

> …Makawao is more than sufficiently watered by rain, but the soil is too porous to allow of streams. Bathing spots, such as they are as to extent, are to be found among the rocky beds of some of the ravines. The drinking water is most lusciously cool and limpid.... The roads are excellent in several directions both for carriages and horses for many miles. There may be good fishing at the beach and gunning among the hills for aught I know… At present, beside the patches of the natives who cultivate this region tolerably extensively, Mr. McLane's is the only plantation. It occupies a most delightful situation. His house – and a real Yankeefied look it has, with its red sides and porticoed front, stands in the midst of a koa grove… well kept fields of cane

> extend in front of the house over 100 acres; fences enclose it in part and separate it from verdant pasture ground; corn and pumpkins have their allotted space; clumps of trees here and there resemble orchards… (Jarves 1846, as cited in Maly and Maly 2001:46–47).

3.2.5 Māhele ʻĀina

A dramatic change that affected the lives of Hawaiians in the 1840s was the *Māhele ʻĀina* (land division, also known as the Great Māhele or simply the Māhele), which put an end to the traditional system of land tenure and ushered in private ownership. Under the traditional system, the *makaʻāinana* (common people) occupied and worked the land under the supervision of the *aliʻi* (individual of chiefly blood) and their *konohiki* (land stewards). The chiefs in turn held the land in trust for the *aliʻi nui* (high chief), who held it in trust for the *akua* (the gods). The Māhele, instituted by Kamehameha III, legalized the private ownership of land along the Western model, legislating that the lands of the Hawaiian Kingdom were to be "divided into three parts—one to the Chiefs, one for the support of the Government, and a third for the King's personal use. These we know by the names of 'Konohiki,' 'Government' and 'Crown Lands'" (Indices of Awards 1929:vii). It was principally from within the chief's "one-third of the Great Māhele that the common people, who were their tenants, received title to the small holdings which are known as 'Kuleanas.' These Kuleanas were areas which these tenants had improved and used for their own purposes" (Indices of Awards 1929:vii).

The Land Commission was established in 1885 to investigate land claims and make awards based on their supporting testimony. If a claim was approved by the Land Commission, a Land Commission Award was granted to the claimant. Each claim was assigned a *helu* (number). Often a single kuleana claim consisted of multiple ʻāpana (land divisions). An index of these claims can be found in *Indices of Awards Made by the Board of Commissioners to Quiet Land Titles in the Hawaiian Islands* prepared in 1929 (Indices of Awards 1929).

During the Māhele, the lands of Makawao were given to the Crown. Some of these Crown lands were later sold to private individuals as grants (Figure 4). In 1850, the project area was purchased by John T. Gower, a surveyor for the Kingdom, as a portion of a 404-acre Royal Patent grant (Helu 216) (Lee Greig et al. 2023:87). The land granted to Gower is shown on an 1872 Hawaiian Government Survey map (Lyons 1872) (Figure 5). Gower was a store owner, rancher, and sugar planter during the early development of Makawao (MacLennan 1995:42–43).

3.2.6 Post-Contact Changes in Land Use

After land was distributed by Land Commission Awards and grants, ranches and sugar and pineapple plantations were established. These areas would be further divided by private interests and eventually housing developments.

Sugar and pineapple plantations were established in east Maui in the latter half of the nineteenth century. The Alexander and Baldwin Sugar Company, founded in 1869, planted sugar cane on 561 acres of land between Pāʻia and Makawao, and the plantation expanded rapidly. The land in the vicinity was also used as pasturelands associated with Haleakala Ranch, which was also owned by Alexander & Baldwin (Siler 2014). In the early twentieth century the demand for sugar and beef declined and were replaced by large pineapple plantations.

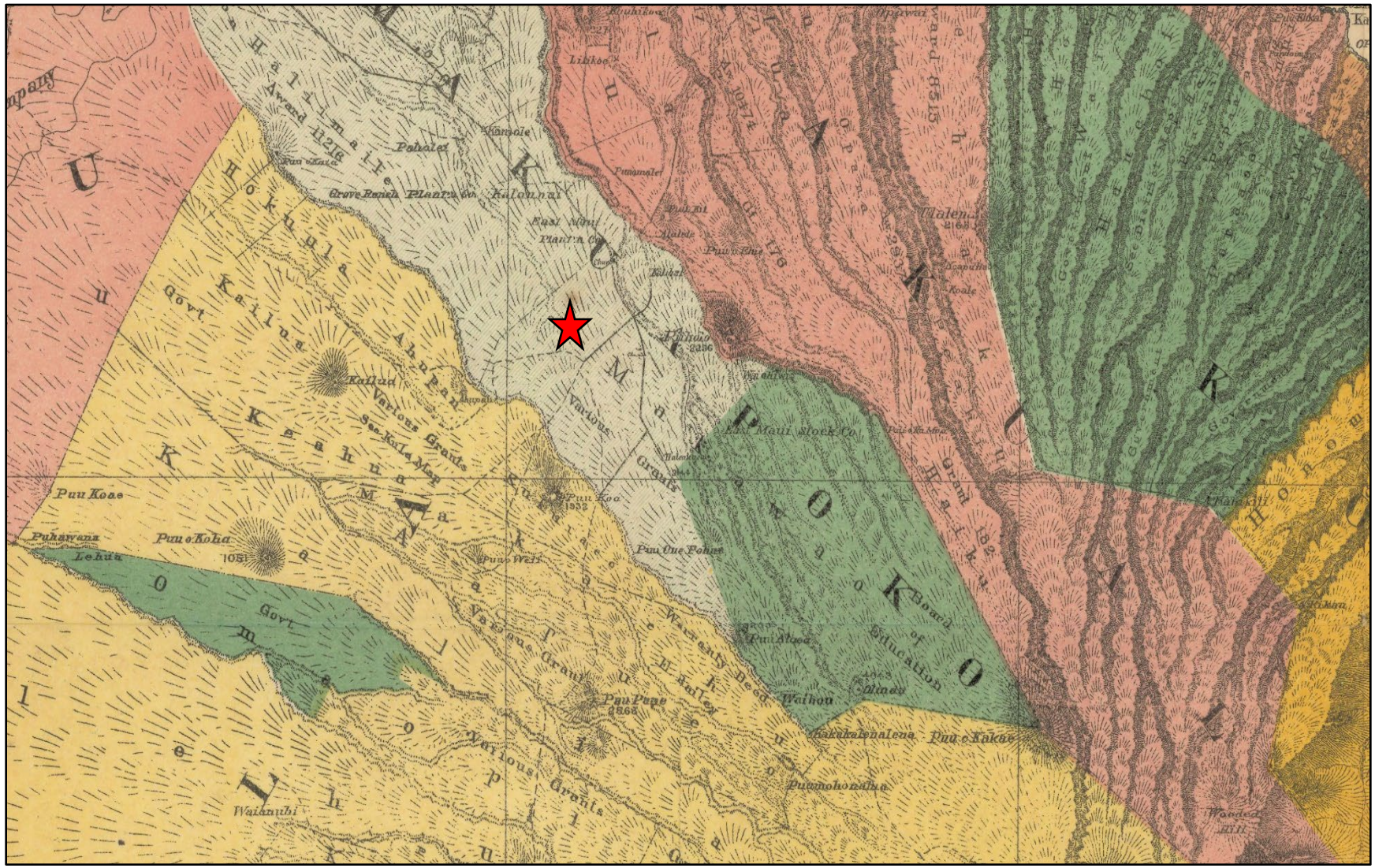


Figure 4. Portion of an 1885 map of Maui (Dodge 1885) depicting the approximate location of the project area (denoted with a red star) and color-coded ownership of surrounding lands (gold is crown land, dark green is government land, gray and pink are privately owned land).

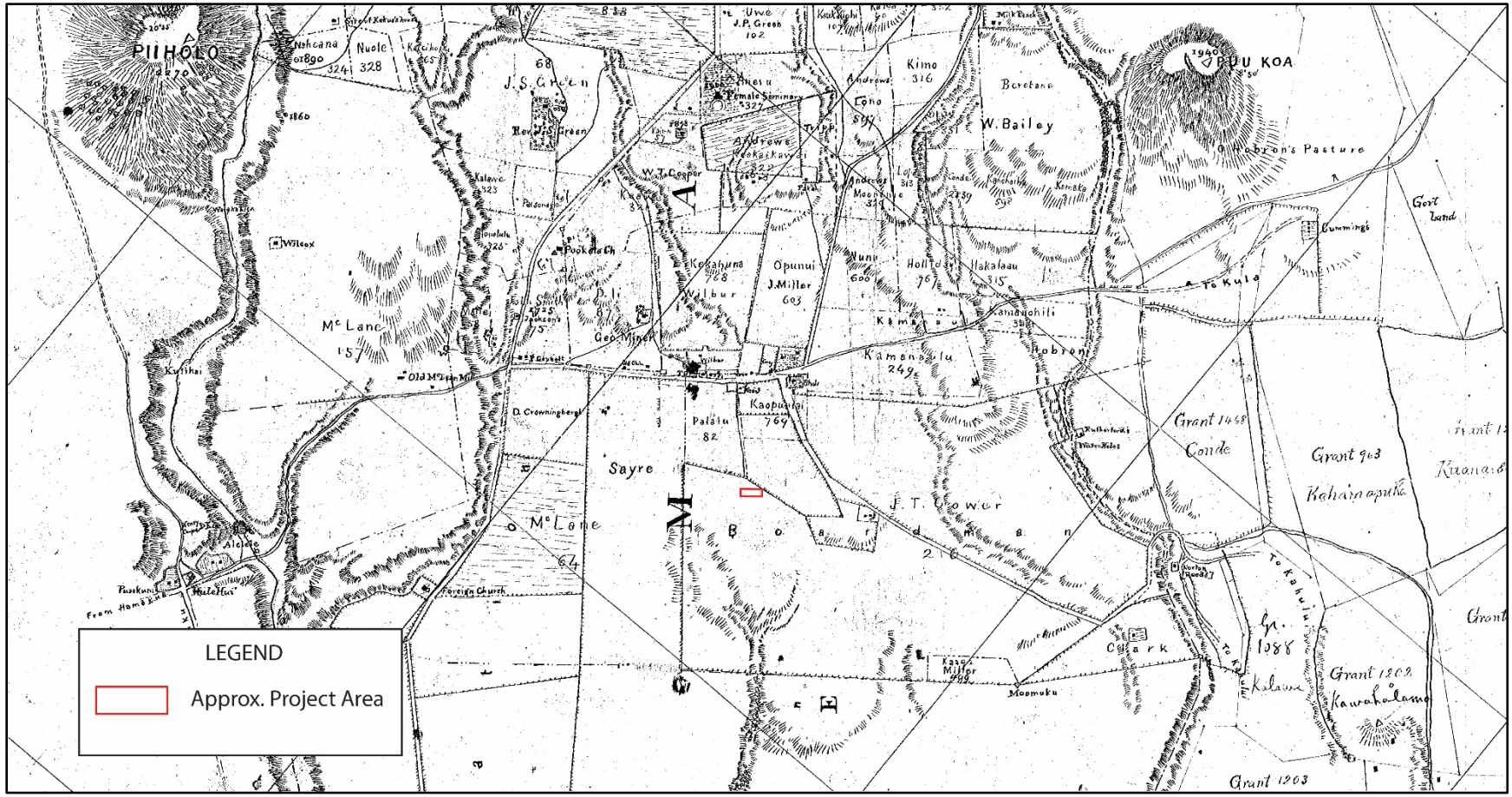


Figure 5. Portion of C. J. Lyons' 1872 map of Makawao (Hawai'i Registered Map 0603) depicting the approximate location of the project area within John T. Gower's Royal Patent grant 216 (Lyons 1872).

3.2.6.1 RANCHING

In the mid-nineteenth century, Haleakala Ranch was established approximately 2 km (1.3 miles) south–southeast of the project area. It was initially a 16.5-acre parcel purchased in 1869 by H.P. Baldwin (Siler 2014). The ranch was formally incorporated by the crown on September 1, 1888, and grew to a size of 33,817 acres (Harrison 2013). In 1924, the California Packing Company began planting pineapple on a portion of the ranch and 5 years later, in 1929, the pineapple operations became the Maui Pineapple Company, while livestock operations continued at Haleakala Ranch (Harrison 2013).

Within the vicinity of the project area itself, John T. Gower ran some cattle on the land he had purchased from the government. He also established a small sugar plantation, though it did not survive very long.

3.2.6.2 SUGAR CANE

Sugar had been grown on Maui as early as 1828, and by the 1850s the plantation economy in Hawai‘i was still small. However, following the Civil War, sugar production within the Islands increased rapidly (MacLennan 1997:98). The fastest growth of the sugar industry occurred on Maui, which by 1866 had 12 plantations compared to Hawai‘i Island’s eight, O‘ahu’s six, and Kaua‘i’s four. During this time, Maui produced more than half the toal sugar grown in Hawai‘i (MacLennan 1997:98).

The Reciprocity Treaty of 1875 permitted the duty-free trade of sugar between the Kingdom of Hawai‘i and the United States, making Hawaiian sugar immensely profitable (Kuykendall 1967:46–48). From 1867 to 1879, the four Makawao plantations shared irrigation systems and cooperated to grind each other’s sugar when mills broke down (MacLennan 1997:102). The Makawao region was active in early sugar experimentation and often worked with the Haiku Sugar Company in sharing their larger mill and the water supply flowing through the Hāmākua ditch after it was built in 1871 (MacLennan 1997:103). The industry remained stable for two decades and all four plantations were still in business in 1880 (MacLennan 1997:104). The dynamic changed, however, when Charles Spreckels founded the Hawaiian Sugar & Commercial Company in 1882, which became the largest mill in the archipelago (MacLennan 1997:104). With its large influence, Makawao was one of five plantation centers in Hawai‘i that propelled the Kingdom into the nineteenth-century world economy (MacLennan 1997:98).

3.2.6.3 PINEAPPLE LANDS

In the latter half of the nineteenth century pineapple joined sugar cane as a major commercial crop on Maui. Like sugar, the commercial cultivation of pineapples impacted Maui’s landscape. Although many sugar plantations in the lower saddle area between Halaekalā and the West Maui Mountains were still active into the modern era, sugar grown in the uplands was gradually displaced by pineapple fields in the early twentieth century. The pineapple industry began on Maui in 1890 with Dwight D. Baldwin’s Haiku Fruit and Packing Company on the northeast side of the island (Maui County 2008). The pineapple industry grew steadily and by 1930, over 28 percent of Maui’s cultivated lands were planted in pineapple (Lind 1938).

3.2.6.4 RECENT DEVELOPMENT OF THE PROJECT AREA AND VICINITY

Many new businesses opened in Makawao during the early years of the twentieth century to support the growing industries of the region, and the area was ethnically diverse (Uechi 2018). The project area is situated on the northern outskirts of the growing town and was located within what appears to be a field planted in pineapple as shown on historic photographs from the mid-twentieth century. A historic aerial photograph from 1951 shows the boundaries of Makawao town well established amongst the larger agricultural region (Figure 6), and by 1976 the town had continued to develop within these boundaries

(Figure 7). The project area appears to have gone out of cultivation by this time. Kalama Intermediate School was constructed beginning in the early to mid-1980s, with the school opening in 1985 (HIDOE 2023). The school buildings are not over fifty years in age and do not qualify as historic properties.

3.2.7 Land Use Summary

Although archival research did not definitively identify specific traditional Hawaiian or early post-Contact land uses in practice within the project area during the pre-Contact and early historic periods, by the mid-twentieth century the project area was developed as an agricultural field planted in pineapple (see Figure 6). Prior to this time, livestock grazing and sugar cane cultivation may have been practiced in the project area and immediate vicinity, which was situated on the northern edge of Makawao, between the residential and commercial areas of the town to the south and agricultural fields to the north. The agricultural areas surrounding the project area were subsequently developed as parks and athletic fields (see Figure 2), whereas the project area itself was developed as part of the school campus in the late-twentieth century.

Figure 6. Historic aerial photograph (U.S. Geological Survey 1950) depicting the project area planted in pineapple.

Figure 7. Historic aerial photograph (U.S. Geological Survey 1976) depicting the project area in an undeveloped field and mid-twentieth century development in Makawao.

3.3 Archaeological Context

The archaeological context for the project was established through a review of previous cultural resources studies conducted within a 500-m (0.3 mile) records search radius of the project area. A records search request conducted at the SHPD Library on June 16, 2023, indicated that three archaeological studies were previously conducted within the records search radius, although none included the project area (Figure 8). Summaries of the results of these studies are provided below.

3.3.1 Hill et al. (2008)

In 2008, Hill et al. (2008) conducted a literature review and field inspection for proposed roadway improvements along portions of Makawao Avenue and Makani Road (see Figure 8). Four potential historic properties were recorded along Makawao Avenue during the field inspection. These included a cut-basalt brick retaining wall, a stacked rock wall "mostly in a state of collapse" (Hill et al. 2008:52), a second historic stacked rock wall which "has been modified over the years by the addition of concrete patches, sections showing modern repairs, and the further addition of a driveway" (Hill et al. 2008:53), and cut basalt brick road curbing on the east side of Makawao Avenue.

3.3.2 Jin and Dega (2022, 2023)

In 2021, another literature review and field inspection (Jin and Dega 2022) was conducted along Makawao Avenue that included a portion of the Hill et al. (2008) project area (see Figure 8). The field inspection initially identified 13 potential historic features including concrete and dry stacked rock retaining and boundary walls, concrete piers and a utility pole rail, the Makawao Ranch Acres sign, and basalt curbstones. It was later realized that several of these potential historic resources were outside the boundaries of the study.

Jin and Dega subsequently conducted an archaeological inventory survey (Jin and Dega 2023) for the same project along Makawao Avenue (see Figure 8). During the Jin and Dega (2023) survey, the basalt curbstones and wall segments originally documented by Hill et al. (2008) were designated as State Inventory of Historic Places (SIHP) Site 50-50-06-08907 (Makawao Avenue).

3.3.3 Summary of Previous Archaeology

No historic properties have been recorded within the project area or subject parcel, whereas three historic properties were identified within the 500-m records search radius (Figure 9). These include two historic homes (SIHP Sites 50-50-06-01551 and 50-50-05-01639) located on Makawao Avenue which are listed on both the National and Hawai‘i Registers of Historic Places. The segment of Makawao Avenue that trends through the southern portion of the records search radius is also designated as a historic property (SIHP Site 50-50-06-08907). These three historic properties identified within the records search radius are located approximately 375 to 400 m (1,230 to 1,640 feet) southeast of the project area and will not be impacted by the project.

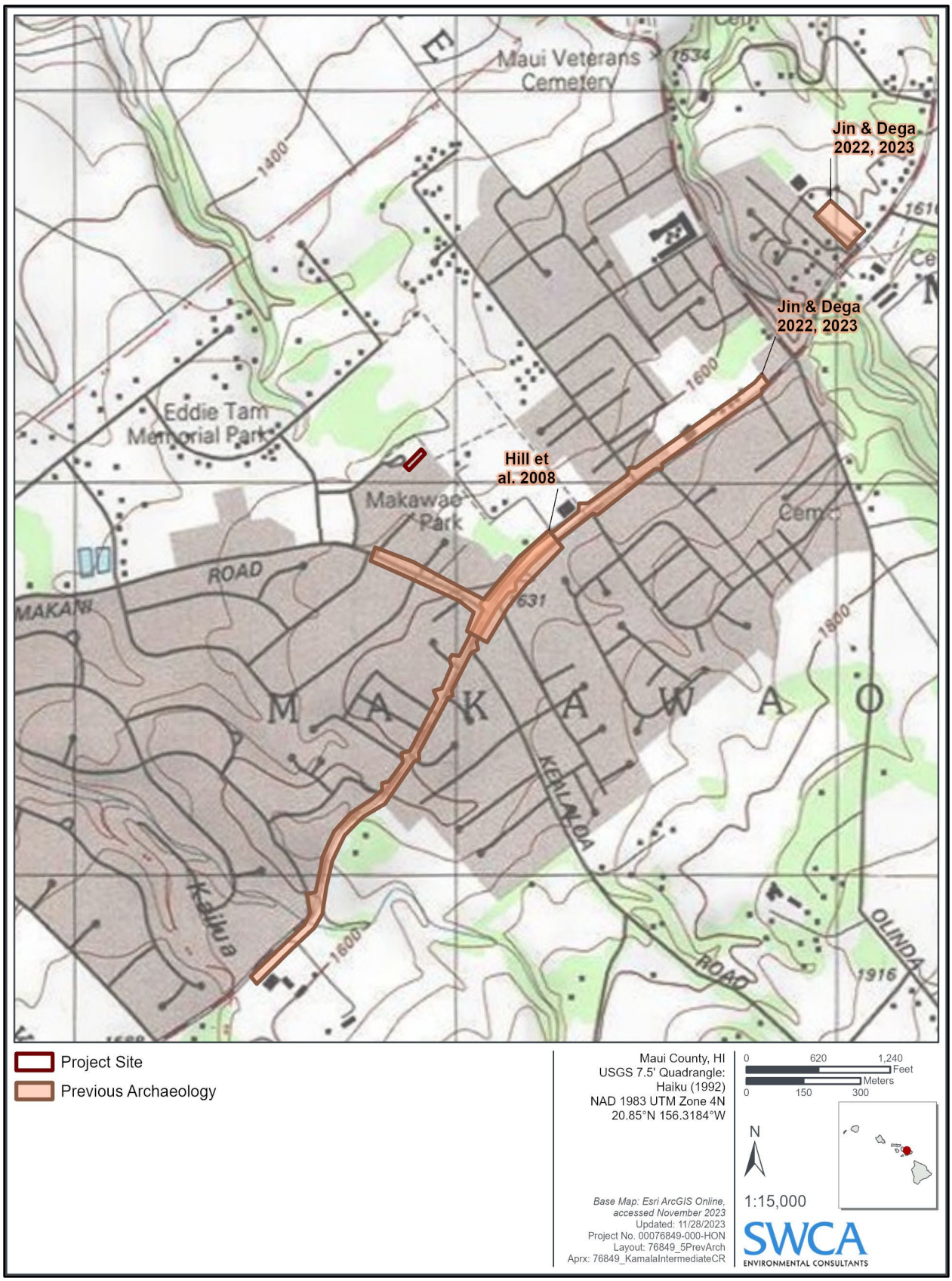


Figure 8. Previous archaeological studies conducted within the 500-m records search radius.

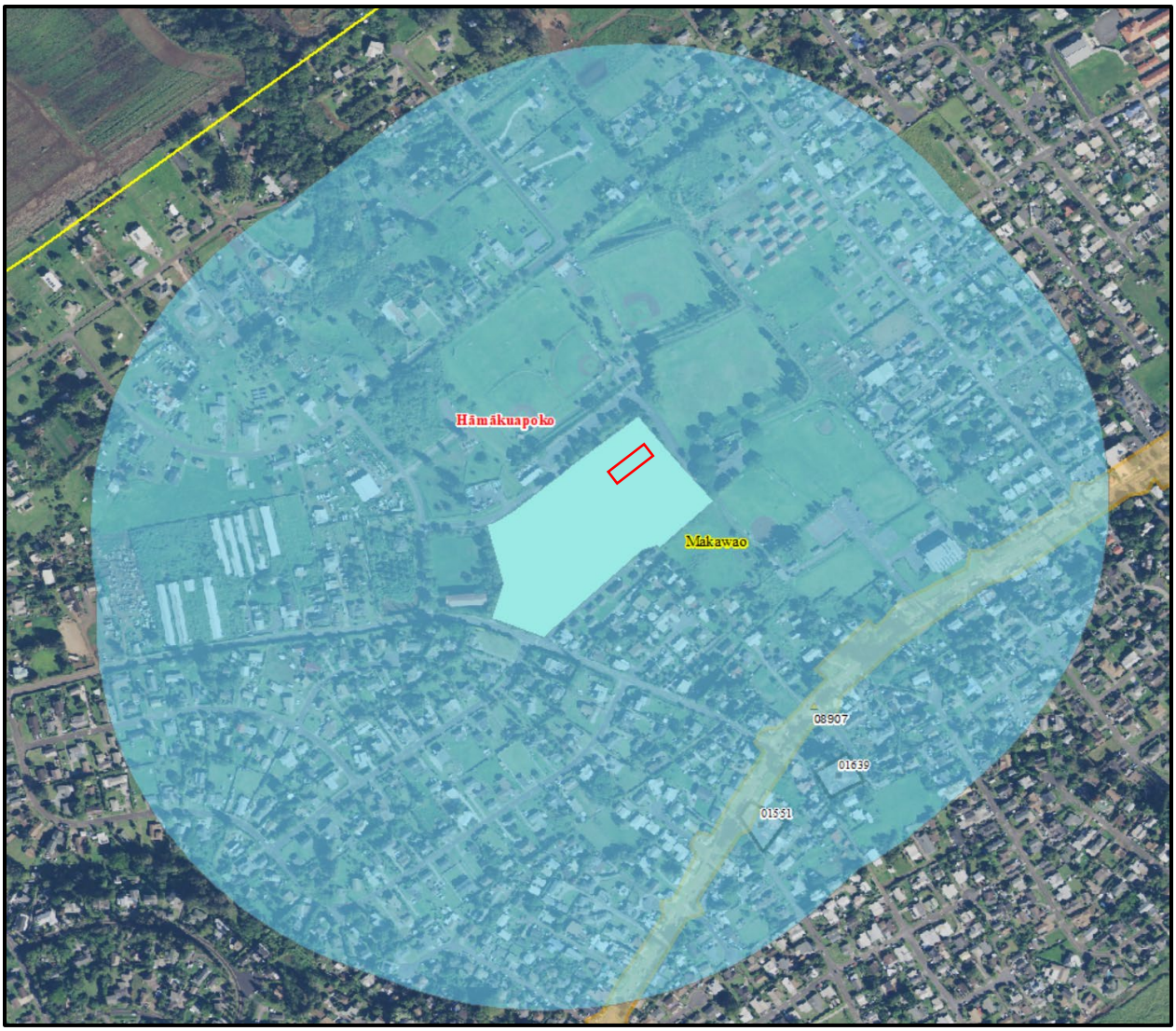


Figure 9. Satellite image showing project area outlined in red within the subject parcel and historic properties identified within the 500-m records search radius (map courtesy of the SHPD).

3.3.4 Expected Findings

Given this background research, no surface historic properties were anticipated to be encountered during the field inspection due to the significant prior land alterations associated with historic and modern commercial agriculture and the subsequent construction of the intermediate school campus. The archaeological literature review indicated that no subsurface cultural deposits, archaeological sites, or human remains have been identified within the 500-m (0.3-mile) records search radius. Traditional Hawaiian archaeological sites in the vicinity of Makawao are generally found to have survived only in gulches or other undeveloped areas (Jin and Dega 2023:40). Although three historic-era resources are recorded within the records search radius (see Figure 9), these are all situated several hundred meters from the project area and will not be impacted by the project.

4 FIELD INSPECTION

An archaeological field inspection of the project area was conducted on September 20, 2023, by SWCA project manager Francis Quitazol, B.A. The purpose of the field inspection was to identify potential surface historic properties in the project area, and if present, to determine whether they could potentially be impacted by the project.

4.1 Field Methods

The archaeological field inspection consisted of a 100 percent pedestrian survey of the project area. Photographs were taken to document the current site conditions.

4.2 Findings

No surface historic properties, archaeological features, or cultural materials were identified during the field inspection. Evidence of prior grading was evident throughout the project area, as the original ground surface had been leveled prior to the construction of the school campus. The project area consists of a maintained lawn with landscaped tree plantings (Figure 10). Permanent and modular buildings, sidewalks, and a parking area are situated along the perimeter of the project area (Figure 11). Evidence of prior ground disturbances included the presence of subsurface utilities consisting of irrigation, sewer, electrical, and fire control system components (Figure 12, Figure 13, and Figure 14).

Figure 10. Tree plantings within maintained lawn area in central portion of project area, view to the east.

Figure 11. Overview of project area showing Building O along right side of frame, modular buildings in background, and adjacent parking area, view to the northeast.

Figure 12. Dry standpipe monument near southwest corner of project area, view to the southeast.

Figure 13. Sanitary sewer manhole in central portion of project area, view to the west.

Figure 14. Fire hydrant outside northwestern project area boundary and sanitary sewer manhole within project area, indicated with white arrows, view facing north.

5 SUMMARY AND RECOMMENDATIONS

At the request of Bowers + Kubota Consulting, Inc., and on behalf of the HIDOE, SWCA completed this archaeological literature review and field inspection for the Kalama Intermediate School Modular Administration Building Project. The literature review demonstrated that no known historic properties are located within the project area and a field inspection of the project area did not identify any surface historic properties.

No new historic properties are anticipated to be encountered during ground disturbing activities associated with the project. This is due to significant prior ground disturbances associated with decades of commercial agriculture within the project area, which would have destroyed evidence of surface historic properties and likely disturbed soils to a depth of several feet below the surface. Grading, utility installation, and ground disturbances associated with construction of the Kalama Intermediate School campus in the late-twentieth century also impacted the project area. Further, no traditional Hawaiian subsurface cultural deposits, archaeological sites, or human remains have been identified within 500 m (0.3 mile) of the project area. As no historic properties have been identified during this study, and none are anticipated to be encountered during the project, no further archaeological work is recommended.

6 GLOSSARY OF HAWAIIAN TERMS

ahupua‘a	traditional land division usually extending from the mountains to the sea and encompassing a range of environmental zones that were known and used by the land’s early Hawaiian residents. It was so called because the boundary was marked by a heap (*ahu*) of stones surmounted by an image of a pig (*pua‘a*), or because a pig or other tribute was laid on the altar as tax to the chief.
akua	the gods
ali‘i	chief, individual of chiefly blood
ali‘i nui	high chief
‘āpa‘a	arid, dry; dry area,
‘āpana	piece, a parcel forming part of a kuleana land division
heiau	traditional temple or shrine
helu	number, referring to the number of a Land Commission Award parcel
kalo	taro (*Colocasia esculenta*)
kapa	bark cloth
koa	the largest of native forest trees *(Acacia koa),* with light-gray bark, crescent-shaped leaves, and white flowers in small, round heads.
konohiki	land stewards, sometimes minor *ali‘i*
‘iliahi	sandalwood (*Santalum haleakalae*)
Māhele ‘Aina	land division, also known as the Great Mahele
mai‘a	banana (*Musa* × *paradisiaca*)
maka‘āinana	common people
makai	toward the sea
mākāhā	outlets
Makawao	forest beginning
mauka	toward the mountains (inland)
moku	district, land section or island
‘ōhi‘a lehua	the flower of the ‘ōhi‘a tree (*Metrosideros macropus, M. collina* ssp. *polymorpha*); the tree itself
paniolo	cowboy
‘uala	sweet potato (*Ipomoea batatas*)
uhi	yam (*Dioscorea alata*)
wahi inoa	place name
wao kānaka	an inland region where people may live or occasionally frequent
wao nāhele	realms of traditionally uninhabited wilderness

7 REFERENCES CITED

Giambelluca, T. W., Q. Chen, A. G. Frazier, J. P. Price, Y.-L. Chen, P.-S. Chu, J. K. Eischeid, and D. M. Delparte
2013 Online Rainfall Atlas of Hawai‘i. *Bulletin of the American Meteorological Society* 94:313–316.

Giambelluca, T. W., X. Shuai, M. L. Barnes, R. J. Alliss, R. J. Longman, T. Miura, Q. Chen, A. G. Frazier, R. G. Mudd, L. Cuo, and A. D. Businger
2014 *Evapotranspiration of Hawai‘i*. Final report submitted to the U.S. Army Corps of Engineers Honolulu District, and the Commission on Water Resource Management, State of Hawai‘i.

Gonschor, L., and K. Beamer
2014 Toward an Inventory of Ahupua‘a in the Hawaiian Kingdom: A Survey of 19th and Early 20th Century Cartographic and Archival Records of the Island of Hawaii. *The Hawaiian Journal of History* 48:53–87.

Green, Jonathan S.
1850 Letter to the American Missionary Association. July 4, 1850. Available at: https://www.makawaomuseum.org/digexhibits/pookela-church#:~:text=The%20Po%60okela%20Church%20is,past%20of%20this%20historic%20site.

Handy, E.S. Craighill
1940 *The Hawaiian Planter.* Bishop Museum Bulletin, 161. Bernice Pauahi Bishop Museum, Honolulu.

Handy, E. S. Craighill, and Elizabeth Green Handy, with the collaboration of Mary Kawena Pukui
1991 *Native Planters in Old Hawaii: Their Life, Lore, and Environment*. Bernice P. Bishop Museum Bulletin 233. Bishop Museum Press, Honolulu, Hawai‘i.

Harrison, John
2013 *Haleakala Ranch Celebrating the 125th Anniversary*. Barbara Pope Book Design, China.

State of Hawaii Department of Education
2023 History. *Kalama Intermediate School.* Available at: https://www.kalama.k12.hi.us/apps/pages/index.jsp?uREC_ID=1476881&type=d&pREC_ID=2137876. Accessed December 2023.

Hill, Robert, Tanya Lee-Greig, and Hallett H. Hammatt
2008 *An Archaeological Literature Review and Field Inspection Report for the Proposed Makawao Avenue and Makani Road Improvements Hāmākua Poko Ahupua‘a, Makawao District, Maui Island. TMK: (2) 2-4-006:034, TMK: (2) 2-4-018:022.* Cultural Surveys Hawai‘i, Inc., Wailuku.

Indices of Awards
1929 Indices of Awards Made by the Board of Land Commissioners to Quiet Land Titles in the Hawaiian Islands. Office of the Commissioner of Public Lands of the Territory of Hawai‘i. Star Bulletin Press, Honolulu, Territory of Hawai‘i.

Jin, Chong, and Michael F. Dega
2022 *An Archaeological Literature Review and Field Inspection for the Makawao Avenue Pavement Rehabilitation Project in Makawao Ahupua'a, Makawao District, Island of Maui [TMK: (2) 2-4-006, (2) 2-4-007, (2) 2-4-009, (2) 2-4-018, (2) 2-4-021, (2) 2-4-022, (2) 2-4-024, (2) 2-4-028, (2) 2-4-029, (2) 2-4-031, (2) 2-4-036, and (2) 2-4-017:021]*. [Draft] Scientific Consultant Services Inc., Honolulu, Hawai'i.

2023 *An Archaeological Inventory Survey for the Makawao Avenue Pavement Rehabilitation Project (Milepost 0.8 to Ai Street) Makawao Ahupua'a Makawao District, Island of Maui [TMK: (2) 2-4-006; (2) 2-4-007; (2) 2-4-009; (2) 2-4-018; (2) 2-4-021; (2) 2-4-022; (2) 2-4-024; (2) 2-4-028; (2) 2-4-029; (2) 2-4-031; (2) 2-4-036 (Makawao Avenue ROWs); and (2) 2-4-017:021 por.]* Scientific Consultant Services Inc., Honolulu, Hawai'i.

Kelly, Marion
1983 *Nā Mala O Kona: Gardens of Kona. A History of Land Use in Kona, Hawai'i*. Departmental Report Series 83-2. Department of Anthropology, Bernice P. Bishop Museum, Honolulu, Hawai'i.

Kuykendall, Ralph S.
1967 *The Hawaiian Kingdom Vol. III, 1874-1893, The Kalakaua Dynasty.* University of Hawai'i Press: Honolulu

Lee-Greig, Tanya, Angel Melone, and Kaiani Kiaha
2023 *Draft Cultural Impact Assessment for the Baldwin Beach Park Adaptation Plan, Hāmākuapoko Moku, Makawao Modern Tax District, Maui Island TMK (2) 2-5-005:0046, 0047, 014 and 2-6-001:001.* Prepared for Maui County Department of Parks and Recreation. Under Contract to PBR Hawaii & Associates, Inc. 'Āina Archaeology., Kīhei, 'Āina Archaeology.

Lind, Andrew W.
1938 *An Island Community: Ecological Succession in Hawaii.* Greenwood Press Publishers, New York, New York.

Lyons, C. J.
1872 *Makawao, Maui. Hawaiian Government Survey, W. D. Alexander, Surveyor General, Triangulations and Boundaries by W. D. Alexander, J. Lidgate, Assistant, Topography by C. J. Lyons and J. Brown, Map by C. J. Lyons, 1872*. Registered Map 0603. Map on file at the Hawai'i State Survey Office. Available at: https://dags.hawaii.gov/maps/search/files/reg/Reg_0001-0999/Reg0603WIDEencaps.pdf. Accessed December 2023.

MacLennan, C. A.
1995 Foundation's of Sugar's Power: Early Maui Plantations, 1840-1860." *The Hawaiian Journal of History* 29:33-56.

1997 *Hawai'i Turns to Sugar: the Rise of the Plantation Centers, 1860-1880.* Hawaiian Journal of History, Volume 31. Hawaiian Historical Society, Honolulu. Available at: http://hdl.handle.net/10524/601. Accessed December 2023.

Malo, David
1951 *Hawaiian Antiquities (Moolelo Hawaii)*. Translated by Nathaniel B. Emerson. Bishop Museum Special Publication 2. Bishop Museum Press, Honolulu, Hawai'i.

Maly, Kepā, and Onaona Maly
2001 *Wai O Ke Ola: He Wahi Moʻolelo no Maui Hikina A Collection of Native Traditions and Historical Accounts of the Lands of Hāmākua Poko, Hāmākua Loa and Koʻolau, Maui Hikina (East Maui), Island of Maui.* Volume I. Kumu Pono Associates, Hilo, Hawaiʻi.

Maui County
2008 Maui Island History. *Draft Maui Island Plan, Volume I – Background.* Available at: https://www.mauicounty.gov/DocumentCenter/View/3231/History?bidId=. Accessed November 2023.

Natural Resources Conservation Service (NRCS)
2023 Web Soil Survey. Available at: http://websoilsurvey.sc.egov.usda.gov/. Accessed September 12, 2023.

Pukui, M. K., and S. H. Elbert
1971 *Hawaiian dictionary: Hawaiian-English English-Hawaiian*. University of Hawaiʻi Press, Honolulu.

Pukui, Mary Kawena, Samuel Elbert, and Esther Mookini
1974 *Place Names of Hawaii*. University of Hawaiʻi Press, Honolulu.

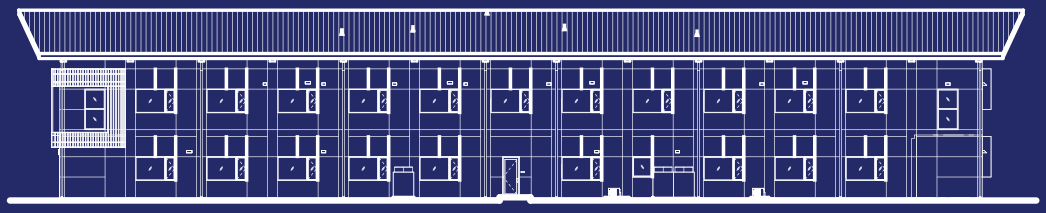
Sherrod, David R., John M. Sinton, Sarah E. Watkins, and Kelly M. Brunt
2021 *Geologic Map of the State of Hawai'i – Island of Maui*. U.S. Geological Survey Publications Warehouse. Available at: https://pubs.usgs.gov/sim/3143/sim3143_sheet4.pdf. Accessed December 2023.

Siler, Julia Flynn
2014 The Historic Hawaii Ranch of the Baldwin Family. *The Wall Street Journal*. Available at: https://www.wsj.com/articles/SB10001424052702304640104579489551277657772.

Uechi, Colleen
2018 A new guided tour in Makawao town is taking a stroll through history. *Maui News.* Available at: https://www.mauinews.com/news/local-news/2018/10/a-new-guided-tour-in-makawao-town-is-taking-a-stroll-through-history/. Accessed December 2023.

U.S. Geological Survey
1950 Historic aerial photograph. University of Hawaiʻi at Mānoa Library. Available at: https://magis.manoa.hawaii.edu/remotesensing/GeoserverFiles/ShpFiles/Maui/036/jpegs/3582. Accessed October 2023.

1976 Historic aerial photograph. University of Hawaiʻi at Mānoa Library. Available at: https://magis.manoa.hawaii.edu/remotesensing/GeoserverFiles/ShpFiles/Maui/034/jpegs/3355. Accessed October 2023.



APPENDIX D
Phase 1 Environmental Site Assessment

Samuel E. Kalama Intermediate School
120 Makani Road
Makawao, Maui, Hawaii
Tax Map Key: (2) 2-4-032: Parcel 109 (Portion)

October 2023
Prepared by: Element Environmental LLC

Report

Phase I Environmental Site Assessment

Samuel E. Kalama Intermediate School
120 Makani Road
Makawao, Maui, Hawaii
Tax Map Key: (2) 2-4-032: Parcel 109 (Portion)

October 13, 2023

PREPARED FOR:
Bowers + Kubota
94-408 Akoki Street, Suite 201-A
Waipahu, HI 96797

PREPARED BY:
Element Environmental, LLC
98-030 Hekaha Street, Unit 9
Aiea, Hawaii 96701

element environmental llc
environmental : engineering : water resources

element environmental llc
environmental · engineering · water resources

October 13, 2023

Mr. Jared Chang, AICP
Bowers + Kubota
94-408 Akoki Street
Suite 201-A
Waipahu, HI 96797

Subject: Phase I Environmental Site Assessment
Samuel E. Kalama Intermediate School
120 Makani Road
Makawao, Maui, Hawaii
Tax Map Key: (2) 2-4-032: Parcel 109 (Portion)

Dear Mr. Jared Chang,

Element Environmental, LLC (E2) has performed a Phase I Environmental Site Assessment (ESA) in support of the construction of a new modular administration building on a 0.49-acre portion of the Samuel E. Kalama Intermediate School campus located in Makawao on the island of Maui. The campus occupies approximately 10.4 acres of land designed as Tax Map Key: (2) 2-4-032: Parcel 109.

The accompanying report summarizes E2's findings and relates E2's opinions with respect to the property and potential sources of contamination at the property. E2's findings and opinions are based on information that was obtained on given dates through a records review, visual site inspection, interviews, and related activities. It is possible that other information exists or subsequently has become known, just as it is possible for conditions observed to have changed after the initial observations. For these and associated reasons, E2 and many of its peers routinely advise clients for ESA services that it would be a mistake to place unmerited faith in findings and opinions conveyed via ESA reports. E2 cannot under any circumstances warrant or guarantee that not finding indicators of hazardous substances or petroleum products means that hazardous substances or petroleum products and/or associated contamination do not exist on the property.

It has been a pleasure conducting this assessment for you. If you have questions regarding this report, please contact me on my mobile phone at (808) 551-3740.

Respectfully submitted,

Element Environmental, LLC

Angela Peltier
Angela Peltier
Senior Geologist

98-030 Hekaha Street Unit 9 Aiea Hawaii 96701 **tel:** (808) 488-1200 **fax:** (808) 488-1300
www.e2hi.com

ELEMENT ENVIRONMENTAL, LLC

ENVIRONMENTAL CERTIFICATION

E2 Project No.:	230044
Report:	Phase I Environmental Site Assessment, ASTM International E1527-21
Inspection Date:	September 21, 2023
Report Date:	October 13, 2023
Site:	Kalama Intermediate School, 120 Makani Road, Makawao, Maui, Hawaii Tax Map Key: (2) 2-4-032: Parcel 109 (Portion)
Client:	Bowers + Kubota

ENVIRONMENTAL PROFESSIONAL CERTIFICATION

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in §312.10 of 40 Code of Federal Regulations (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.

John Ellis

John Ellis, Environmental Technician Date: October 13, 2023

Angela Peltier

Angela Peltier, Senior Geologist Date: October 13, 2023

Arlene Campbell

Arlene H. Campbell, L.G., Senior Geologist Date: October 13, 2023

This page intentionally left blank.

Table of Contents

Table of Contents (Continued)

Tables

Table of Contents (Continued)

This page intentionally left blank.

List of Acronyms and Abbreviations

AAI	All Appropriate Inquiries
ACM	asbestos-containing material
AST	aboveground storage tank
ASTM	ASTM International
AUL	activity and use limitation
B+K	Bowers + Kubota Consulting
bgs	below ground surface
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CERCLIS	Comprehensive Environmental Response Compensation and Liability Information System
CESQG	conditionally exempt small quantity generator
CFR	Code of Federal Regulations
COPC	contaminants of potential concern
CORRACTS	Corrective Action Sites under RCRA
CREC	controlled recognized environmental condition
CWB	Clean Water Branch
DAGS	Department of Accounting and General Services
EDR	Environmental Data Resources, Inc.
E2	Element Environmental, LLC
EPA	United States Environmental Protection Agency
ERNS	Emergency Response Notification System
ESA	Environmental Site Assessment
ft	feet
FUDS	Formerly Used Defense Sites
HDOE	State of Hawaii Department of Education
HDOH	State of Hawaii Department of Health
HEER	Hazard Evaluation and Emergency Response
HREC	historical recognized environmental condition
IEC	institutional/engineering control
IRHB	Indoor & Radiological Health Branch
KIS	Samuel E. Kalama Intermediate School
LBP	lead-based paint
LLP	landowner liability protections
LQG	large quantity generator
LUO	Land Use Ordinance
LUST	leaking underground storage tank

List of Acronyms and Abbreviations (Continued)

MECO	Maui Electric Company, Ltd.
mg/L	milligrams per liter
ML&PC	Maui Land & Pineapple Company, Inc.
msl	mean sea level
N/A	Not Applicable
NFA	No Further Action
NPL	National Priorities List
NRCS	Natural Resources Conservation Service
OSDS	on-site sewage disposal system
PCB	polychlorinated biphenyl
PEC	potential environmental concern
RCRA	Resource Conservation and Recovery Act
REC	recognized environmental condition
SDWB	Safe Drinking Water Branch
SEMS	Superfund Enterprise Management System
SHWB	Solid and Hazardous Waste Branch
SHWS	solid and hazardous waste site
SQG	small quantity generator
TMK	Tax Map Key
TSD	Treatment, Storage, and Disposal
U.S.	United States of America
U.S.C.	United States Code
UIC	Underground Injection Control
USDA	United States Department of Agriculture
USGS	United States Geological Survey
UST	underground storage tank
VEC	vapor encroachment condition
VES	vapor encroachment screening
VESQG	very small quantity generator
VRP	Voluntary Response Program
VSI	visual site inspection
WWB	Wastewater Branch

Executive Summary

Bowers + Kubota retained Element Environmental, LLC (E2) to conduct a Phase I Environmental Site Assessment (ESA) in general conformance with ASTM International (ASTM) Practice E1527-21, *Standard Practice for Environmental Site Assessments,* in support of the construction of a new modular administration building located on a 0.49-acre portion of the 10.4-acre Samuel E. Kalama Intermediate School (KIS) campus in the Makawao district of Maui, Hawaii and designated as Tax Map Key: (2) 2-4-032: Parcel 109 (portion); hereinafter "*the site, the subject property and/or the property*." Any exceptions, additions to, or deletions from the ASTM E1527-21 or AAI practice, details of the work performed, sources of information, and findings are presented in the report. The State of Hawaii Department of Education owns the property.

E2 conducted a visual site inspection (VSI) of the subject property on September 21, 2023. At the time of the VSI, the subject property consisted of an open grassy area with trees and picnic tables. The proposed construction site is located on the north side of the KIS campus and is surrounded by concrete walkways, adjacent school buildings (P-6 and P-7 to the northeast, Building O to the southeast, and P-8/9 to the southwest), an access road, and a parking lot.

The purpose of a Phase I ESA is to identify recognized environmental conditions (RECs). ASTM guidance defines a REC as (2) the presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment. No RECs were identified for the subject property.

A controlled REC (CREC) is defined as a REC affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (e.g., property use restrictions, activity and use limitations, institutional/engineering controls). No CRECs were identified for the subject property.

A historical REC (HREC) is defined as a previous release of hazardous substances or petroleum products affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities and meets unrestricted use criteria established by the applicable regulatory authority or authorities without subjecting the subject property to any controls (e.g., AULs or other property use limitations). No HRECs were identified for the subject property.

The page intentionally left blank.

Section 1 Introduction

1.1 Overview

Bowers + Kubota Consulting (B+K) retained Element Environmental, LLC (E2) to conduct a Phase I Environmental Site Assessment (ESA) for a portion of the Samuel E. Kalama Intermediate School (KIS) campus in support of the planned construction of a 2-story, 15,000-square-foot administration building. The KIS campus occupies approximately 10.4 acres of land designed as Tax Map Key (TMK): (2) 2-4-032: Parcel 109 (Portion) (the property or the site), located in the Makawao district of Maui, Hawaii, hereinafter referred to as "*the site, the subject property, and/or the property*." The property is owned by the State of Hawaii Department of Education (HDOE) (County of Maui 2023a).

This Phase I ESA was conducted in general conformance with ASTM International (ASTM) Practice E1527-21, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. The purpose of the Phase I ESA was to identify environmental issues (if any) as part of due diligence prior to the construction of a new administration building.

1.2 Purpose

The purpose of the ASTM Practice is to define good commercial and customary practices in the United States of America (U.S.) for conducting an ESA of a parcel of commercial real estate with respect to the range of contaminants within the scope of the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (42 U.S. Code [U.S.C.] §9601) and petroleum products. As such, this practice is intended to permit a user to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on CERCLA liability (hereinafter, the "landowner liability protections," or "LLPs"): that is, the practice that constitutes Appropriate Inquiries (AAI) into the previous ownership and uses of the property consistent with good commercial and customary practice, as defined in 42 U.S.C. §9601(35)(B).

For the purposes of this practice:

- The definition of a release includes contamination in the soil vapor phase and in soil or groundwater of any hazardous substance or petroleum product.
- "Migrate" and "migration" refer to the movement of hazardous substances or petroleum products in any form, including solid and liquid at the surface or subsurface and vapor in the subsurface.
- Vapor migration/intrusion (excluding impacts to the indoor air from releases of hazardous substances into the environment) *does not fall under the category of an Indoor Air Quality concern*. It is not included in the ASTM E1527-21 scope of work.

ASTM guidance defines a recognized environmental condition (REC) as (1) the presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or (3) the presence of hazardous substances or

petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment (ASTM 2021).

A controlled REC (CREC) is defined as a REC affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (e.g., property use restrictions, activity and use limitations [AULs], institutional/engineering controls [IECs]) (ASTM 2021).

A historical REC (HREC) is defined as a previous release of hazardous substances or petroleum products affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities and meeting unrestricted use criteria established by the applicable regulatory authority or authorities without subjecting the subject property to any controls (e.g., AULs or other property use limitations) (ASTM 2021).

RECs do not include *de minimis* conditions that relate to a release that generally does not present a threat to human health and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies (ASTM 2021).

Potential environmental concerns (PECs), a non-ASTM scope definition, are not considered RECs as insufficient data or evidence is present to make a definitive determination that the release is impacting the subject property.

1.3 Detailed Scope of Services

This Phase I ESA was performed under the conditions of, and in general accordance with the proposal dated May 16, 2023, the ASTM *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (ASTM Designation E1527-21) (E2 2023). Adherence to the ASTM standard is intended to limit property owners' liability from inherited environmental contamination.

The Phase I ESA included the following tasks:

- Review of regulatory records. E2 reviewed standard environmental record sources, including the U.S. Environmental Protection Agency (EPA) Superfund Enterprise Management System (SEMS) database (formerly Comprehensive Environmental Response Compensation and Liability Information System [CERCLIS]), EPA's Resource Conservation and Recovery Act (RCRA) database, U.S. IEC database, EPA's Emergency Response Notification System (ERNS) database, State of Hawaii Department of Health (HDOH) Hazard Evaluation and Emergency Response (HEER) Office sites list, HDOH Underground Storage Tank (UST) list, HDOH Leaking UST (LUST) list, HDOH list of landfills and other solid and hazardous waste sites (SHWS), HDOH Voluntary Response Program (VRP) sites list, and the HDOH Brownfield sites list.
- Review of site history. E2 reviewed reasonably ascertainable standard historical sources, including historical maps; aerial photographs; building permits, zoning records, and property tax records available online; various printed publications as well as publications posted on the internet; and documents and/or records provided by the owner/user and/or their representatives.

- Review of site geology and hydrogeology. E2 reviewed reasonably ascertainable published information on surface and subsurface conditions at the site and surrounding area. E2 used this information to assess topography, drainage, surface water bodies, anticipated subsurface geology, and groundwater occurrence and usage in the area.
- Visual Site Inspection (VSI). E2 performed a VSI of the property to note visual signs of contamination and conducted a limited assessment of portions of the neighboring properties visible from the subject property boundaries. During the VSI, E2 specifically looked for hazardous substances; petroleum products; aboveground storage tank (AST) and USTs; odors; pools of liquid; drums; electrical and hydraulic equipment; means for heating and cooling structures; stains or corrosion; drains and sumps; pits, ponds, or lagoons; stained soil or pavement; stressed vegetation; solid waste; wastewater; wells; and septic systems. The VSI focused on commercial/industrial areas and practices at the property (i.e., mechanical/electrical rooms).
- Interviews. E2 interviewed available individuals familiar with the site conditions and/or site use history.
- Data evaluation and report preparation. E2 evaluated the information collected and prepared this report that documents the assessment and presents the findings, opinions, and conclusions.

1.4 Significant Assumptions

In preparing this report, E2 assumes the following:

- Certain verbal information and representations provided by the Phase I ESA owners/users; landowners, tenants, occupants, and/or their representatives; government employees; and others are complete and accurate to the best of their knowledge.
- Government agency responses to public requests for information are complete and accurate.
- Reports provided by the private database search company (detailing a computer search of government databases) are complete and accurate.
- Written information and documents provided by the Phase I ESA owners/users, tenants, occupants, and/or their representatives are complete and accurate to the best of their knowledge.

Except as discussed, E2 has relied on that information and did not attempt to verify its accuracy or completeness independently but did not detect any inconsistency or omission of a nature that might call into question the validity of the data. To the extent that the conclusions in this report are based in whole or in part on such information, they are contingent on its validity. E2 assumes no responsibility for any consequence arising from any information or condition concealed, withheld, misrepresented, or otherwise not fully disclosed or available to E2.

1.5 Limitations and Exceptions

Phase I ESAs, by their very nature, are limited. E2 has endeavored to meet what it believes is the applicable standard of care and, in so doing, is obliged to advise its client, B+K, of the Phase I ESA limitations. This Phase I ESA did not assess environmental issues or conditions at the property that are outside the scope of ASTM Practice E1527-21, including, but not limited to, asbestos-containing material (ACM), biological

agents, cultural and historical resources, ecological resources, endangered species, health and safety, indoor air quality unrelated to releases of hazardous substances or petroleum products into the environment, industrial hygiene, lead-based paint (LBP), lead in drinking water, mold, radon, regulatory compliance, and wetlands, nor did it include any sampling or testing for biological agents and mold, radon, methane, ACM, LBP, or other environmental contaminants. The E2 investigation was limited to procedures described in the Phase I ESA Standard Practice (ASTM 2021).

The conclusions presented in this report are professional opinions based solely upon visual observations of the site and vicinity and E2's interpretation of the available historical and regulatory information and documents reviewed. They are intended exclusively for the purpose outlined herein and apply only to the site location and project indicated.

The findings and opinions are based on information E2 obtained on given dates through a records review, site reconnaissance, interviews, and related activities. It is possible that other information exists or subsequently has become known, just as it is possible for conditions E2 observed to have changed after the initial observations. For these and associated reasons, E2 and many of its peers routinely advise clients for ESA services that it would be a mistake to place unmerited faith in findings and opinions conveyed via ESA reports. E2 cannot under any circumstances warrant or guarantee that not finding indicators of hazardous substances or petroleum products means that hazardous substances or petroleum products and/or associated contamination do not exist on the site.

1.6 Special Terms and Conditions

E2's services are performed within limits prescribed by the client, with the usual thoroughness and competence of the consulting profession in accordance with the standard for professional services at the time those services are rendered. No warranty or representation, either expressed or implied, is included or intended in the proposals, contracts, or reports.

Findings and opinions presented herein apply to site conditions existing at the time of E2's investigation and those reasonably foreseeable; they cannot necessarily apply to site changes of which E2 is not aware and has not had the opportunity to evaluate.

1.7 Data Gaps

Based on the information obtained during this ESA, it is E2's professional opinion that a historical data gap, as defined in the ASTM guidelines, has occurred in attempting to document the history of the subject property back to the earlier part of 1940 or the first developed usage of the property in five-year increments, as follows:

- No historical information regarding the subject property was found from 1886 to 1899, 1901 to 1919, 1936 to 1949, and 1968 to 1975.
- As of the date of the report, the HDOH Clean Water Branch (CWB) and HDOH Indoor & Radiological Health Branch (IRHB) have not responded to the requests for records.

- As of the date of the report, KIS staff have not responded to our request for an interview with the Principal and/or maintenance personnel.
- No information on per- and polyfluoroalkyl substances was available.

Based on the information obtained, the lack of documentation is not deemed critical and did not affect the ability to identify potential RECs associated with the subject property.

1.8 User Reliance

This report is intended for the use of B+K and their assignees. The scope of services performed in the execution of this investigation may not be appropriate to satisfy the needs of other users, and any use or reuse of this document or the findings, conclusions, or recommendations presented herein is at the sole risk of the said user.

This page intentionally left blank.

Section 2 Site Description

2.1 Location and Legal Description

General site and environmental setting information is summarized in Table 2-1. Figures 1 and 2, included in Appendix A, show a location map and configuration of the area relative to adjacent properties.

Table 2-1: Subject Property General Information

TMK:	(2) 2-4-032: Parcel 109 (Portion)
Subject Property Address:	Samual E. Kalama Intermediate School, 120 Makani Road, Makawao, Maui, Hawaii
Property Owner:	State of Hawaii Department of Education (HDOE)
Topographic Map:	Topographic map coverage of the site is included on the U.S. Geological Survey (USGS) 7.5-minute Haiku and Paia quadrangle maps, as shown in Figure 1. The property is located at 20° 51' 3.20" north latitude and 156° 19' 13.32'' west longitude. The subject property is sloping to the north-northwest, with an elevation of approximately 1,542 feet (ft) above mean sea level (msl).
Subject Property General Location:	The subject property is located in the rural northwest slope of Haleakala on East Maui, locally known as "Upcountry."
Subject Property Area:	The subject property consists of the undeveloped area on the northeast side of Building O, on the east side of the KIS campus (see Figure 2). The site is bound to the northeast by a concrete walkway, a parking lot, and Buildings P-6 and P-7; to the northwest by a concrete walkway, a parking lot, a circular driveway and, and Building P-8/9; and to the south and southwest by a concrete walkway and Buildings O and G, respectively. The subject property is an open grassy area with several large trees. The KIS campus is located in the approximate center of Makawao and is surrounded by Eddie Tam Park to the north and east, residential areas to the south, and a lot used as a leach field and play area for the school.
Subject Property Existing Use:	The subject property is an undeveloped, vegetated, open area of the KIS campus.
Geologic Setting:	The property is located on the mid-slopes of the westward-facing slope of Mount Haleakala Volcano. The study area is located on the island of Maui, on the northwest flank of Haleakala.
Nearest Surface Water Body:	Surface water and groundwater resources in the general area are relatively minor due to current and historical farming withdrawals. The closest water body to the subject property is the non-perennial Paholoi Stream that collects water from the Eddie Tam Park along the northern slope of Mount Haleakala to a drainage pond in Paia approximately 3.6 miles away.
Soil and Geologic Conditions:	According to the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS), the soils at KIS consist mainly of Haliimaile silty clay loam, 3 to 7 percent slopes (HgB) and Haliimaile silty clay, 7 to 15 percent slopes (HhC). These soil series are found on the uplands on the island of Maui, mainly within elevations between 500 and 2,000 feet above msl. The Haliimaile series soils have a surface layer of dark reddish-brown silty clay with a substratum of dark reddish-brown and very dark grayish-brown clay. Haliimaile soils are characterized by medium runoff and a moderate erosion hazard (USDA NRCS 2023).

Hydrogeology	According to data presented in Aquifer Identification and Classification for the Island of Maui: Groundwater Protection Strategy for Hawaii (Mink and Lau 1990), groundwater in the study area occurs within the Makawao Aquifer System of the Central Maui Aquifer Sector. The Makawao System consists of shallow, perched unconfined aquifers of limited extent above a deep basal aquifer, which underlies the entire region. The perched aquifers are classified as potential for potable use, are fresh (less than 250 milligrams per liter [mg/L] chloride), are replaceable, and have a moderate vulnerability to contamination. The basal aquifer is an unconfined flank aquifer that has potential use as drinking water, is irreplaceable, and has a· moderate vulnerability to contamination.
Depth to Groundwater and Location Relative to the Underground Injection Control (UIC) Line:	Based on the elevation of the study area, basal groundwater is expected to occur at a depth of more than 500 feet below ground surface (bgs). The property is located approximately 6.5 miles mauka (upgradient) of the UIC line, indicating that groundwater below the site is considered to be a potential source of drinking water. This category of water is protected by State and Federal regulations from impacts that may affect water quality. There is no active use of the groundwater resource at this time, and none of the activities on the site are likely to affect water quality in this aquifer.
Inferred Direction of Shallow Groundwater Flow:	Shallow groundwater flow follows local topography and is generally in a northerly direction from the KIS.
Flood Zone Designation:	As identified by the Federal Emergency Management Agency Federal Insurance Rate Map 1500030440E, the site is located within "Zone X – Area of Minimal Flood Hazard" (FEMA 2009). The site is not located in an area affected by tsunamis, high waves, or other high-water events from ocean conditions.
State Land Use Ordinance (LUO):	The State LUO for the site is *Urban* (State of Hawaii 2023).
County of Maui Zoning LUO:	The County of Maui zoning LUO designation for the KIS, which includes the subject property, is P-1 Public/Quasi-Public (County of Maui 2023b).

2.2 Current Uses of the Adjacent Properties

Table 2-2 lists the adjacent properties' parcel numbers and owner/occupant activities. Figure 2, included in Appendix A, shows the locations of adjacent properties.

Table 2-2: Adjacent Properties

TMK: (2)	Occupant	Owner/Occupant Activities
Parcel adjacent to the north, east, south, and west		
2-4-032:109	KIS 120 Makani Road	KIS Campus north entrance and parking lot, buildings P-6, P-7, P-8/9, and Building O.

Section 3 User Provided Information

A user questionnaire was completed by Ms. Tami Mane Haili, Principal at KIS, the user, as of the date of this report. A copy of the questionnaire is provided in Appendix B, and Ms. Haili's responses are provided in the following sections.

3.1 Title Records

No title records were provided for the subject property.

3.2 Environmental Liens or Activity and Use Limitations

The user has no knowledge of environmental liens or AULs for the subject property.

3.3 Specialized Knowledge

The user has no specialized knowledge of the subject or adjoining property.

3.4 Valuation Reduction for Environmental Issues

The user has no knowledge of whether a valuation reduction evaluation for environmental issues has been conducted for the property.

3.5 Commonly Known or Reasonably Ascertainable Information

The user has no known or reasonably ascertainable information about the property.

3.6 Owner, Property Manager, and Occupant Information

The property occupant is the Samual E. Kalama Intermediate School.

3.7 Reason for Performing the Phase I ESA

The purpose of the Phase I ESA was to identify environmental issues (if any) as part of due diligence prior to the construction of a new administrative building.

This page intentionally left blank.

Section 4 Records Review

4.1 Standard Environmental Record Sources

4.1.1 Environmental Data Resources, Inc. Report

Several published sources of environmental records were reviewed to identify the presence of adverse environmental conditions at the subject property. This section lists the records that were searched and the results of each search.

ASTM E1527-21 specifies search distances for specific environmental record sources. Table 4-1 identifies the record sources searched for incidents or sites within the listed search distances of the subject property:

Table 4-1: Environmental Record Sources Searched

Standard Environmental Record Sources	Search Distance (miles)	Number of Sites Identified
Federal National Priorities List (NPL) (Superfund) site list	1.0	0
Federal Delisted NPL site list	0.5	0
Federal SEMS list (formerly CERCLIS)	0.5	0
Federal SEMS-Archive (formerly CERCLIS No Further Remedial Action Planned) site list	0.5	0
Federal RCRA Corrective Action Sites under RCRA (CORRACTS) facilities list (facilities underground Corrective Action)	1.0	0
Federal RCRA Non-CORRACTS Treatment, Storage, and Disposal (TSD) facilities list	0.5	0
Federal RCRA generators list (conditionally exempt small quantity generator [CESQG], small quantity generator [SQG], very small quantity generators [VESQGs], and large quantity generator[LQG])	Subject and Adjacent properties	0
Federal IEC registries	Subject property only	0
Federal ERNS list	Subject property only	0
State list of SHWS identified for investigation or remediation (NPL or CERCLIS equivalents)	1.0	4
State landfill and/or solid waste disposal site lists	0.5	0
State LUST list	0.5	1
State-registered UST list	Subject and Adjacent properties	0
State IEC registries	Subject and Adjacent properties	0
State VRP sites	0.5	0
State Brownfield sites	0.5	0
Additional Sites Searched but not required by ASTM		
Formerly Used Defense Sites (FUDS) Database	1	1
Environmental Data Resources, Inc. (EDR) Hist Auto List	0.125	0
EDR Hist Cleaner List	0.125	0

E2 used an online regulatory database search service provided by EDR to review the above-listed Federal and State government databases within prescribed search distances. A copy of the EDR report is included in Appendix C.

In reviewing the environmental databases, it should be noted that the specific regulatory agencies do not instantaneously update such databases. Updates may be as infrequent as annually, depending on the database and the agency. The dates of the most recent updates for the searched environmental databases are listed in the EDR report in Appendix C.

E2 reviewed the sites identified by EDR within the required search radii. None of the identified sites are listed within a ⅛-mile distance from the site. Sites with environmental concerns located beyond a ⅛-mile that may impact the property are listed in Table 4-2 (EDR 2023a). Refer to the EDR report (Appendix C) for a full listing of the sites within the required search radii.

Table 4-2: Sites with Environmental Concerns Beyond 1/8-mile of Subject Property

Facility/Address	Database/ List	Location Relative to the Subject Property	Environmental Concerns/Information
Minit Stop Makawao 1100 Makawao Avenue	LUST	¼ to ½ mile east northeast (higher elevation / upgradient)	Facility ID: 9-502183 Release ID: 000035 No Further Action (NFA) as of 11/29/1999 Three active 10,000-gallon Gasohol USTs installed in 1996 are still present on the site.
Makawao Elementary School 3542 Baldwin Avenue	FUDS	½ to 1-mile northeast (higher elevation / upgradient)	FUDS Makawao Station Hospital (H09HI0206) Hazard Priority: Low Assessment Ongoing The Army converted three existing school buildings into a mess hall, morgue, and nurses' quarters. A large red cross was placed on the roof of one building. The site was also known as the 22nd Hospital, 8th Station Hospital, and Makawao School. The site was returned to the Territory of Hawaii shortly before the Japanese surrender. The site is still a school. One building containing the morgue was demolished. A site visit on May 1, 1992, did not reveal any environmental hazards. No Installation Restoration Program or Military Munitions Response Program projects have been reported for this site.

No unmapped sites were identified during this records search.

4.2 Other Information Sources

The following sections describe information obtained from other information sources.

4.2.1 Government Agencies File Review

E2 submitted requests to access public information for the subject and adjacent properties, as shown in Table 4-3.

Table 4-3: Government Agencies Information Requests

Agency	Contact	Notes:
HDOH CWB	Not Applicable (N/A)	No response to the records request was received by the submittal date of this report.
HDOH HEER Office	Ms. Rosa Iu, Public Records Contact	No records were found for the subject or adjacent properties.
HDOH Solid and Hazardous Waste Branch (SHWB)	Mr. Glenn Haae, Engineering Section	UST and Hazardous Waste Section No records were identified for the subject or adjoining properties. Solid Waste and Hazardous Waste Sections • TMK: (2) 2-4-006: 005 Permit Application No. CC-00068-01. According to the SHWB, the file has been lost for this facility, but they noted that it is an inactive county convenience center that accepted various wastes for transport to the landfill or local recyclers. • County of Maui, Makawao Recycling Center and Aloha Glass Recycling, Inc., TMK: (2) 2-4-032:098, Off Hale Kipa Road and behind Kalama School. o Certified Redemption Center AGR-122714-303 date issued 12/27/2014 through 07/29/2019. o Permit No. RY-0089-11 dated 12/15/2011 with an expiration date of 12/14/2016; Redemption center accepts deposit beverage container aluminum and plastic, bi-metal, steel, glass, and non-ferrous scrap metal; and County recycling bins accept glass, plastic and metal (steel, bi-metal and aluminum) food and beverage containers, and cardboard and newspaper from public. o Renewal Permit No. RY-0061-16 issued 02/15/2018 and expires 12/14/2021. The facility has been in use as a recycling center for over 10 years.
HDOH IRHB	N/A	No response to the records request was received by the submittal date of this report.
HDOH Safe Drinking Water Branch (SDWB)	Ms. Iris Van Der Zander, Geologist	No records were found for the subject or adjacent property.
HDOH Wastewater Branch (WWB)	Ms. Lori Morikami, Planner	No individual wastewater systems, including cesspools or septic tanks, were identified on the subject property. TMK: (2) 2-4-032:109, 120 Makani Road, hydraulically downgradient (based on figures provided by the WWB the tank is located on 140 Makani Road, TMK: (2) 2-4-032:110): Septic Tank, Permit 13602, Approved to use on 09/16/2019 TMK: (2) 2-4-006:005, 931 Makawao Avenue, hydraulically crossgradient: Septic Tank, Permit 7606, approved to use on 06/21/2007 Septic Tank, Permit 7605, approved to use on 06/21/2007 Septic Tank, Permit 7604, approved to use on 06/21/2007 Septic Tank, Permit 7603, approved to use on 06/21/2007

4.3 Vapor Encroachment Screening

The EDR Radius Map initially searched all standard government record databases, and EDR historical records within the ASTM E1527-21 recommended radii. E2 reviewed those sites related to former dry cleaners, gas stations, and manufactured gas plants that met the vapor encroachment screening (VES)

criteria provided by the ASTM E2600-10 *Standard Guide for Vapor Encroachment Screening of Property Involved in Real Estate Transactions* (ASTM 2010).

E2 reviewed the regulatory database search of those sites for recorded releases of COPCs within the ⅓-mile and 1/10-mile approximate minimum distances defined in ASTM E2600-10 for vapor encroachment from contaminants of potential concern (COPC) contaminated sites. This measurement is based upon the distance from the known or suspected contaminated property to the property boundary. E2's review of EDR's database search for potential vapor encroachment conditions (VECs) considers the following factors:

- The land use of the property;
- Type of COPC(s);
- The location of known or suspected contaminated property is within the area of concern;
- Characteristics of the soil;
- Depth to groundwater;
- Vapor conduits that may result in significant preferential pathways; and
- Cleanup status of contaminated property.

Potential VECs evaluated included all RECs, including HRECs and CRECs, with identified releases of petroleum products or other potentially volatile contaminants of concern.

As is provided by ASTM E2600-10, E2 also considered the predicted hydrogeological gradient around the property when determining the potential for VECs to impact the site.

No sites were identified within the recommended search radius that may contribute to VEC. The report is included in Appendix D.

4.4 Historical Use Information

4.4.1 Standard Historical Sources

Historical use information for the subject and adjacent properties was obtained by reviewing the historical sources listed in Table 4-4. A discussion of RECs and/or environmental concerns identified as a result of the review of standard historical sources is included in Section 7 of this report.

Table 4-4: Historical Sources Reviewed

Source Type	Year Reviewed	Source	Environmental Concerns/Notes:
Environmental Lien and AUL Searches	1980-Present	(EDR 2023b)	No deed or environmental lien was identified from 1980 to present.
Property Tax Map Reports	No Coverage	(EDR 2023c)	No coverage for the subject property in the EDR report.
	1976-2023	(County of Maui 2023c)	TMK Map Zone 2, Section 4, Plat 32. A water pipeline easement "B" runs through the central portion of the KIS parcel, and water pipeline easement "A" runs adjacent to the southern boundary of the KIS parcel with one perpendicular pipe on the eastern side of the KIS parcel.
Aerial Photographs	1950, 1965, 1976, 1985, 2001, 2004, 2005, 2011, 2012, 2013, 2014, 2016, 2018, 2019, 2022, and 2023.	(EDR 2023d) (Google Earth 2023)	1950-1965: The subject parcel and north and west portions of the adjacent parcel are cultivated.
			1976: The subject and adjacent parcels are no longer cultivated. No features were observed on the subject parcel.
			1985: The photo is of poor quality, and the subject property's condition could not be evaluated.
			2001-2016: Shows the subject property with buildings P-6, P-7, P-8/9, Building O, Building G, and the Eddie Tam Parking Lot.
			2018-2023: No changes observed to subject property. It appears that a new roof was installed on buildings P-6, P-7, and P-8/9, adjacent to the subject property.
Fire Insurance Maps	N/A	(EDR 2023e)	No coverage for the subject and adjacent properties in the EDR report.
USGS Topo Maps (Haiku, Paia, Kilohana, Puu O Kali, and Makawao Quadrangles)	1922, 1954/1957, 1961, 1983, 1991/1992, 2013, and 2017	(EDR 2023f)	1922: No significant features observed on the subject property. The road is adjacent to the south side of the adjacent property. 1954/1957-1961: No significant changes. The road to the south of the adjacent parcel is now named Makani Road. 1983: The subject parcel is within the bounds of Makawao Park. 1991/1992: An automobile turnaround is observed on the adjacent property to the west. 2013-2017: No significant features shown.
Street Directories	1992, 1995, 2000, 2005, 2010, 2014, and 2017 (Makani Rd and Makawao Ave)	(EDR 2023g)	The complete list of street directories is included in Appendix C. The following information was found for the subject and adjoining properties: 1992: Renee Adams 1995: Renee Adams 1995-2020: KIS 2020: Calvary Chapel Upcountry, Deanna Dibiase, and Kaberi K. Mozumder

Source Type	Year Reviewed	Source	Environmental Concerns/Notes:
Building Permit Records	No Coverage	(EDR 2023h)	No coverage.
	1967, 1984, 1985, 1986, 1989, 1991, 1992, 1994, 1995, 1997, 1998, 2001, 2002, 2007, 2008	(HDOE 2023)	1997, 2000, and 2008 As-Built Drawings show the subject property overlying a "Sewage Absorption Field." Drawing files for school upgrades were identified for the adjacent property from 1985 through 2007.
Historical Maps	1885	(Donn, John M. 1885)	The area of the subject and adjacent properties is outside the lands labeled "Hawaiian Commercial and Sugar Company" but located within a yellow highlighted area with no label.
	1900-1937	(HDOH HEER Office 2015)	The area of the subject property is not shown within sugarcane lands from 1900 to 1937 and is labeled conservation land.
	1920, 1937	(State of Hawaii 2021)	The subject and adjacent properties are shown as being located outside the "Approximate Area of Pineapple Lands."
	1996	(County of Maui 1996)	The KIS campus is located within land designated as Public/Quasi-Public.
	Undated Dole Map	(CCCarto Undated)	The KIS campus is not located within land designed as "Maui Land & Pine."

4.5 Previous Environmental Reports

A brief summary of environmental concerns or notes from previous environmental reports is included in Table 4-5.

Table 4-5: Review of Previous Environmental Reports

Source	Environmental Concerns/Notes:
Foundation Investigation and Percolation Testing Proposed 8-Classroom Building, Kalama Intermediate School DAGS Job No. 15-16-5663, TMK: 2-2-4-32:110, Makawao, Maui, Hawaii (Department of Accounting and General Services [DAGS] 1993)	• Three exploratory borings ranging in depths from 31.4 to 35 feet were drilled at the location of the proposed 80 classroom building to investigate the subsurface conditions. In addition, five shallow borings to 5 feet were drilled in the area of the proposed leaching fields to explore subsurface conditions and conduct percolation tests. • Subsurface conditions encountered in the borings generally consisted of brown clayey silt topsoil on the surface underlain by medium stiff to very stiff reddish-brown to brown clayey silts. Highly to moderately weathered basalt was encountered in two borings at a depth of approximately 30 feet bgs. • An underground sewage treatment plant with a wet well/sewage lift station and two leaching fields will be constructed over the northern portion of the lot (now 140 Makani Rd).

Source	Environmental Concerns/Notes:
Final Environmental Assessment, Eddie Tam Memorial Park, Upgrade & Expansion (Hiyakumoto + Higuchi Architects, Inc. 1995)	• Eddie Tam Memorial Park is located at 931 Makawao Avenue, TMKs: (2) 2-4-006: 005 and (2) 2-4-032:098 to the northeast of the subject property. • The area was cultivated in pineapple fields (Maui Land & Pineapple Company, Inc. [ML&PC]) from the 1940s through the late 1960s. The report also states that pineapple cultivation possibly existed in the area for over fifty years. • The County has owned the Eddie Tam Memorial Park since 1955 and the expansion site since 1993. The expansion site was cultivated in pineapple fields in the 1940's through the late '60s. • The park is part of a 360-acre drainage basin that extends from about 9,600 feet from its lower end along Hoomaha Road to its upper end at a point along Olinda Road. • The drainage system within KIS collects runoff produced within the school site and from the upstream areas and discharges runoff into the park through a 42-inch drain line. From this point, runoff flows through a meandering gully on the park site and enters a 30-inch culvert at Hoomahu Road. The 30-inch culvert passes runoff under the road and into an earthen channel within Lot 55 of the Pau Hana Estates Subdivision.
Revised Final Environmental Impact Statement Volume I, Upcountry Town Center, Pukalani, Maui, Hawaii (Group 70 International, Inc., 2003)	• The ML&PC proposed development of "Upcountry Town Center" was to be located at the intersection of Pukalani Bypass Highway, Haleakala Highway, and Makawao Avenue-Pukalani, Maui. • In 2001, ML&PC investigated potential hazardous material concerns at the Upcountry Town Center location associated with former use for camp housing and pineapple cultivation. Pesticide (4,4-dichlorodiphenyldichloroethylene and 4,4-dichlorodiphenyltrichloroethane) and arsenic contamination were identified in soil in some limited areas between the Corn Mill Camp and Haleakala Highway (Pukalani Bypass). These pesticides were commonly used in pineapple cultivation from the 1940s to the 1960s. The pesticide 1,2-dibromo-3-chloropropane was not detected in the soil samples. • A supplemental investigation conducted later in 2001 identified pesticide contamination in soil up to a depth of five feet below ground surface, and the extent was shown not to exceed beyond the area immediately around Corn Mill Camp. • In general, the contaminants of concern have the potential to pose an exposure risk to humans when in surface soils or close to drinking water sources. However, due to the topography of the area, the existing buildings, and the localized source of the residues, the contaminants are limited to the location. The closest well is an irrigation well located about one mile west of the property. • The Upcountry Town Center property and the buildings were under the operation of the Haleakala Pineapple Company during the 1940-1960 period. The known activities at Corn Mill Camp since that time would not have generated these contaminants.
Upcountry Maui Groundwater Nitrate Investigation Report, Maui, Hawaii (HDOH SDWB 2018)	• The well located hydraulically upgradient from the subject property is the Pookela MDWS (Well 6-5118-002), and the well located hydraulically downgradient is BRE-1 (Well 6-5220-002). The Pookela Well had the lowest nitrate concentration and was located close to a small plot where pineapple was formerly grown and downgradient from scattered on-site sewage disposal systems (OSDS), while the BRE-1 wells are located downgradient from areas of former pineapple cultivation and significant densities of OSDS. The Maluhia (Well 6-5018-001) was not identified as a good candidate for sampling.

Source	Environmental Concerns/Notes:
	• Nitrate concentrations in BRE-1 well based on nitrate isotopic analysis were determined to be a mixture of fertilizer and OSDS leachate. Initial testing of the BRE-1 well shows nitrate concentrations very close to the maximum containment level. The groundwater flow and transport modeling indicate that drinking water standards are very likely exceeded downgradient of the areas of highest OSDS density.

4.6 Summary of Historical Land Use

The lower coastal region of Maui was extensively developed for sugar and pineapple cultivation during the mid-to-late 1800s. The lands in and surrounding the current project area were noted to have contained heiaus, ceremonial sites set in the Makawao/Pukalani region of the ahupuaa. However, in the years since European contact, the subject and surrounding properties have undergone heavy landscape modifications by historic sugar and pineapple cultivation and forest clearance.

ML&PC began experimentation with pineapple in 1890, when the first fruit was planted in Haiku on Maui's northeastern shore. In 1909, Keahua Ranch Company was established. The company's name was later changed to Haleakala Pineapple Company and eventually to Maui Pineapple Company Ltd. in 1932 (ML&PC 2023).

In West Maui the Baldwin Family holdings dedicated to raising cattle and food crops was called Honolua Ranch. Manager David T. Fleming added pineapple to the operations in 1912, and by 1920, the name was changed to Baldwin Packers, which canned and sold pineapple under its own labels while growing it at Honolua Plantation (ML&PC 2023).

By 1923, Baldwin Packers owned and managed over 22,000 acres of agricultural land in West Maui. The Baldwins' east and West Maui holdings and pineapple operations were united in 1962, when Baldwin Packers merged with Maui Pineapple Company. In 1969, ML&P was created and went public. In 1988 ML&P dedicated 8,304 acres of land, including Puu Kukui, the summit of Mauna Kahalawai (West Maui mountains), to conservation (ML&PC 2023). ML&P ceased pineapple operations in 2009.

The Samual Enoka KIS property, including the subject property area, was opened as a public school in 1985. Prior to the construction of the school, the site was in pineapple cultivation. No other land use was found for the subject property.

Section 5 Visual Site Inspection

5.1 Methodology and Limitations

The VSI was conducted by Mr. Eric Lau, with E2 on September 21, 2023, and included a brief survey of visible portions of the adjacent parcels from public access areas. Site photographs are included in Appendix A.

5.2 General Observations on the Subject Property

At the time of the VSI, the subject property consisted of a relatively flat, open grassy area with trees and picnic tables, and portions of a sanitary sewer system (sanitary sewer manhole cover). There was also a coned off area demarcating a trip hazard on the west side of the site.

The west side of the site slopes slightly toward the storm drain located in front of Building P-8/9. The proposed construction site is located on the south side of the KIS campus and is surrounded by concrete walkways, adjacent school buildings, an access road, and a parking lot.

Table 5-1 below summarizes the VSI observations made during the VSI.

Table 5-1: Summary of Visual Site Inspection Observations

Feature	Observed?		Comment, Location, and/or Description
	Yes	No	
General Description of Current Structures (age, stories, ancillary structures [if any])		✓	
Structures (evidence of former)		✓	No evidence of former structures was observed.
Source of Potable Water		✓	
Sanitary Sewer System	✓		A "sanitary sewer" manhole, likely a portion of the former sanitary sewer system serving Building O on the KIS campus, was observed within the new building construction area.
Storm Sewer System	✓		A sloped drainage area and storm drain were observed to the west of the likely construction area in the vicinity of Building P-8/9.
Power to Subject Property		✓	
Interior and Exterior Observations			
Hazardous Substances and Petroleum Products in Connection with Identified Uses		✓	
Hazardous Substances and Petroleum Products (Not Necessarily in Connection with Identified Uses)		✓	
Evidence of ASTs		✓	
Evidence of USTs (e.g.., fill pipes, vent pipes, concrete patching)		✓	
Drums, Totes, and/or Unidentified Substances Containers		✓	
Odors (strong, pungent, or noxious odors)		✓	

Feature	Observed?		Comment, Location, and/or Description
	Yes	No	
Pools of Liquid (standing water)		✓	
Evidence of polychlorinated biphenyls (PCBs) or likely containing PCBs (e.g., pole-mounted and pad-mounted transformer, electric or hydraulic equipment, fluorescent light ballasts, capacitors)		✓	
Heating/Cooling (including fuel source)		✓	
Evidence of Leaks, Spills, or Releases		✓	
Drains and Sumps		✓	
Unknown feature(s)		✓	
Exterior Observations			
Pits, Ponds, or Lagoons		✓	
Stained Soil or Pavement		✓	
Stressed Vegetation (from something other than insufficient water)		✓	
Solid Waste (non-natural fill, trash, construction debris, demolition debris, or other solid waste disposal)		✓	
Waste or Wastewater Discharges (wastewater or other liquid [including storm water] or any discharge into a drain, ditch, underground injection system, or stream on or adjacent to the property)		✓	
Wells (including dry wells, irrigation wells, injection wells, abandoned wells, or other wells)		✓	
Septic System (on-site septic systems or cesspools)		✓	
Other		✓	

5.3 Adjacent Property Observations

The adjacent properties were inspected for PECs (e.g., conditions observed near or adjacent to the subject property that could affect the subject property). No PECs were identified during the site inspection.

A number of structures were located around the vicinity of the subject property, including Buildings P-6, P-7, P-8/9, and Building O.

Section 6 Interviews

6.1 Interviewed Parties

E2 interviewed the following people listed in Table 6-1 regarding the past and current use and activities on the subject and adjacent properties.

Table 6-1: Interviewed Parties

Name	Affiliation	Role
Ms. Tami Mane Haili	Principal for Samual Kalama Intermediate School • No response to the phone call has been received as of the date of this report. Ms. Haili did complete the User Questionnaire.	User
Ms. Rosa Iu	Public Records Contact for the HDOH HEER Office	Local Government Agency File Review
Mr. Glenn Haae	Engineering Section for the HDOH HSWB	Local Government Agency File Review
Ms. Iris Van Der Zander	Geologist for the HDOH SDWB	Local Government Agency File Review
Ms. Lori Morikami	Planner for the Planning & Design Section for the HDOH WWB	Local Government Agency File Review

6.2 Interview Findings

Additional information obtained during interviews is included in the pertinent sections of this report.

This page intentionally left blank.

Section 7 Findings and Opinions

A summary of site conditions as identified from the records review and the VSI are outlined in Table 7-1.

Table 7-1: Findings and Opinions

Findings	*Determination*				
	REC	CREC	HREC	PEC	*de minimums*
According to historic information, the property may have been used for pineapple cultivation. Fertilizers, herbicides, insecticides, nematicides, and fungicides are applied to maintain crop growth and control weeds, pests, and diseases. These are suspected to have been legally applied and may have been applied to the subject and adjacent property area and may have impacted the site.				✓	
Cesspools have significant impact on the quality of drinking water, general water quality, the health of our reefs, and human health. Act 125 was passed in the 2017 legislative session, requiring the replacement of all cesspools by 2050. The area is not serviced by a central wastewater system but through individual cesspools and septic systems.				✓	
EDR identified several sites located within the search radii and/or those with environmental concerns. The sites identified that have the potential to impact the subject property due to material releases or types of materials stored and/or used are as follows: • Four SHWB sites, Maui Electric Company, Ltd. (MECO) Pole-mounted transformer, MECO Transformer 363, Makawao Elementary School, and MECO Pole-Mounted Transformer. The three MECO sites have been issued a NFA Letter for Unrestricted land use. The Makawao Elementary School is reported under FUDS Makawao Station Hospital. Due to their distance from the subject property, the three MECO sites have likely not had any impact to the subject property. • One State LUST site, Minit Stop Makawao (Facility ID: 9-502183/Release ID: 000035) located hydraulically upgradient was issued a NFA determination in November of 1999. The site still has active USTs that were installed in 1996 (27 years old). Due to the age of the tanks and the location of the site hydraulically upgradient, and overlying a drinking water source aquifer this condition poses a material threat from a future release to the environment and is considered a REC. • One FUDS site, Makawao Station Hospital, no Installation Restoration Program or Military Munitions Response Program projects have been reported for this site. Due to the distance from the subject property, the former Makawao Station Hospital has likely not had any impact to the subject property.				✓ ✓	✓ ✓
Subject Property **0.49-Acre Portion of the Kalama Intermediate School, 120 Makani Road, TMK (2) 2-4-032:Parcel 109 (Portion)**					
Construction plans and drawings for the site indicate that the proposed administration building will be placed over a "Sewage Absorption Field." A manhole was noted during the VSI. It is not known if the sewage system was closed, as no closure information was found. Although this is not considered a REC by ASTM standards, an engineer should be consulted prior to the construction of any structures above the absorption field.				✓	

This page intentionally left blank.

Section 8 Conclusions

E2 performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E1527-21, *Standard Practice for Environmental Site Assessments*, in support of the construction of a new modular administration building located on a 0.49-acre portion of the 10.4-acre KIS campus in the Makawao district of Maui, Hawaii and designated as TMK: (2) 2-4-032: Parcel 109 (portion). Any exceptions to, or deletions from, this practice are described in Section 1 of this report.

The assessment has revealed no evidence of RECs, CRECs, or HRECs in connection with the property. PECs, which cannot be definitively categorized as RECs due to insufficient available information required to make a determination, were identified in Section 7.

This page intentionally left blank.

Section 9 Qualifications of Environmental Professionals

Qualifications of the Environmental Professionals are included in Appendix E.

This page intentionally left blank.

Section 10 References

ASTM International [ASTM]. 2010. "ASTM Designation E2600-10 Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions." West Conshohocken: ASTM International.

—. 2021. "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, Designation E1527-21."

CCCarto. Undated. "Hawaii Pineapple Map, Maui (Central North) Haiku Pineapple Growing Region." https://www.cccarto.com/pineapple/.

County of Maui. 1996. "Community Plan Maps, Makawao-Pukalani-Kula Community Plan." July 23.

—. 2023a. "The Maui County Tax Assessor's Office." https://qpublic.schneidercorp.com/, October 5.

—. 2023b. "Zoning (County of Maui), Hawaii Statewide GIS Program." https://geoportal.hawaii.gov/datasets/5a9219603d4b41719562928716a30def/explore?location=20.852707%2C-156.314754%2C14.96, October 10.

—. 2023c. "Real Property Tax Division, Tax Map, County of Maui, Zone 2, Section 4, Plat 32, Pau Hana Estates Subdivision, F.P. 1502, Kailua, Haliimaile, Makawao, Maui, Hawaii, Drawing No. 6399 (Formerly por. 2-4-01 & 2-4-09)."

Department of Accounting and General Services [DAGS]. 1993. "Foundation Investigation and Percolation Testing Proposed 8-Classroom Building, Kalama Intermediate School DAGS Job No. 15-16-5663, TMK: 2-2-4-32:110, Makawao, Maui, Hawaii." Prepared for the Department of Education, January 23.

Donn, John M. 1885. "David Rumsey Historical Map Collection, Hawaiian Government Survey, Maui, Hawaiian Islands."

Element Environmental, LLC [E2]. 2023. "Fee Proposal, Phase I Environmental Site Assessment, Kalama Intermediate School, 120 Makani Road, Makawao, Maui, Hawaii." Prepared for Bowers + Kubota, May 16.

Environmental Data Resources, Inc. [EDR]. 2023a. "The EDR Radium Map Report with GeoCheck, Kalama Intermediate School, 120 Makani Rd, Makawao, HI 96768, Inquiry Number: 7410984.2s." August 8.

—. 2023b. "EDR Environmental Lien and AUL Search, Kalama Intermediate School, 120 Makani Rd, Makawao, HI 96768, Inquiry Number: 7410984.7S." August 11.

—. 2023c. "The EDR Property Tax Map Report, Kalama Intermediate School, 120 Makani Rd, Makawao, HI 96768, Inquiry Number: 7410984.6." August 8.

—. 2023d. "The EDR Aerial Photo Decade Package, Kalama Intermediate School, 120 Makani Rd, Makawao, HI 96768, Inquiry Number: 7410984.11." August 8.

—. 2023e. "Certified Sanborn Map Report, Kalama Intermediate School, 120 Makani Rd, Makawao, HI 96768, Inquiry Number: 7410984.3." August 8.—. 2023f. "EDR Historical Topo Map Report, Kalama Intermediate School, 120 Makani Rd, Makawao, HI 96768, Inquiry Number: 7410984.4." August 8.

—. 2023e. "EDR Historical Topo Map Report with QuadMatch, Kalama Intermediate School, 120 Makani Rd, Makawao, HI 96768, Inquiry Number: 7410984.4." August 8.

—. 2023g. "The EDR-City Directory Image Report, Kalama Intermediate School, 120 Makani Rd, Makawao, HI 96768, Inquiry Number: 7410984.5." August 8.

—. 2023h. "EDR Building Permit Report, Kalama Intermediate School, 120 Makani Rd, Makawao, HI 96768, Inquiry Number: 7410984.8." August 8.

Federal Emergency Management Agency [FEMA]. 2009. "Federal Insurance Rate Map 1500030440E." September.

Google Earth. 2023. "Aerial Photograph Images from 2001, 2004, 2005, 2011, 2012, 2013, 2014, 2016, 2018, 2019, 2022, and 2023." October 05.

Hiyakumoto + Higuchi Architects, Inc. 1995. "Final Environmental Assessment, Eddie Tam Memorial Park, Upgrade & Expansion." Prepared for Department of Parks and Recreation, County of Maui, June.

Mink, John F, and Stephen L Lau. 1990. "Technical Report No. 185, Aquifer Identification and Classification for the Island of Maui: Groundwater Protection Strategy for Hawaii." Water Resources Research Center, University of Hawaii at Manoa, February.

Maui Land & Pineapple Company, Inc. [ML&PC]. 2023. "Maui Land & Pineapple Company, Inc. History." http://www.mauiland.com/history.shtml, October 6.

State of Hawaii. 2021. "Historical Pineapple Lands."

—. 2023. "Land Use District Boundaries." https://histategis.maps.arcgis.com/apps/webappviewer/index.html?id=b843c728b4cb4333b1df015fdaa84104, October 10.

State of Hawaii Department of Education [HDOE]. 2023. "Office of Facilities and Operations, Improving Hawaii School Facilities Website." https://www.hidoefacilities.org/, October 9.

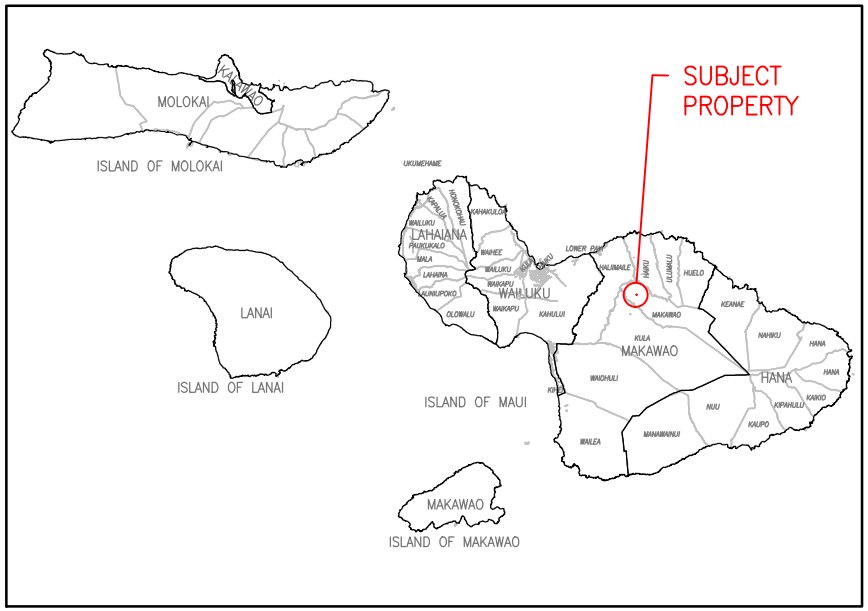
State of Hawaii Department of Health [HDOH] Hazard Evaluation and Emergency Response [HEER] Office. 2015. "State of Hawaii GIS Maps, Sugarcane in the State of Hawaii From 1900-1937."

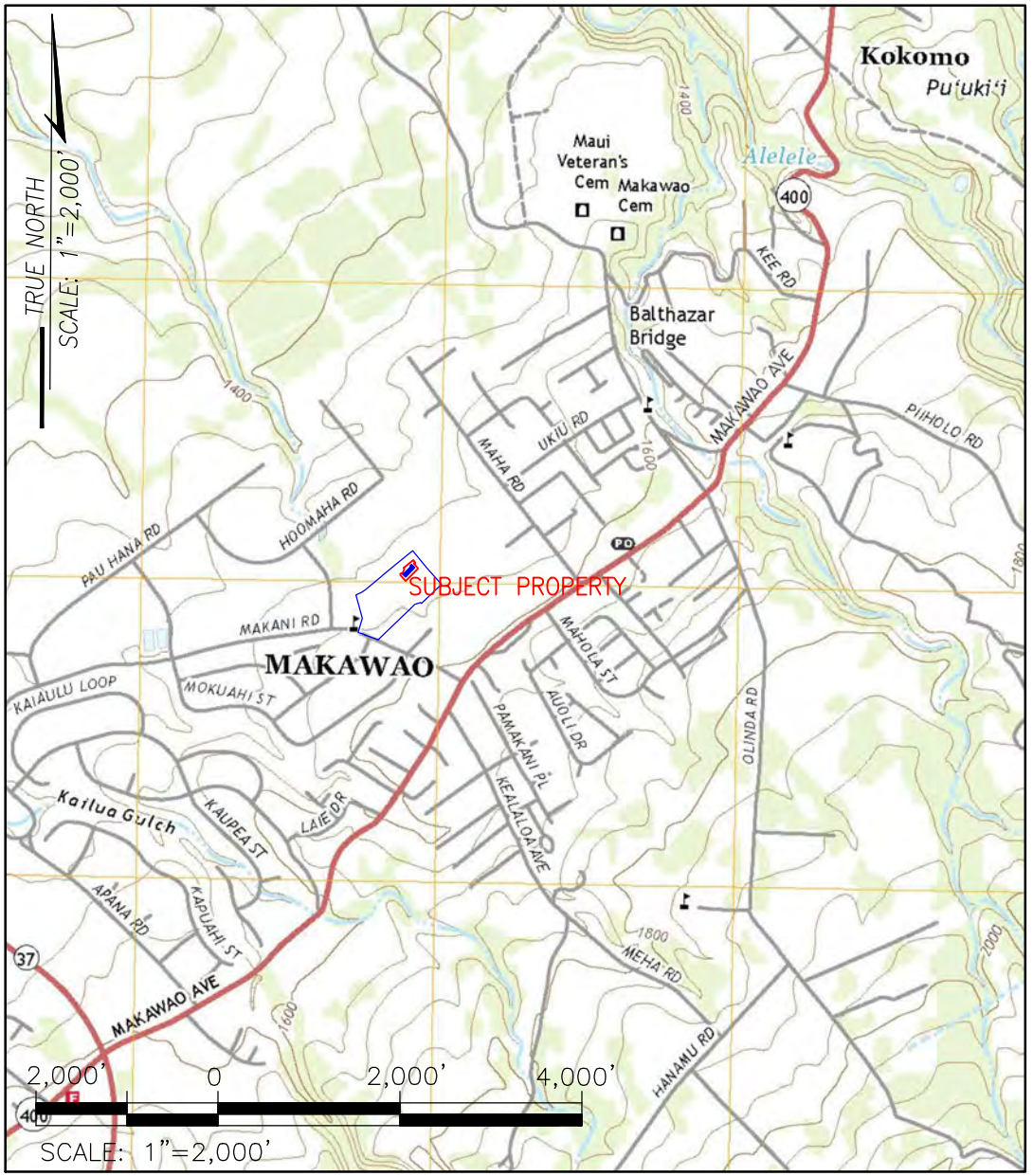
State of Hawaii Department of Health [HDOH] Safe Drinking Water Branch [SDWB]. 2018. "Draft Upcountry Maui Groundwater Nitrate Investigation Report, Maui, Hawaii." February.

United States Department of Agriculture [USDA] Natural Resources Conservation Service [NRCS]. 2023. "Web Soil Survey." October 10.

APPENDIX A

Figures and Photographs





	DATE: OCT 2023	PROJECT TITLE: KALAMA INTERMEDIATE SCHOOL 120 MAKANI ROAD, MAKAWAO, MAUI, HAWAII
	FIGURE TITLE: SITE VICINITY AND LOCATION MAP	FIGURE NO.: 1

REFERENCES: STATE OF HAWAII 2017, USGS 2017, AND GOOGLE EARTH 2023

TRUE NORTH
SCALE: 1"=100'

2-4-032:098
Eddie Tam Park
Hale Kipa Road
County of Maui (owner)

2-4-032:098
Eddie Tam Park
Hale Kipa Road
County of Maui (owner)

2-4-006:005
Eddie Tam Park Expansion Area
931 Makawao Avenue
County of Maui (owner)

CONED AREA

SEWER MANHOLE

2-4-032:109
120 Makani Road
State of Hawaii (Owner)
Dept of Education (EO)
454,455 sqft

2-4-032:110
140 Makani Road
State of Hawaii (Owner)
Dept of Education (EO)

2-4-006:128
52 Makani Road

2-4-006:097
96 Makani Road

2-4-006:096
96 Makani Road

2-4-006:095
96 Makani Road
96 Makani LLC (owner)

2-4-006:061
96 Makani Road

2-4-034:051
10 Mikiola Street

HALE KIPA ROAD

MAKANI ROAD

36 MARKED STALLS 04

SEWAGE ABSORPTION FIELD

CLASSROOM BUILDING O

PLAYCOURT 02

P.E. LOCKER & SHOWER BUILDING M

P-1 P-2 P-3 P-4 P-5 P-6 P-7 P-8 P-9

7 MARKED STALLS 03

IND. ARTS E

BUILDING F

3 MARKED STALLS

CLASSROOM BUILDING G

BUILDING D

MUSIC BUILDING K

CLASSROOM BUILDING H

KITCHEN/DINING RM. BUILDING B

CLASSROOM BUILDING I

CAR LOADING AREA

68 MARKED STALLS 01

SEPTIC TANK

LEACHING FIELD

GENERATOR SHED

LEACHING BED 4

LEACHING BED 2

LEACHING BED 3

LEACHING BED 1

CLASSROOM BUILDING Q

100' 0 100' 200'

SCALE: 1"=100'

element environmental llc
environmental · engineering · water resources

PROJECT TITLE:
KALAMA INTERMEDIATE SCHOOL
120 MAKANI ROAD, MAKAWAO, MAUI, HAWAII

FIGURE TITLE:
ADJACENT PROPERTY MAP

DATE:
OCT 2023

FIGURE NO.:
2

Photo 1	**Description**	Overall of subject property from southwest corner of Building O. View facing north.
Photo Date 9/21/2023	**Site Name**	Phase I Environmental Site Assessment Kalama Intermediate School Makawao, Maui, Hawaii; TMK (2) 2-4-032: Parcel 109 (Portion)
E2 Project No.: 230044	**Client**	Bowers + Kubota

Photo 2	**Description**	Overall of subject property. View facing north.
Photo Date 9/21/2023	**Site Name**	Phase I Environmental Site Assessment Kalama Intermediate School Makawao, Maui, Hawaii; TMK (2) 2-4-032: Parcel 109 (Portion)
E2 Project No.: 230044	**Client**	Bowers + Kubota

Photo 3	**Description**	Overall of subject property. View facing west.
Photo Date 9/21/2023	**Site Name**	Phase I Environmental Site Assessment Kalama Intermediate School Makawao, Maui, Hawaii; TMK (2) 2-4-032: Parcel 109 (Portion)
E2 Project No.: 230044	**Client**	Bowers + Kubota

Photo 4	**Description**	Overall of subject property. View facing south.
Photo Date 9/21/2023	**Site Name**	Phase I Environmental Site Assessment Kalama Intermediate School Makawao, Maui, Hawaii; TMK (2) 2-4-032: Parcel 109 (Portion)
E2 Project No.: 230044	**Client**	Bowers + Kubota

Photo 5	**Description**	A sanitary sewer manhole along the southeast boundary of the subject property. View facing northeast.
Photo Date 9/21/2023	**Site Name**	Phase I Environmental Site Assessment Kalama Intermediate School Makawao, Maui, Hawaii; TMK (2) 2-4-032: Parcel 109 (Portion)
E2 Project No.: 230044	**Client**	Bowers + Kubota

Photo 6	**Description**	A stormwater drain inlet located adjacent to building P-8/9 to the south of the subject property. View facing west.
Photo Date 9/21/2023	**Site Name**	Phase I Environmental Site Assessment Kalama Intermediate School Makawao, Maui, Hawaii; TMK (2) 2-4-032: Parcel 109 (Portion)
E2 Project No.: 230044	**Client**	Bowers + Kubota

APPENDIX B

User Questionnaire

element environmental llc
environmental · engineering · water resources

PHASE I ENVIRONMENTAL SITE ASSESSMENT USER QUESTIONNAIRE

In order to qualify for one of the Landowner Liability Protections offered by the Brownfields Amendments and pursuant to the User's responsibilities as described in Section 6 of ASTM E 1527-21, the User must provide the following information (if available) to the environmental professional. **Failure to provide this information could result in a determination that "all appropriate inquiry" is not complete.**

COMPLETED BY:

Name: Tami Mahê Hailí

Title: Principal

Company: Kalama Intermediate School

Date: 8/8/23

SUBJECT PROPERTY NAME AND ADDRESS(ES):

SE. Kalama Intermediate School - 120 Makani Rd, Makawao, HI

USER KNOWLEDGE:

1. **Environmental Cleanup Liens**

   Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law?

   Not to my knowledge

   The User should engage a title company or title professional to undertake a review of reasonably ascertainable recorded land title records and lien records, including judicial records, for environmental liens or activity and use limitations.

2. **Activity and Land Use Limitations**

   Are you aware of any activity and use limitations, such as engineering controls, land use restrictions, or institutional controls, that are in place at the subject property and/or have been filed or recorded in a registry under federal, tribal, state, or local law?

   Not to my knowledge

3. **Specialized Knowledge or Experience**

   As the User of this Phase I ESA, do you have any specialized knowledge or experience related to the property or nearby properties? (Are you involved in the same line of business as the current or former occupants of the property or adjoining properties so that you would have specialized knowledge of the chemicals and processes used by this type of business?)

   Not to my knowledge

4. **Relationship of the Purchase Price to the Fair Market Value**

Does the purchase price being paid for this property reasonably reflect the fair market value of the property?If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?

Not to my knowledge

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

Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? (No)

Not to my knowledge

Please provide the name(s) and contact information for the previous property owner.

N/A

Do you know the past use(s) of the property?

No

Do you know of specific chemicals that are present or once were present at the property?

None that I am aware of

Do you know of spills or other chemical releases that have taken place at the property?

None that I am aware of

Other Issues, Comments, or Concerns?

N/A

6. **Degree of Obviousness of Presence of Contamination**

As the User of this Phase I ESA, based on your knowledge and experience related to the property, are there any obvious indicators that point to the presence or likely presence of contamination at the property?

None to my knowledge

7. **Reason for Conducting Phase I ESA**

N/A

APPENDIX C

Environmental Data Resources, Inc. (EDR) Reports

Kalama Intermediate School
120 MAKANI RD
MAKAWAO, HI 96768

Inquiry Number: 7410984.2s
August 08, 2023

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

FORM-LBB-KKT

TABLE OF CONTENTS

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

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 (E1527 - 21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E2247 - 16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E1528 - 22) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

120 MAKANI RD
MAKAWAO, HI 96768

COORDINATES

Latitude (North):	20.8508910 - 20° 51' 3.20''
Longitude (West):	156.3203670 - 156° 19' 13.32''
Universal Tranverse Mercator:	Zone 4
UTM X (Meters):	778847.5
UTM Y (Meters):	2307831.2
Elevation:	1542 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	9757719 HAIKU, HI
Version Date:	2017
Northwest Map:	9757761 PAIA, HI
Version Date:	2017

MAPPED SITES SUMMARY

Target Property Address:
120 MAKANI RD
MAKAWAO, HI 96768

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1	MECO POLE-MOUNT TRAN	1130 NAKUI ST	SHWS, SPILLS	Higher	2397, 0.454, ENE
2	MINIT STOP MAKAWAO	1100 MAKAWAO AVE	LUST, UST, Financial Assurance	Higher	2481, 0.470, ENE
3	MECO TRANSFORMER 363	1159 MAKAWAO AVE	SHWS	Higher	2785, 0.527, ENE
4	MAKAWAO STATION HOSP		FUDS	Lower	2852, 0.540, NNE
A5	MAKAWAO ELEMENTARY S	3542 BALDWIN AVENUE	SHWS	Higher	2974, 0.563, NE
A6	MECO POLE-MOUNT TRAN	BALDWIN AVE	SHWS	Higher	3083, 0.584, NE

TARGET PROPERTY SEARCH RESULTS

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

DATABASES WITH NO MAPPED SITES

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

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

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

Lists of Federal Delisted NPL sites

Delisted NPL ..... National Priority List Deletions

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY ..... Federal Facility Site Information listing
SEMS ..... Superfund Enterprise Management System

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE ..... Superfund Enterprise Management System Archive

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS ..... Corrective Action Report

Lists of Federal RCRA TSD facilities

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

Lists of Federal RCRA generators

RCRA-LQG ..... RCRA - Large Quantity Generators
RCRA-SQG ..... RCRA - Small Quantity Generators
RCRA-VSQG ..... RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

Federal institutional controls / engineering controls registries

LUCIS ..... Land Use Control Information System

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

Federal ERNS list

ERNS ..... Emergency Response Notification System

Lists of state and tribal landfills and solid waste disposal facilities

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

Lists of state and tribal leaking storage tanks

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

Lists of state and tribal registered storage tanks

FEMA UST ..... Underground Storage Tank Listing
UST ..... Underground Storage Tank Database
INDIAN UST ..... Underground Storage Tanks on Indian Land

State and tribal institutional control / engineering control registries

ENG CONTROLS ..... Engineering Control Sites
INST CONTROL ..... Sites with Institutional Controls

Lists of state and tribal voluntary cleanup sites

INDIAN VCP ..... Voluntary Cleanup Priority Listing
VCP ..... Voluntary Response Program Sites

Lists of state and tribal brownfield sites

BROWNFIELDS ..... Brownfields Sites

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

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

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY ..... Solid Waste Recycling Information
INDIAN ODI ..... Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9 ..... Torres Martinez Reservation Illegal Dump Site Locations
ODI ..... Open Dump Inventory
IHS OPEN DUMPS ..... Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL ..... Delisted National Clandestine Laboratory Register
CDL ..... Clandestine Drug Lab Listing
US CDL ..... National Clandestine Laboratory Register

Local Land Records

LIENS 2	CERCLA Lien Information

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
SPILLS	Release Notifications
SPILLS 90	SPILLS 90 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated
DOD	Department of Defense Sites
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
2020 COR ACTION	2020 Corrective Action Program List
TSCA	Toxic Substances Control Act
TRIS	Toxic Chemical Release Inventory System
SSTS	Section 7 Tracking Systems
ROD	Records Of Decision
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations
FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
ABANDONED MINES	Abandoned Mines
FINDS	Facility Index System/Facility Registry System
UXO	Unexploded Ordnance Sites
DOCKET HWC	Hazardous Waste Compliance Docket Listing
ECHO	Enforcement & Compliance History Information
FUELS PROGRAM	EPA Fuels Program Registered Listing
PFAS NPL	Superfund Sites with PFAS Detections Information
PFAS FEDERAL SITES	Federal Sites PFAS Information
PFAS TSCA	PFAS Manufacture and Imports Information
PFAS RCRA MANIFEST	PFAS Transfers Identified In the RCRA Database Listing
PFAS ATSDR	PFAS Contamination Site Location Listing

PFAS WQP	Ambient Environmental Sampling for PFAS
PFAS NPDES	Clean Water Act Discharge Monitoring Information
PFAS ECHO	Facilities in Industries that May Be Handling PFAS Listing
PFAS ECHO FIRE TRAINING	Facilities in Industries that May Be Handling PFAS Listing
PFAS PART 139 AIRPORT	All Certified Part 139 Airports PFAS Information Listing
AQUEOUS FOAM NRC	Aqueous Foam Related Incidents Listing
PFAS	PFAS Contamination Site Listing
AIRS	List of Permitted Facilities
DRYCLEANERS	Permitted Drycleaner Facility Listing
Financial Assurance	Financial Assurance Information Listing
LEAD	LEAD
UIC	Underground Injection Wells Listing
MINES MRDS	Mineral Resources Data System
PFAS TRIS	List of PFAS Added to the TRI

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants
EDR Hist Auto	EDR Exclusive Historical Auto Stations
EDR Hist Cleaner	EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS	Recovered Government Archive State Hazardous Waste Facilities List
RGA LF	Recovered Government Archive Solid Waste Facilities List
RGA LUST	Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

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

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

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

STANDARD ENVIRONMENTAL RECORDS

Lists of state- and tribal hazardous waste facilities

SHWS: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state

funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Health.

A review of the SHWS list, as provided by EDR, and dated 11/22/2022 has revealed that there are 4 SHWS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MECO POLE-MOUNT TRAN	***1130 NAKUI ST***	***ENE 1/4 - 1/2 (0.454 mi.)***	***1***	***8***
MECO TRANSFORMER 363	1159 MAKAWAO AVE	ENE 1/2 - 1 (0.527 mi.)	3	14
MAKAWAO ELEMENTARY S	3542 BALDWIN AVENUE	NE 1/2 - 1 (0.563 mi.)	A5	16
MECO POLE-MOUNT TRAN	BALDWIN AVE	NE 1/2 - 1 (0.584 mi.)	A6	17

Lists of state and tribal leaking storage tanks

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

A review of the LUST list, as provided by EDR, and dated 02/21/2023 has revealed that there is 1 LUST site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MINIT STOP MAKAWAO	***1100 MAKAWAO AVE***	***ENE 1/4 - 1/2 (0.470 mi.)***	***2***	***9***
Release ID: 000035				
Facility Id: 9-502183				
Facility Status: Site Cleanup Completed (NFA)				

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

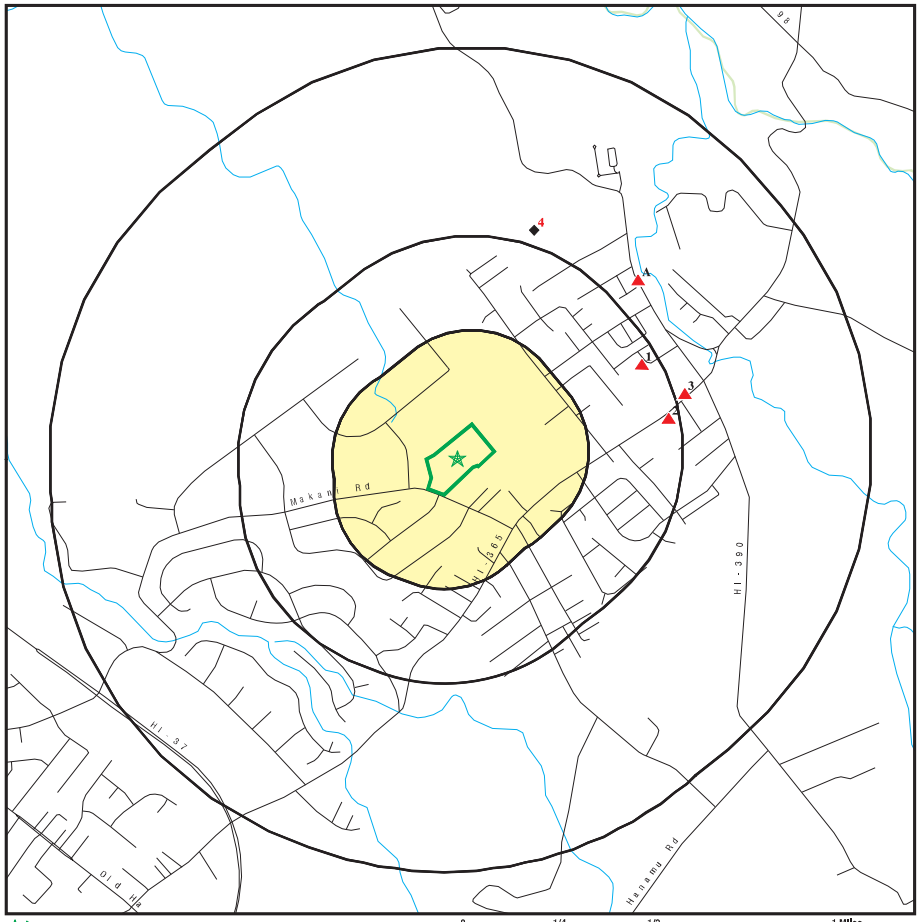
FUDS: The Listing includes locations of Formerly Used Defense Sites Properties where the US Army Corps Of Engineers is actively working or will take necessary cleanup actions.

A review of the FUDS list, as provided by EDR, and dated 05/08/2023 has revealed that there is 1 FUDS site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
MAKAWAO STATION HOSP		NNE 1/2 - 1 (0.540 mi.)	4	15

There were no unmapped sites in this report.

OVERVIEW MAP - 7410984.2S



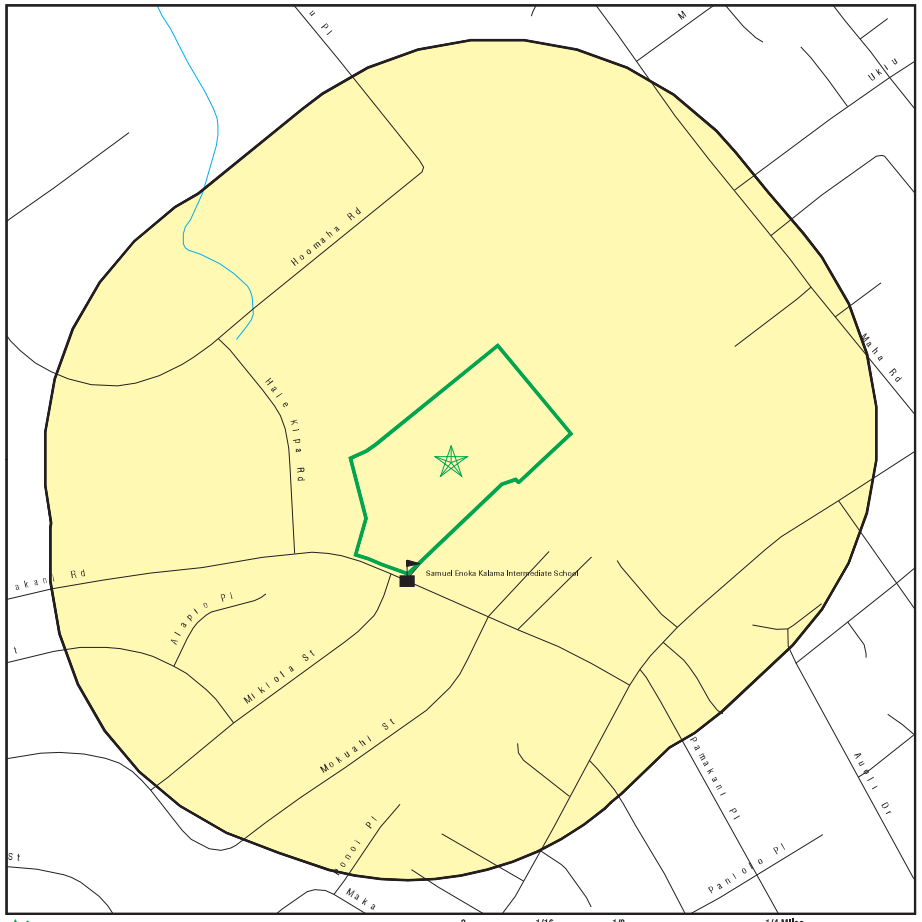
0 1/4 1/2 1 Miles

- 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
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- National Wetland Inventory
- State Wetlands

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: Kalama Intermediate School ADDRESS: 120 MAKANI RD MAKAWAO HI 96768 LAT/LONG: 20.850891 / 156.320367	CLIENT: Element Environmental , LLC CONTACT: Angie Peltier INQUIRY #: 7410984.2s DATE: August 08, 2023 12:02 pm

DETAIL MAP - 7410984.2S



0 1/16 1/8 1/4 Miles

- 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
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard

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: Kalama Intermediate School ADDRESS: 120 MAKANI RD MAKAWAO HI 96768 LAT/LONG: 20.850891 / 156.320367	CLIENT: Element Environmental , LLC CONTACT: Angie Peltier INQUIRY #: 7410984.2s DATE: August 08, 2023 12:02 pm

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Lists of Federal NPL (Superfund) sites								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Lists of Federal Delisted NPL sites								
Delisted NPL	1.000		0	0	0	0	NR	0
Lists of Federal sites subject to CERCLA removals and CERCLA orders								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Lists of Federal CERCLA sites with NFRAP								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA facilities undergoing Corrective Action								
CORRACTS	1.000		0	0	0	0	NR	0
Lists of Federal RCRA TSD facilities								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA generators								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
Lists of state- and tribal hazardous waste facilities								
SHWS	1.000		0	0	1	3	NR	4
Lists of state and tribal landfills and solid waste disposal facilities								
SWF/LF	0.500		0	0	0	NR	NR	0
Lists of state and tribal leaking storage tanks								
LUST	0.500		0	0	1	NR	NR	1

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
Lists of state and tribal registered storage tanks								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
ENG CONTROLS	0.500		0	0	0	NR	NR	0
INST CONTROL	0.500		0	0	0	NR	NR	0
Lists of state and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
Lists of state and tribal brownfield sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	0.001		0	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
SPILLS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	1	NR	1
DOD	1.000		0	0	0	0	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
PFAS NPL	0.250		0	0	NR	NR	NR	0
PFAS FEDERAL SITES	0.250		0	0	NR	NR	NR	0
PFAS TSCA	0.250		0	0	NR	NR	NR	0
PFAS RCRA MANIFEST	0.250		0	0	NR	NR	NR	0
PFAS ATSDR	0.250		0	0	NR	NR	NR	0
PFAS WQP	0.250		0	0	NR	NR	NR	0
PFAS NPDES	0.250		0	0	NR	NR	NR	0
PFAS ECHO	0.250		0	0	NR	NR	NR	0
PFAS ECHO FIRE TRAINING	0.250		0	0	NR	NR	NR	0
PFAS PART 139 AIRPORT	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM NRC	0.250		0	0	NR	NR	NR	0
PFAS	0.250		0	0	NR	NR	NR	0
AIRS	0.001		0	NR	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
LEAD	0.001		0	NR	NR	NR	NR	0
UIC	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
MINES MRDS	0.001		0	NR	NR	NR	NR	0
PFAS TRIS	0.250		0	0	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA HWS	0.001		0	NR	NR	NR	NR	0
RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		0	0	0	2	4	0	6

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

1
ENE
1/4-1/2
0.454 mi.
2397 ft.

MECO POLE-MOUNT TRANSFORMER NO. 6159
1130 NAKUI ST
MAKAWAO, HI 96768

SHWS **S113230498**
SPILLS **N/A**

Relative:
Higher

Actual:
1587 ft.

SHWS:

Name:	MECO POLE-MOUNT TRANSFORMER NO. 6159
Address:	1130 NAKUI ST
City,State,Zip:	MAKAWAO, HI 96768
Supplemental Location:	Not reported
Island:	Maui
Environmental Interest:	MECO Pole-Mount Transformer No. 6159
HID Number:	Not reported
Facility Registry Identifier:	Not reported
Lead Agency:	HEER Office
Program:	State
Project Manager:	Amelia Hicks
Hazard Priority:	NFA
Potential Hazards And Controls:	No Hazard
Island:	Maui
SDAR Environmental Interest Name:	MECO Pole-Mount Transformer No. 6159
HID Number:	Not reported
Facility Registry Identifier:	Not reported
Lead Agency:	HEER Office
Potential Hazard And Controls:	No Hazard
Priority:	NFA
Assessment:	Response Necessary
Response:	Response Complete
Nature of Contamination:	Not reported
Nature of Residual Contamination:	PAH detected at <0.1 mg/kg; PCB detected at <0.51 mg/kg; TPH detected at 620 mg/kg
Use Restrictions:	No Hazard Present For Unrestricted Residential Use
Engineering Control:	No Engineering Control Required
Description of Restrictions:	Not reported
Institutional Control:	Not reported
Within Designated Areawide Contamination:	Not reported
Site Closure Type:	No Further Action Letter - Unrestricted Residential Use
Document Date:	05/10/2012
Document Number:	2012-290-AH
Document Subject:	No Further Action Determination for MECO Pad-Mount Transformer No 15683 (Incident ID 20091125-1412), Pole-Mount Transformer No 6159 (Incident ID 20080626-1149), No 6748 (Incident ID 20091203-1124) and No 9353 (Incident ID 20080320-1427)
Project Manager:	Amelia Hicks
Contact Information:	(808) 586-4249 2385 Waimano Home Rd, Pearl City, HI 96782
Facility ID:	2584
Location Description:	1130 Nakui St
Is Public:	True
Update On:	05/30/2019
Latitude:	20.854637
Longitude:	-156.31276
Aliases:	Not reported
Status Name:	NFA

SPILLS:

Name:	MECO POLE-MOUNT TRANSFORMER NO. 6159
Address:	1130 NAKUI ST
Address 2:	Not reported

MECO POLE-MOUNT TRANSFORMER NO. 6159 (Continued) **S113230498**

City,State,Zip:	MAKAWAO, HI 96768
Island:	Maui
Supplemental Loc. Text:	Not reported
Case Number:	20080626-1149
Facility Registry ID:	Not reported
HID Number:	Not reported
Lead and Program:	HEER EP&R
ER:	None
Less Or Greater Than:	Not reported
Units:	MECO Pole-Mount Transformer No. 6159
Activity Type:	Response
Activity Lead:	Liz Galvez
Assignment End Date:	Not reported
Result:	Refer to SDAR
File Under:	MECO-Kahului Baseyard
Substances:	Transformer Oil
Quanity:	1
Units:	Gallons
Reported Date:	Not reported
Release Date:	Not reported
Release Duration:	Not reported
Media:	Not reported
Waterbody:	Not reported
Summary:	Not reported
Is Noteworthy for Reports:	Not reported
Is the Release a Fugitive Dumping:	Not reported
Tax Map Key:	Not reported
Assigned SOSC:	Not reported
Notified Agencies:	Not reported
Response Measures Taken:	Not reported
Incident Report Number:	Not reported
Coordination Needed:	Not reported
Tier II Facility:	Not reported
RMP:	Not reported
Follow-up Received On:	Not reported
Cost Recovery:	Not reported
Invoice To:	Not reported
Closed Date:	Not reported
Comments:	Not reported
Latitude:	Not reported
Longitude:	Not reported

2
ENE
1/4-1/2
0.470 mi.
2481 ft.

MINIT STOP MAKAWAO
1100 MAKAWAO AVE
MAKAWAO, HI 96768

LUST **U001236824**
UST **N/A**
Financial Assurance

Relative:
Higher

Actual:
1640 ft.

LUST:

Name:	MINIT STOP MAKAWAO
Address:	1100 MAKAWAO AVE
City,State,Zip:	MAKAWAO, HI 96768
Facility ID:	9-502183
Facility Status:	Site Cleanup Completed (NFA)
Facility Status Date:	11/29/1999
Release ID:	000035
Project Officer:	Renato Maniulit

MINIT STOP MAKAWAO (Continued) **U001236824**

UST:

Name:	MINIT STOP MAKAWAO
Address:	1100 MAKAWAO AVE
City,State,Zip:	MAKAWAO, HI 96768
Facility ID:	9-502183
Owner:	MAUI PETROLEUM
Owner Address:	385 Hukilike St.
Owner City,St,Zip:	Makawao, 96768 96768
Latitude:	20.852322999999998
Longitude:	-156.31171900000001
Horizontal Reference Datum Name:	NAD83
Horizontal Collection Method Name:	GPS
Tank ID:	1
Date Installed:	02/01/1996
Tank Status:	**Currently In Use**
Date Closed:	Not reported
Tank Capacity:	10000
Substance:	Gasohol
Name:	MINIT STOP MAKAWAO
Address:	1100 MAKAWAO AVE
City,State,Zip:	MAKAWAO, HI 96768
Tank ID:	1
Date Installed:	02/01/1996
Tank Status:	**Currently In Use**
Date Closed:	Not reported
Tank Capacity:	10000
Substance:	Gasohol
Name:	MINIT STOP MAKAWAO
Address:	1100 MAKAWAO AVE
City,State,Zip:	MAKAWAO, HI 96768
Tank ID:	2
Date Installed:	02/01/1996
Tank Status:	**Currently In Use**
Date Closed:	Not reported
Tank Capacity:	10000
Substance:	Gasohol
Name:	MINIT STOP MAKAWAO
Address:	1100 MAKAWAO AVE
City,State,Zip:	MAKAWAO, HI 96768
Tank ID:	2
Date Installed:	02/01/1996
Tank Status:	**Currently In Use**
Date Closed:	Not reported
Tank Capacity:	10000
Substance:	Gasohol
Name:	MINIT STOP MAKAWAO
Address:	1100 MAKAWAO AVE
City,State,Zip:	MAKAWAO, HI 96768

MINIT STOP MAKAWAO (Continued) **U001236824**

Tank ID:	R-1
Date Installed:	05/20/1990
Tank Status:	**Permanently Out of Use**
Date Closed:	03/01/1994
Tank Capacity:	3000
Substance:	Gasoline
Name:	MINIT STOP MAKAWAO
Address:	1100 MAKAWAO AVE
City,State,Zip:	MAKAWAO, HI 96768
Tank ID:	R-1
Date Installed:	05/20/1990
Tank Status:	**Permanently Out of Use**
Date Closed:	03/01/1994
Tank Capacity:	3000
Substance:	Gasoline
Name:	MINIT STOP MAKAWAO
Address:	1100 MAKAWAO AVE
City,State,Zip:	MAKAWAO, HI 96768
Tank ID:	R-2
Date Installed:	05/20/1990
Tank Status:	**Permanently Out of Use**
Date Closed:	03/01/1994
Tank Capacity:	3000
Substance:	Gasoline
Name:	MINIT STOP MAKAWAO
Address:	1100 MAKAWAO AVE
City,State,Zip:	MAKAWAO, HI 96768
Tank ID:	R-2
Date Installed:	05/20/1990
Tank Status:	**Permanently Out of Use**
Date Closed:	03/01/1994
Tank Capacity:	3000
Substance:	Gasoline
Name:	MINIT STOP MAKAWAO
Address:	1100 MAKAWAO AVE
City,State,Zip:	MAKAWAO, HI 96768
Tank ID:	R-3
Date Installed:	05/21/1990
Tank Status:	**Permanently Out of Use**
Date Closed:	03/01/1994
Tank Capacity:	6000
Substance:	Gasoline
Name:	MINIT STOP MAKAWAO
Address:	1100 MAKAWAO AVE
City,State,Zip:	MAKAWAO, HI 96768
Tank ID:	R-3
Date Installed:	05/21/1990

MINIT STOP MAKAWAO (Continued) **U001236824**

Tank Status: **Permanently Out of Use**
Date Closed: 03/01/1994
Tank Capacity: 6000
Substance: Gasoline

Name: MINIT STOP MAKAWAO
Address: 1100 MAKAWAO AVE
City,State,Zip: MAKAWAO, HI 96768

Tank ID: R-4
Date Installed: 05/21/1990
Tank Status: **Permanently Out of Use**
Date Closed: 03/01/1994
Tank Capacity: 550
Substance: Kerosene

Name: MINIT STOP MAKAWAO
Address: 1100 MAKAWAO AVE
City,State,Zip: MAKAWAO, HI 96768

Tank ID: R-4
Date Installed: 05/21/1990
Tank Status: **Permanently Out of Use**
Date Closed: 03/01/1994
Tank Capacity: 550
Substance: Kerosene

HI Financial Assurance:
Name: MINIT STOP MAKAWAO
Address: 1100 MAKAWAO AVE
City,State,Zip: MAKAWAO, HI 96768
Alt Facility ID: 9-502183
Tank Id: R-1
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 11/01/2012
FR Archive: True

Name: MINIT STOP MAKAWAO
Address: 1100 MAKAWAO AVE
City,State,Zip: MAKAWAO, HI 96768
Alt Facility ID: 9-502183
Tank Id: R-4
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 11/01/2012
FR Archive: True

Name: MINIT STOP MAKAWAO
Address: 1100 MAKAWAO AVE
City,State,Zip: MAKAWAO, HI 96768
Alt Facility ID: 9-502183
Tank Id: R-3
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 11/01/2012
FR Archive: True

MINIT STOP MAKAWAO (Continued) **U001236824**

Name: MINIT STOP MAKAWAO
Address: 1100 MAKAWAO AVE
City,State,Zip: MAKAWAO, HI 96768
Alt Facility ID: 9-502183
Tank Id: R-2
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 11/01/2012
FR Archive: True

Name: MINIT STOP MAKAWAO
Address: 1100 MAKAWAO AVE
City,State,Zip: MAKAWAO, HI 96768
Alt Facility ID: 9-502183
Tank Id: 2
Tank Status: Currently In Use
FRTYPE: Insurance
Expiration Date: 11/01/2012
FR Archive: True

Name: MINIT STOP MAKAWAO
Address: 1100 MAKAWAO AVE
City,State,Zip: MAKAWAO, HI 96768
Alt Facility ID: 9-502183
Tank Id: 1
Tank Status: Currently In Use
FRTYPE: Insurance
Expiration Date: 11/01/2012
FR Archive: True

Name: MINIT STOP MAKAWAO
Address: 1100 MAKAWAO AVE
City,State,Zip: MAKAWAO, HI 96768
Alt Facility ID: 9-502183
Tank Id: R-1
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 07/01/2022
FR Archive: False

Name: MINIT STOP MAKAWAO
Address: 1100 MAKAWAO AVE
City,State,Zip: MAKAWAO, HI 96768
Alt Facility ID: 9-502183
Tank Id: R-2
Tank Status: Permanently Out of Use
FRTYPE: Insurance
Expiration Date: 07/01/2022
FR Archive: False

Name: MINIT STOP MAKAWAO
Address: 1100 MAKAWAO AVE
City,State,Zip: MAKAWAO, HI 96768
Alt Facility ID: 9-502183
Tank Id: 1
Tank Status: Currently In Use
FRTYPE: Insurance

MINIT STOP MAKAWAO (Continued) **U001236824**

Expiration Date:	07/01/2022
FR Archive:	False
Name:	MINIT STOP MAKAWAO
Address:	1100 MAKAWAO AVE
City,State,Zip:	MAKAWAO, HI 96768
Alt Facility ID:	9-502183
Tank Id:	R-3
Tank Status:	Permanently Out of Use
FRTYPE:	Insurance
Expiration Date:	07/01/2022
FR Archive:	False
Name:	MINIT STOP MAKAWAO
Address:	1100 MAKAWAO AVE
City,State,Zip:	MAKAWAO, HI 96768
Alt Facility ID:	9-502183
Tank Id:	R-4
Tank Status:	Permanently Out of Use
FRTYPE:	Insurance
Expiration Date:	07/01/2022
FR Archive:	False
Name:	MINIT STOP MAKAWAO
Address:	1100 MAKAWAO AVE
City,State,Zip:	MAKAWAO, HI 96768
Alt Facility ID:	9-502183
Tank Id:	2
Tank Status:	Currently In Use
FRTYPE:	Insurance
Expiration Date:	07/01/2022
FR Archive:	False

3
ENE
1/2-1
0.527 mi.
2785 ft.

MECO TRANSFORMER 3633 **SHWS S110061658**
1159 MAKAWAO AVE **N/A**
MAKAWAO, HI 96768

Relative:
Higher

Actual:
1628 ft.

SHWS:

Name:	MECO TRANSFORMER 3633
Address:	1159 MAKAWAO AVE
City,State,Zip:	MAKAWAO, HI 96768
Supplemental Location:	Makawao Library Site
Island:	Maui
Environmental Interest:	MECO Transformer 3633
HID Number:	Not reported
Facility Registry Identifier:	Not reported
Lead Agency:	HEER Office
Program:	State
Project Manager:	Richard Palmer
Hazard Priority:	NFA
Potential Hazards And Controls:	No Hazard
Island:	Maui
SDAR Environmental Interest Name:	MECO Transformer 3633
HID Number:	Not reported
Facility Registry Identifier:	Not reported
Lead Agency:	HEER Office

MECO TRANSFORMER 3633 (Continued) **S110061658**

Potential Hazard And Controls:	No Hazard
Priority:	NFA
Assessment:	Response Necessary
Response:	Self Implementing TSCA Cleanup
Nature of Contamination:	Found: PCBs in soil
Nature of Residual Contamination:	Not reported
Use Restrictions:	No Hazard Present For Unrestricted Residential Use
Engineering Control:	Not reported
Description of Restrictions:	Not reported
Institutional Control:	Not reported
Within Designated Areawide Contamination:	Not reported
Site Closure Type:	No Further Action Letter - Unrestricted Residential Use
Document Date:	02/02/2011
Document Number:	2011-062-PC
Document Subject:	Pad-Mount Transformer 3633 PCB Release
Project Manager:	Richard Palmer
Contact Information:	(808) 586-4249 2385 Waimano Home Rd, Pearl City, HI 96782
Facility ID:	570
Location Description:	1159 Makawao Ave
Is Public:	True
Update On:	12/10/2020
Latitude:	20.8537
Longitude:	-156.311
Aliases:	MECO Pad-Mount Transformer No. 3633
Status Name:	NFA

4
NNE
1/2-1
0.540 mi.
2852 ft.

MAKAWAO STATION HOSPITAL **FUDS 1024902029**
N/A
MAKAWAO, HI

Relative:
Lower

Actual:
1461 ft.

FUDS:

EPA Region:	09
Installation ID:	HI99799F394400
Congressional District Number:	2
Name:	MAKAWAO STATION HOSPITAL
FUDS Number:	H09HI0206
City:	MAKAWAO
State:	HI
County:	MAUI
Object ID:	4040
USACE Division:	POD
USACE District:	Honolulu District (POH)
Status:	Properties without projects
Current Owner:	STATE: STATE STATE OF HAWAII, DEPARTMENT OF EDUCATION
EMS Map Link:	https://fudsportal.usace.army.mil/ems/inventory/map?id=55755
Eligibility:	Eligible
Has Projects:	No
NPL Status:	Not reported
Project Required:	No
Feature Description:	The Army converted 3 existing school buildings into a mess hall, morgue, and nurses quarters. A large red cross was placed on the rook of one building. Site was also known as the 22nd hospital, 8th statsion hospital, and Makawao School. The site was returned to Territory of Hawaii shortly before the Japanese surrender. Site is still a school. One building containing the morgue was demo lished. A site visit on May 1, 1992 did not reveal any environmental hazards.

MAKAWAO STATION HOSPITAL (Continued) **1024902029**

Latitude: 20.85972222
Longitude: -156.31722222

A5 **MAKAWAO ELEMENTARY SCHOOL** **SHWS** **S121405971**
NE **3542 BALDWIN AVENUE** **N/A**
1/2-1 **MAKAWAO, HI 96768**
0.563 mi.
2974 ft. **Site 1 of 2 in cluster A**

Relative:
Higher

Actual:
1572 ft.

SHWS:

Name:	FUDS MAKAWAO STATION HOSPITAL
Address:	3542 BALDWIN AVE
City,State,Zip:	MAKAWAO, HI 96768
Supplemental Location:	H09HI020600
Island:	Maui
Environmental Interest:	FUDS Makawao Station Hospital
HID Number:	Not reported
Facility Registry Identifier:	Not reported
Lead Agency:	HEER Office
Program:	DOD-IRP
Project Manager:	Not reported
Hazard Priority:	Low
Potential Hazards And Controls:	Hazard Undetermined
Island:	Maui
SDAR Environmental Interest Name:	FUDS Makawao Station Hospital
HID Number:	Not reported
Facility Registry Identifier:	Not reported
Lead Agency:	HEER Office
Potential Hazard And Controls:	Hazard Undetermined
Priority:	Low
Assessment:	Assessment Ongoing
Response:	Not reported
Nature of Contamination:	Not reported
Nature of Residual Contamination:	Not reported
Use Restrictions:	Undetermined
Engineering Control:	Not reported
Description of Restrictions:	Not reported
Institutional Control:	Not reported
Within Designated Areawide Contamination:	Not reported
Site Closure Type:	Not reported
Document Date:	Not reported
Document Number:	Not reported
Document Subject:	Not reported
Project Manager:	Not reported
Contact Information:	(808) 586-4249 2385 Waimano Home Rd, Pearl City, HI 96782
Facility ID:	1927
Location Description:	3542 Baldwin Ave
Is Public:	True
Update On:	04/28/2022
Latitude:	20.85665
Longitude:	-156.313692
Aliases:	22nd Station Hospital, 8th Station Hospital, FUDS No. H09HI020600, Makawao School
Status Name:	Assessment
Name:	MAKAWAO ELEMENTARY SCHOOL
Address:	3542 BALDWIN AVENUE
City,State,Zip:	MAKAWAO, HI 96768

MAKAWAO ELEMENTARY SCHOOL (Continued) **S121405971**

Supplemental Location:	Not reported
Island:	Maui
Environmental Interest:	Not reported
HID Number:	Not reported
Facility Registry Identifier:	Not reported
Lead Agency:	HEER Office
Program:	PA/SI
Project Manager:	Not reported
Hazard Priority:	Not reported
Potential Hazards And Controls:	Not reported
Island:	Maui
SDAR Environmental Interest Name:	Not reported
HID Number:	Not reported
Facility Registry Identifier:	Not reported
Lead Agency:	HEER Office
Potential Hazard And Controls:	Not reported
Priority:	Not reported
Assessment:	Not reported
Response:	Not reported
Nature of Contamination:	Not reported
Nature of Residual Contamination:	Not reported
Use Restrictions:	Not reported
Engineering Control:	Not reported
Description of Restrictions:	Not reported
Institutional Control:	Not reported
Within Designated Areawide Contamination:	Not reported
Site Closure Type:	Not reported
Document Date:	Not reported
Document Number:	Not reported
Document Subject:	Not reported
Project Manager:	Not reported
Contact Information:	Not reported
Facility ID:	3197
Location Description:	3542 Baldwin Avenue
Is Public:	True
Update On:	10/21/2022
Latitude:	20.856717
Longitude:	-156.313881
Aliases:	Not reported
Status Name:	Site Discovery

A6 **MECO POLE-MOUNT TRANSFORMER NO. 6259** **SHWS** **S126282974**
NE **BALDWIN AVE** **N/A**
1/2-1 **MAKAWAO, HI 96768**
0.584 mi.
3083 ft. **Site 2 of 2 in cluster A**

Relative:
Higher

Actual:
1566 ft.

SHWS:

Name:	MECO POLE-MOUNT TRANSFORMER NO. 6259
Address:	BALDWIN AVE
City,State,Zip:	MAKAWAO, HI 96768
Supplemental Location:	Not reported
Island:	Maui
Environmental Interest:	Not reported
HID Number:	Not reported
Facility Registry Identifier:	Not reported
Lead Agency:	HEER Office
Program:	State

MECO POLE-MOUNT TRANSFORMER NO. 6259 (Continued) **S126282974**

Project Manager:	Not reported
Hazard Priority:	Not reported
Potential Hazards And Controls:	Not reported
Island:	Maui
SDAR Environmental Interest Name:	Not reported
HID Number:	Not reported
Facility Registry Identifier:	Not reported
Lead Agency:	HEER Office
Potential Hazard And Controls:	Not reported
Priority:	Not reported
Assessment:	Not reported
Response:	Not reported
Nature of Contamination:	Not reported
Nature of Residual Contamination:	Not reported
Use Restrictions:	Not reported
Engineering Control:	Not reported
Description of Restrictions:	Not reported
Institutional Control:	Not reported
Within Designated Areawide Contamination:	Not reported
Site Closure Type:	Not reported
Document Date:	Not reported
Document Number:	Not reported
Document Subject:	Not reported
Project Manager:	Not reported
Contact Information:	Not reported
Facility ID:	2485
Location Description:	Baldwin Ave
Is Public:	True
Update On:	02/14/2020
Latitude:	20.857818
Longitude:	-156.312967
Aliases:	MECO Pole Mount Transformer 6259
Status Name:	NFA

Count: 0 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)

NO SITES FOUND

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

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

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

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: 06/22/2023
Date Data Arrived at EDR: 07/06/2023
Date Made Active in Reports: 07/24/2023
Number of Days to Update: 18
Source: EPA
Telephone: N/A
Last EDR Contact: 08/02/2023
Next Scheduled EDR Contact: 10/09/2023
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: 06/22/2023
Date Data Arrived at EDR: 07/06/2023
Date Made Active in Reports: 07/24/2023
Number of Days to Update: 18
Source: EPA
Telephone: N/A
Last EDR Contact: 08/02/2023
Next Scheduled EDR Contact: 10/09/2023
Data Release Frequency: Quarterly

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56
Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Lists of Federal Delisted NPL sites

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: 06/22/2023
Date Data Arrived at EDR: 07/06/2023
Date Made Active in Reports: 07/24/2023
Number of Days to Update: 18
Source: EPA
Telephone: N/A
Last EDR Contact: 08/02/2023
Next Scheduled EDR Contact: 10/09/2023
Data Release Frequency: Quarterly

Lists of Federal sites subject to CERCLA removals and CERCLA orders

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

Date of Government Version: 03/26/2023
Date Data Arrived at EDR: 03/28/2023
Date Made Active in Reports: 05/30/2023
Number of Days to Update: 63
Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 06/23/2023
Next Scheduled EDR Contact: 10/09/2023
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System
SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list 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). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 06/22/2023
Date Data Arrived at EDR: 07/06/2023
Date Made Active in Reports: 07/24/2023
Number of Days to Update: 18
Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 08/02/2023
Next Scheduled EDR Contact: 10/23/2023
Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS 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 the 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. The 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 potential NPL site.

Date of Government Version: 06/22/2023
Date Data Arrived at EDR: 07/06/2023
Date Made Active in Reports: 07/24/2023
Number of Days to Update: 18

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 08/02/2023
Next Scheduled EDR Contact: 10/23/2023
Data Release Frequency: Quarterly

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report
CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/06/2023
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 03/20/2023
Number of Days to Update: 11

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 07/31/2023
Next Scheduled EDR Contact: 10/02/2023
Data Release Frequency: Quarterly

Lists of Federal RCRA TSD facilities

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

Date of Government Version: 03/06/2023
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 03/20/2023
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 07/31/2023
Next Scheduled EDR Contact: 10/02/2023
Data Release Frequency: Quarterly

Lists of Federal RCRA generators

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

Date of Government Version: 03/06/2023
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 03/20/2023
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 07/31/2023
Next Scheduled EDR Contact: 10/02/2023
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

Date of Government Version: 03/06/2023
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 03/20/2023
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 07/31/2023
Next Scheduled EDR Contact: 10/02/2023
Data Release Frequency: Quarterly

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

Date of Government Version: 03/06/2023
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 03/20/2023
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 07/31/2023
Next Scheduled EDR Contact: 10/02/2023
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

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: 05/25/2023
Date Data Arrived at EDR: 05/31/2023
Date Made Active in Reports: 07/24/2023
Number of Days to Update: 54

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 08/02/2023
Next Scheduled EDR Contact: 11/20/2023
Data Release Frequency: Varies

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: 05/22/2023
Date Data Arrived at EDR: 05/23/2023
Date Made Active in Reports: 07/24/2023
Number of Days to Update: 62

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/23/2023
Next Scheduled EDR Contact: 09/04/2023
Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List
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: 05/22/2023
Date Data Arrived at EDR: 05/23/2023
Date Made Active in Reports: 07/24/2023
Number of Days to Update: 62

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/23/2023
Next Scheduled EDR Contact: 09/04/2023
Data Release Frequency: Varies

Federal ERNS list

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

Date of Government Version: 03/20/2023
Date Data Arrived at EDR: 03/21/2023
Date Made Active in Reports: 05/30/2023
Number of Days to Update: 70
Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 06/20/2023
Next Scheduled EDR Contact: 10/02/2023
Data Release Frequency: Quarterly

Lists of state- and tribal hazardous waste facilities

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: 11/22/2022
Date Data Arrived at EDR: 03/07/2023
Date Made Active in Reports: 05/24/2023
Number of Days to Update: 78
Source: Department of Health
Telephone: 808-586-4249
Last EDR Contact: 06/08/2023
Next Scheduled EDR Contact: 09/18/2023
Data Release Frequency: Semi-Annually

Lists of state and tribal landfills and solid waste disposal facilities

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: 03/22/2023
Date Data Arrived at EDR: 03/29/2023
Date Made Active in Reports: 06/13/2023
Number of Days to Update: 76
Source: Department of Health
Telephone: 808-586-4245
Last EDR Contact: 06/27/2023
Next Scheduled EDR Contact: 10/02/2023
Data Release Frequency: Varies

Lists of state and tribal leaking storage tanks

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: 02/21/2023
Date Data Arrived at EDR: 03/01/2023
Date Made Active in Reports: 05/19/2023
Number of Days to Update: 79
Source: Department of Health
Telephone: 808-586-4228
Last EDR Contact: 11/22/2023
Next Scheduled EDR Contact: 09/04/2023
Data Release Frequency: Semi-Annually

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/26/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 07/17/2023
Next Scheduled EDR Contact: 10/30/2023
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/14/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 07/17/2023
Next Scheduled EDR Contact: 10/30/2023
Data Release Frequency: Varies

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

Date of Government Version: 04/19/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 07/17/2023
Next Scheduled EDR Contact: 10/30/2023
Data Release Frequency: Varies

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: 04/19/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 07/17/2023
Next Scheduled EDR Contact: 10/30/2023
Data Release Frequency: Varies

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

Date of Government Version: 04/25/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/17/2023
Next Scheduled EDR Contact: 10/30/2023
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/20/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/17/2023
Next Scheduled EDR Contact: 10/30/2023
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/20/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 07/17/2023
Next Scheduled EDR Contact: 10/30/2023
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 04/20/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 05/09/2023
Next Scheduled EDR Contact: 10/30/2023
Data Release Frequency: Varies

Lists of state and tribal registered storage tanks

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

Date of Government Version: 03/08/2023
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 05/30/2023
Number of Days to Update: 82
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 06/27/2023
Next Scheduled EDR Contact: 10/16/2023
Data Release Frequency: Varies

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

Date of Government Version: 02/21/2023
Date Data Arrived at EDR: 03/01/2023
Date Made Active in Reports: 05/19/2023
Number of Days to Update: 79
Source: Department of Health
Telephone: 808-586-4228
Last EDR Contact: 05/25/2023
Next Scheduled EDR Contact: 09/04/2023
Data Release Frequency: Semi-Annually

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/26/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66
Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 07/17/2023
Next Scheduled EDR Contact: 10/30/2023
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/20/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/17/2023
Next Scheduled EDR Contact: 10/30/2023
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 04/20/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66
Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 07/17/2023
Next Scheduled EDR Contact: 10/30/2023
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/19/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66
Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 07/17/2023
Next Scheduled EDR Contact: 10/30/2023
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 04/20/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66
Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 07/17/2023
Next Scheduled EDR Contact: 10/30/2023
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/25/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/17/2023
Next Scheduled EDR Contact: 10/30/2023
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/20/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66
Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 07/17/2023
Next Scheduled EDR Contact: 10/30/2023
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/14/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66
Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 07/17/2023
Next Scheduled EDR Contact: 10/30/2023
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

ENG CONTROLS: Engineering Control Sites
A listing of sites with engineering controls in place.

Date of Government Version: 04/17/2019
Date Data Arrived at EDR: 05/21/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 9
Source: Department of Health
Telephone: 404-586-4249
Last EDR Contact: 06/08/2023
Next Scheduled EDR Contact: 09/18/2023
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: 04/17/2019
Date Data Arrived at EDR: 05/21/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 9
Source: Department of Health
Telephone: 808-586-4249
Last EDR Contact: 06/08/2023
Next Scheduled EDR Contact: 09/18/2023
Data Release Frequency: Varies

Lists of state and tribal voluntary cleanup sites

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: 11/22/2022
Date Data Arrived at EDR: 03/07/2023
Date Made Active in Reports: 05/24/2023
Number of Days to Update: 78
Source: Department of Health
Telephone: 808-586-4249
Last EDR Contact: 06/08/2023
Next Scheduled EDR Contact: 09/18/2023
Data Release Frequency: Varies

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

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142
Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 06/13/2023
Next Scheduled EDR Contact: 10/02/2023
Data Release Frequency: Varies

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

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27
Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 07/08/2021
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

Lists of state and tribal brownfield sites

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

Date of Government Version: 11/22/2022
Date Data Arrived at EDR: 03/07/2023
Date Made Active in Reports: 05/24/2023
Number of Days to Update: 78
Source: Department of Health
Telephone: 808-586-4249
Last EDR Contact: 06/08/2023
Next Scheduled EDR Contact: 09/18/2023
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are 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. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 04/06/2023
Date Data Arrived at EDR: 04/13/2023
Date Made Active in Reports: 04/19/2023
Number of Days to Update: 6
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/08/2023
Next Scheduled EDR Contact: 09/25/2023
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: Solid Waste Recycling Information
A listing of recycling and drop-off facilities located in Hawaii.

Date of Government Version: 09/14/2022
Date Data Arrived at EDR: 09/28/2022
Date Made Active in Reports: 10/05/2022
Number of Days to Update: 7
Source: Department of Health
Telephone: 808-586-4226
Last EDR Contact: 07/31/2023
Next Scheduled EDR Contact: 10/02/2023
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52
Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 07/19/2023
Next Scheduled EDR Contact: 11/06/2023
Data Release Frequency: Varies

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

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137
Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 07/11/2023
Next Scheduled EDR Contact: 10/30/2023
Data Release Frequency: No Update Planned

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

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176
Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 07/27/2023
Next Scheduled EDR Contact: 11/13/2023
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 05/22/2023
Date Data Arrived at EDR: 05/23/2023
Date Made Active in Reports: 07/10/2023
Number of Days to Update: 48
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/23/2023
Next Scheduled EDR Contact: 09/04/2023
Data Release Frequency: No Update Planned

CDL: Clandestine Drug Lab Listing
A listing of clandestine drug lab site locations.

Date of Government Version: 08/04/2010
Date Data Arrived at EDR: 09/10/2010
Date Made Active in Reports: 10/22/2010
Number of Days to Update: 42
Source: Department of Health
Telephone: 808-586-4249
Last EDR Contact: 05/31/2023
Next Scheduled EDR Contact: 09/18/2023
Data Release Frequency: No Update Planned

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

Date of Government Version: 05/22/2023
Date Data Arrived at EDR: 05/23/2023
Date Made Active in Reports: 07/10/2023
Number of Days to Update: 48
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/23/2023
Next Scheduled EDR Contact: 09/04/2023
Data Release Frequency: Quarterly

Local Land Records

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 06/22/2023
Date Data Arrived at EDR: 07/06/2023
Date Made Active in Reports: 07/24/2023
Number of Days to Update: 18
Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 08/02/2023
Next Scheduled EDR Contact: 10/09/2023
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

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

Date of Government Version: 03/19/2023
Date Data Arrived at EDR: 03/21/2023
Date Made Active in Reports: 05/30/2023
Number of Days to Update: 70
Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 06/20/2023
Next Scheduled EDR Contact: 10/02/2023
Data Release Frequency: Quarterly

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: 05/30/2023
Date Data Arrived at EDR: 05/31/2023
Date Made Active in Reports: 07/12/2023
Number of Days to Update: 42
Source: Department of Health
Telephone: 808-586-4249
Last EDR Contact: 07/13/2023
Next Scheduled EDR Contact: 08/28/2023
Data Release Frequency: Varies

SPILLS 90: SPILLS90 data from FirstSearch
Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 03/10/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/11/2013
Number of Days to Update: 39
Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/06/2023
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 03/20/2023
Number of Days to Update: 11
Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 07/31/2023
Next Scheduled EDR Contact: 10/02/2023
Data Release Frequency: Quarterly

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: 05/08/2023
Date Data Arrived at EDR: 05/16/2023
Date Made Active in Reports: 07/10/2023
Number of Days to Update: 55
Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 05/16/2023
Next Scheduled EDR Contact: 08/28/2023
Data Release Frequency: Varies

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

Date of Government Version: 06/07/2021
Date Data Arrived at EDR: 07/13/2021
Date Made Active in Reports: 03/09/2022
Number of Days to Update: 239
Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/10/2023
Next Scheduled EDR Contact: 10/23/2023
Data Release Frequency: Varies

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

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574
Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 07/05/2023
Next Scheduled EDR Contact: 10/16/2023
Data Release Frequency: N/A

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

Date of Government Version: 07/30/2021
Date Data Arrived at EDR: 02/03/2023
Date Made Active in Reports: 02/10/2023
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 08/01/2023
Next Scheduled EDR Contact: 11/20/2023
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/13/2023
Date Data Arrived at EDR: 03/21/2023
Date Made Active in Reports: 05/30/2023
Number of Days to Update: 70

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 06/20/2023
Next Scheduled EDR Contact: 10/02/2023
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 07/31/2023
Next Scheduled EDR Contact: 11/13/2023
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 08/03/2023
Next Scheduled EDR Contact: 11/13/2023
Data Release Frequency: Varies

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: 12/31/2020
Date Data Arrived at EDR: 06/14/2022
Date Made Active in Reports: 03/24/2023
Number of Days to Update: 283

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/16/2023
Next Scheduled EDR Contact: 09/25/2023
Data Release Frequency: Every 4 Years

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: 12/31/2021
Date Data Arrived at EDR: 02/16/2023
Date Made Active in Reports: 05/02/2023
Number of Days to Update: 75

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/19/2023
Next Scheduled EDR Contact: 08/28/2023
Data Release Frequency: Annually

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: 04/17/2023
Date Data Arrived at EDR: 04/18/2023
Date Made Active in Reports: 07/10/2023
Number of Days to Update: 83

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/18/2023
Next Scheduled EDR Contact: 10/30/2023
Data Release Frequency: Annually

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: 06/22/2023
Date Data Arrived at EDR: 07/06/2023
Date Made Active in Reports: 07/24/2023
Number of Days to Update: 18

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 08/02/2023
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/27/2022
Date Data Arrived at EDR: 05/04/2022
Date Made Active in Reports: 05/10/2022
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 06/12/2023
Next Scheduled EDR Contact: 10/30/2023
Data Release Frequency: Varies

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
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 06/22/2023
Date Data Arrived at EDR: 07/06/2023
Date Made Active in Reports: 07/24/2023
Number of Days to Update: 18

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 08/02/2023
Next Scheduled EDR Contact: 11/13/2023
Data Release Frequency: Quarterly

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

Date of Government Version: 03/20/2023
Date Data Arrived at EDR: 04/04/2023
Date Made Active in Reports: 06/09/2023
Number of Days to Update: 66

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 07/07/2023
Next Scheduled EDR Contact: 10/16/2023
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: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 06/27/2023
Next Scheduled EDR Contact: 10/16/2023
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

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

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

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

Date of Government Version: 03/15/2023
Date Data Arrived at EDR: 03/21/2023
Date Made Active in Reports: 05/30/2023
Number of Days to Update: 70

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 07/12/2023
Next Scheduled EDR Contact: 10/30/2023
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 04/14/2023
Date Made Active in Reports: 07/10/2023
Number of Days to Update: 87

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 05/25/2023
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 05/25/2023
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 08/03/2023
Next Scheduled EDR Contact: 11/13/2023
Data Release Frequency: Varies

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

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 06/22/2023
Next Scheduled EDR Contact: 10/09/2023
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
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

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

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

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

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 07/25/2023
Next Scheduled EDR Contact: 11/06/2023
Data Release Frequency: Quarterly

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: 03/31/2023
Date Data Arrived at EDR: 04/20/2023
Date Made Active in Reports: 07/10/2023
Number of Days to Update: 81

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 06/27/2023
Next Scheduled EDR Contact: 10/16/2023
Data Release Frequency: Varies

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: 12/31/2021
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 03/20/2023
Number of Days to Update: 11

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 07/31/2023
Next Scheduled EDR Contact: 10/02/2023
Data Release Frequency: Biennially

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: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/05/2023
Next Scheduled EDR Contact: 10/16/2023
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program
DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 03/03/2023
Date Data Arrived at EDR: 03/03/2023
Date Made Active in Reports: 06/09/2023
Number of Days to Update: 98

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 07/26/2023
Next Scheduled EDR Contact: 11/13/2023
Data Release Frequency: Varies

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/24/2023
Next Scheduled EDR Contact: 08/28/2023
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites
A listing of former lead smelter site locations.

Date of Government Version: 06/22/2023
Date Data Arrived at EDR: 07/06/2023
Date Made Active in Reports: 07/24/2023
Number of Days to Update: 18

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 08/02/2023
Next Scheduled EDR Contact: 10/09/2023
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites
A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)
The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US 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: 05/01/2023
Date Data Arrived at EDR: 05/24/2023
Date Made Active in Reports: 07/24/2023
Number of Days to Update: 61

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 05/24/2023
Next Scheduled EDR Contact: 09/04/2023
Data Release Frequency: Semi-Annually

MINES VIOLATIONS: MSHA Violation Assessment Data
Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 04/03/2023
Date Data Arrived at EDR: 04/04/2023
Date Made Active in Reports: 06/09/2023
Number of Days to Update: 66

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 07/05/2023
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Quarterly

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 01/07/2022
Date Data Arrived at EDR: 02/24/2023
Date Made Active in Reports: 05/17/2023
Number of Days to Update: 82

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/25/2023
Next Scheduled EDR Contact: 09/04/2023
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/25/2023
Next Scheduled EDR Contact: 09/04/2023
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/17/2023
Date Data Arrived at EDR: 03/17/2023
Date Made Active in Reports: 05/30/2023
Number of Days to Update: 74

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 06/13/2023
Next Scheduled EDR Contact: 09/18/2023
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

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

Date of Government Version: 05/04/2023
Date Data Arrived at EDR: 05/25/2023
Date Made Active in Reports: 07/24/2023
Number of Days to Update: 60

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 05/25/2023
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 05/17/2023
Next Scheduled EDR Contact: 09/04/2023
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 11/09/2021
Date Data Arrived at EDR: 10/20/2022
Date Made Active in Reports: 01/10/2023
Number of Days to Update: 82

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 07/06/2023
Next Scheduled EDR Contact: 10/23/2023
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 03/25/2023
Date Data Arrived at EDR: 03/31/2023
Date Made Active in Reports: 06/09/2023
Number of Days to Update: 70

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 06/29/2023
Next Scheduled EDR Contact: 10/16/2023
Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 05/15/2023
Date Data Arrived at EDR: 05/17/2023
Date Made Active in Reports: 07/10/2023
Number of Days to Update: 54

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 05/17/2023
Next Scheduled EDR Contact: 08/28/2023
Data Release Frequency: Quarterly

PFAS NPL: Superfund Sites with PFAS Detections Information

EPA's Office of Land and Emergency Management and EPA Regional Offices maintain data describing what is known about site investigations, contamination, and remedial actions under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) where PFAS is present in the environment.

Date of Government Version: 06/07/2023
Date Data Arrived at EDR: 06/08/2023
Date Made Active in Reports: 06/09/2023
Number of Days to Update: 1

Source: Environmental Protection Agency
Telephone: 703-603-8895
Last EDR Contact: 07/05/2023
Next Scheduled EDR Contact: 10/16/2023
Data Release Frequency: Varies

PFAS FEDERAL SITES: Federal Sites PFAS Information

Several federal entities, such as the federal Superfund program, Department of Defense, National Aeronautics and Space Administration, Department of Transportation, and Department of Energy provided information for sites with known or suspected detections at federal facilities.

Date of Government Version: 03/30/2023
Date Data Arrived at EDR: 03/30/2023
Date Made Active in Reports: 04/07/2023
Number of Days to Update: 8

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/05/2023
Next Scheduled EDR Contact: 10/16/2023
Data Release Frequency: Varies

PFAS TSCA: PFAS Manufacture and Imports Information

EPA issued the Chemical Data Reporting (CDR) Rule under the Toxic Substances Control Act (TSCA) and requires chemical manufacturers and facilities that manufacture or import chemical substances to report data to EPA. EPA publishes non-confidential business information (non-CBI) and includes descriptive information about each site, corporate parent, production volume, other manufacturing information, and processing and use information.

Date of Government Version: 03/30/2023
Date Data Arrived at EDR: 03/30/2023
Date Made Active in Reports: 06/09/2023
Number of Days to Update: 71

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/05/2023
Next Scheduled EDR Contact: 10/16/2023
Data Release Frequency: Varies

PFAS RCRA MANIFEST: PFAS Transfers Identified In the RCRA Database Listing

To work around the lack of PFAS waste codes in the RCRA database, EPA developed the PFAS Transfers dataset by mining e-Manifest records containing at least one of these common PFAS keywords: PFAS, PFOA, PFOS, PERFL, AFFF, GENX, GEN-X (plus the VT waste codes). These keywords were searched for in the following text fields: Manifest handling instructions (MANIFEST_HANDLING_INSTR), Non-hazardous waste description (NON_HAZ_WASTE_DESCRIPTION), DOT printed information (DOT_PRINTED_INFORMATION), Waste line handling instructions (WASTE_LINE_HANDLING_INSTR), Waste residue comments (WASTE_RESIDUE_COMMENTS).

Date of Government Version: 03/30/2023
Date Data Arrived at EDR: 03/30/2023
Date Made Active in Reports: 05/02/2023
Number of Days to Update: 33

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/05/2023
Next Scheduled EDR Contact: 10/16/2023
Data Release Frequency: Varies

PFAS ATSDR: PFAS Contamination Site Location Listing

PFAS contamination site locations from the Department of Health & Human Services, Center for Disease Control & Prevention. ATSDR is involved at a number of PFAS-related sites, either directly or through assisting state and federal partners. As of now, most sites are related to drinking water contamination connected with PFAS production facilities or fire training areas where aqueous film-forming firefighting foam (AFFF) was regularly used.

Date of Government Version: 06/24/2020
Date Data Arrived at EDR: 03/17/2021
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 601

Source: Department of Health & Human Services
Telephone: 202-741-5770
Last EDR Contact: 07/19/2023
Next Scheduled EDR Contact: 11/06/2023
Data Release Frequency: Varies

PFAS WQP: Ambient Environmental Sampling for PFAS

The Water Quality Portal (WQP) is a part of a modernized repository storing ambient sampling data for all environmental media and tissue samples. A wide range of federal, state, tribal and local governments, academic and non-governmental organizations and individuals submit project details and sampling results to this public repository. The information is commonly used for research and assessments of environmental quality.

Date of Government Version: 03/30/2023
Date Data Arrived at EDR: 03/30/2023
Date Made Active in Reports: 05/02/2023
Number of Days to Update: 33

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/05/2023
Next Scheduled EDR Contact: 10/16/2023
Data Release Frequency: Varies

PFAS NPDES: Clean Water Act Discharge Monitoring Information

Any discharger of pollutants to waters of the United States from a point source must have a National Pollutant Discharge Elimination System (NPDES) permit. The process for obtaining limits involves the regulated entity (permittee) disclosing releases in a NPDES permit application and the permitting authority (typically the state but sometimes EPA) deciding whether to require monitoring or monitoring with limits. Caveats and Limitations: Less than half of states have required PFAS monitoring for at least one of their permittees and fewer states have established PFAS effluent limits for permittees. New rulemakings have been initiated that may increase the number of facilities monitoring for PFAS in the future.

Date of Government Version: 03/30/2023
Date Data Arrived at EDR: 03/30/2023
Date Made Active in Reports: 04/07/2023
Number of Days to Update: 8

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/05/2023
Next Scheduled EDR Contact: 10/16/2023
Data Release Frequency: Varies

PFAS ECHO: Facilities in Industries that May Be Handling PFAS Listing

Regulators and the public have expressed interest in knowing which regulated entities may be using PFAS. EPA has developed a dataset from various sources that show which industries may be handling PFAS. Approximately 120,000 facilities subject to federal environmental programs have operated or currently operate in industry sectors with processes that may involve handling and/or release of PFAS.

Date of Government Version: 03/30/2023
Date Data Arrived at EDR: 03/30/2023
Date Made Active in Reports: 04/03/2023
Number of Days to Update: 4

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/05/2023
Next Scheduled EDR Contact: 10/16/2023
Data Release Frequency: Varies

PFAS ECHO FIRE TRAINING: Facilities in Industries that May Be Handling PFAS Listing

A list of fire training sites was added to the Industry Sectors dataset using a keyword search on the permitted facilitys name to identify sites where fire-fighting foam may have been used in training exercises. Additionally, you may view an example spreadsheet of the subset of fire training facility data, as well as the keywords used in selecting or deselecting a facility for the subset. as well as the keywords used in selecting or deselecting a facility for the subset. These keywords were tested to maximize accuracy in selecting facilities that may use fire-fighting foam in training exercises, however, due to the lack of a required reporting field in the data systems for designating fire training sites, this methodology may not identify all fire training sites or may potentially misidentify them.

Date of Government Version: 03/30/2023
Date Data Arrived at EDR: 03/30/2023
Date Made Active in Reports: 04/03/2023
Number of Days to Update: 4

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/05/2023
Next Scheduled EDR Contact: 10/16/2023
Data Release Frequency: Varies

PFAS PART 139 AIRPORT: All Certified Part 139 Airports PFAS Information Listing

Since July 1, 2006, all certified part 139 airports are required to have fire-fighting foam onsite that meet military specifications (MIL-F-24385) (14 CFR 139.317). To date, these military specification fire-fighting foams are fluorinated and have been historically used for training and extinguishing. The 2018 FAA Reauthorization Act has a provision stating that no later than October 2021, FAA shall not require the use of fluorinated AFFF. This provision does not prohibit the use of fluorinated AFFF at Part 139 civilian airports; it only prohibits FAA from mandating its use. The Federal Aviation Administration?s document AC 150/5210-6D - Aircraft Fire Extinguishing Agents provides guidance on Aircraft Fire Extinguishing Agents, which includes Aqueous Film Forming Foam (AFFF).

Date of Government Version: 03/30/2023
Date Data Arrived at EDR: 03/30/2023
Date Made Active in Reports: 04/03/2023
Number of Days to Update: 4

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/05/2023
Next Scheduled EDR Contact: 10/16/2023
Data Release Frequency: Varies

AQUEOUS FOAM NRC: Aqueous Foam Related Incidents Listing

The National Response Center (NRC) serves as an emergency call center that fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. The spreadsheets posted to the NRC website contain initial incident data that has not been validated or investigated by a federal/state response agency. Response center calls from 1990 to the most recent complete calendar year where there was indication of Aqueous Film Forming Foam (AFFF) usage are included in this dataset. NRC calls may reference AFFF usage in the ?Material Involved? or ?Incident Description? fields.

Date of Government Version: 04/27/2023
Date Data Arrived at EDR: 04/27/2023
Date Made Active in Reports: 05/02/2023
Number of Days to Update: 5

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/06/2023
Next Scheduled EDR Contact: 10/16/2023
Data Release Frequency: Varies

PFAS: PFAS Contamination Site Listing

A listing of sites where "Potential PFAS" were found. The listing includes sites with "PFAs" and "fluoro", and site names that include "firefight", fire fight", "fire train".

Date of Government Version: 02/25/2022
Date Data Arrived at EDR: 02/28/2022
Date Made Active in Reports: 03/10/2022
Number of Days to Update: 10

Source: Department of Health
Telephone: 808-586-4249
Last EDR Contact: 06/21/2023
Next Scheduled EDR Contact: 09/18/2023
Data Release Frequency: Varies

AIRS: List of Permitted Facilities
A listing of permitted facilities in the state.

Date of Government Version: 06/28/2022
Date Data Arrived at EDR: 06/30/2022
Date Made Active in Reports: 09/14/2022
Number of Days to Update: 76

Source: Department of Health
Telephone: 808-586-4200
Last EDR Contact: 08/02/2023
Next Scheduled EDR Contact: 10/09/2023
Data Release Frequency: Varies

DRYCLEANERS: Permitted Drycleaner Facility Listing
A listing of permitted drycleaner facilities in the state.

Date of Government Version: 01/23/2023
Date Data Arrived at EDR: 02/23/2023
Date Made Active in Reports: 05/12/2023
Number of Days to Update: 78

Source: Department of Health
Telephone: 808-586-4200
Last EDR Contact: 08/02/2023
Next Scheduled EDR Contact: 10/09/2023
Data Release Frequency: Varies

Financial Assurance: Financial Assurance Information Listing
A listing of financial assurance information for underground storage tank facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 03/30/2023
Date Data Arrived at EDR: 04/04/2023
Date Made Active in Reports: 06/14/2023
Number of Days to Update: 71

Source: Department of Health
Telephone: 808-586-4226
Last EDR Contact: 05/31/2023
Next Scheduled EDR Contact: 09/18/2023
Data Release Frequency: Varies

LEAD: Lead Inspection Listing
Lead inspections

Date of Government Version: 03/07/2023
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 05/24/2023
Number of Days to Update: 76

Source: Department of Health
Telephone: 808-586-5800
Last EDR Contact: 05/31/2023
Next Scheduled EDR Contact: 09/18/2023
Data Release Frequency: Varies

UIC: Underground Injection Wells Listing
A listing of underground injection well locations.

Date of Government Version: 02/07/2013
Date Data Arrived at EDR: 02/12/2013
Date Made Active in Reports: 04/09/2013
Number of Days to Update: 56

Source: Department of Health
Telephone: 808-586-4258
Last EDR Contact: 05/17/2023
Next Scheduled EDR Contact: 09/04/2023
Data Release Frequency: Varies

PCS ENF: Enforcement data
No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 06/27/2023
Next Scheduled EDR Contact: 10/16/2023
Data Release Frequency: Varies

MINES MRDS: Mineral Resources Data System
Mineral Resources Data System

Date of Government Version: 08/23/2022
Date Data Arrived at EDR: 11/22/2022
Date Made Active in Reports: 02/28/2023
Number of Days to Update: 98

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 05/25/2023
Next Scheduled EDR Contact: 09/04/2023
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PCS: Permit Compliance System
PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 06/27/2023
Next Scheduled EDR Contact: 10/16/2023
Data Release Frequency: No Update Planned

PFAS TRIS: List of PFAS Added to the TRI
Section 7321 of the National Defense Authorization Act for Fiscal Year 2020 (NDAA) immediately added certain per- and polyfluoroalkyl substances (PFAS) to the list of chemicals covered by the Toxics Release Inventory (TRI) under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) and provided a framework for additional PFAS to be added to TRI on an annual basis.

Date of Government Version: 06/07/2023
Date Data Arrived at EDR: 06/08/2023
Date Made Active in Reports: 06/09/2023
Number of Days to Update: 1

Source: Environmental Protection Agency
Telephone: 202-566-0250
Last EDR Contact: 07/05/2023
Next Scheduled EDR Contact: 10/16/2023
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: 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

EDR Hist Auto: EDR Exclusive Historical Auto Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

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: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

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: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Health in Hawaii.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/08/2014
Number of Days to Update: 191

Source: Department of Health
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Health in Hawaii.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/17/2014
Number of Days to Update: 200

Source: Department of Health
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Health in Hawaii.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/03/2014
Number of Days to Update: 186

Source: Department of Health
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

OTHER DATABASE(S)

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Oil/Gas Pipelines

Source: Endeavor Business Media
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data

Source: Endeavor Business Media
This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

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

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory
Source: Office of Planning
Telephone: 808-587-2895

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

KALAMA INTERMEDIATE SCHOOL
120 MAKANI RD
MAKAWAO, HI 96768

TARGET PROPERTY COORDINATES

Latitude (North):	20.850891 - 20° 51' 3.21''
Longitude (West):	156.320367 - 156° 19' 13.32''
Universal Tranverse Mercator:	Zone 4
UTM X (Meters):	778847.5
UTM Y (Meters):	2307831.2
Elevation:	1542 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	9757719 HAIKU, HI
Version Date:	2017
Northwest Map:	9757761 PAIA, HI
Version Date:	2017

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).

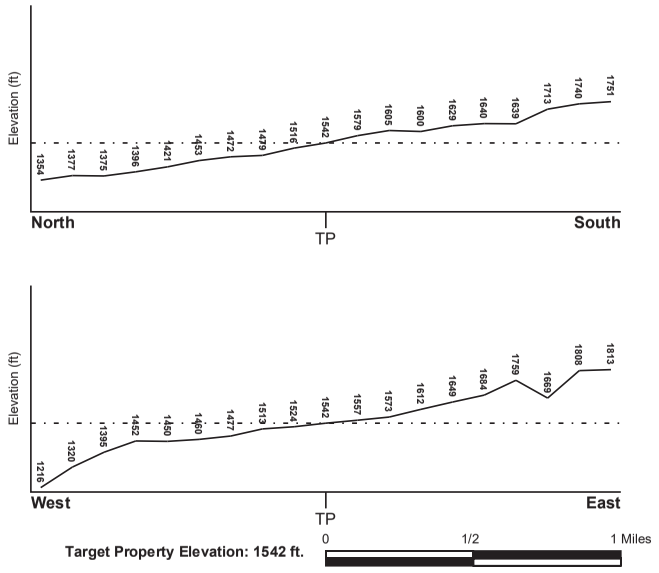
TOPOGRAPHIC INFORMATION

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 NNW

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

Flood Plain Panel at Target Property	FEMA Source Type
1500030440E	FEMA FIRM Flood data
Additional Panels in search area:	**FEMA Source Type**
1500030420E	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

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

HYDROGEOLOGIC INFORMATION

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

AQUIFLOW®

Search Radius: 1.000 Mile.

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

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

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

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

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

ROCK STRATIGRAPHIC UNIT

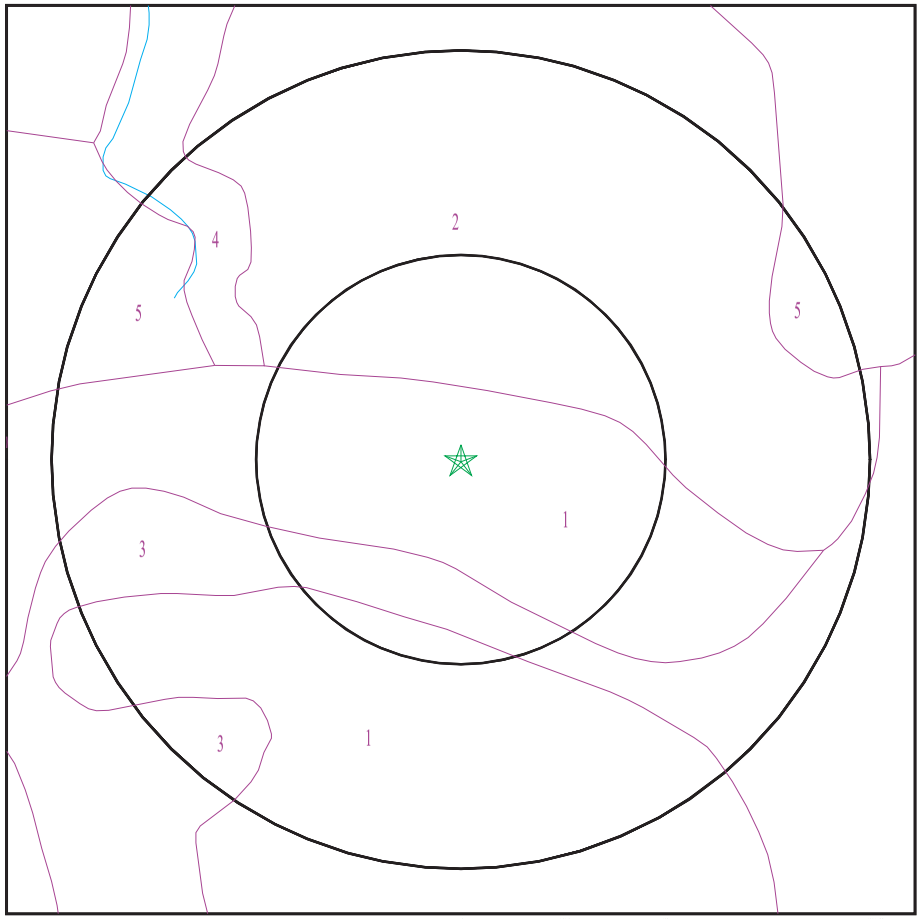
Era: -
System: -
Series: -
Code: N/A *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: -

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

SSURGO SOIL MAP - 7410984.2s



SITE NAME: Kalama Intermediate School	CLIENT: Element Environmental , LLC
ADDRESS: 120 MAKANI RD	CONTACT: Angie Peltier
MAKAWAO HI 96768	INQUIRY #: 7410984.2s
LAT/LONG: 20.850891 / 156.320367	DATE: August 08, 2023 12:02 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: Haliimaile

Soil Surface Texture: silty clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	14 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	ML-K (proposed)	Max: 4.23 Min: 0.42	Max: 6 Min: 5.1
2	14 inches	40 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	ML-K (proposed)	Max: 4.23 Min: 0.42	Max: 6 Min: 5.1
3	40 inches	64 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	ML-K (proposed)	Max: 4.23 Min: 0.42	Max: 6 Min: 5.1

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 2

Soil Component Name: Haliimaile

Soil Surface Texture: silty clay

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	14 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	ML-K (proposed)	Max: 4.23 Min: 0.42	Max: 6 Min: 5.1
2	14 inches	40 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	ML-K (proposed)	Max: 4.23 Min: 0.42	Max: 6 Min: 5.1
3	40 inches	64 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	ML-K (proposed)	Max: 4.23 Min: 0.42	Max: 6 Min: 5.1

Soil Map ID: 3

Soil Component Name: Haliimaile

Soil Surface Texture: silty clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	14 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	ML-K (proposed)	Max: 4.23 Min: 0.42	Max: 6 Min: 5.1
2	14 inches	40 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	ML-K (proposed)	Max: 4.23 Min: 0.42	Max: 6 Min: 5.1
3	40 inches	64 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	ML-K (proposed)	Max: 4.23 Min: 0.42	Max: 6 Min: 5.1

Soil Map ID: 4

Soil Component Name: Rock land

Soil Surface Texture: silty clay loam

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

Soil Drainage Class: Well drained

Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	3 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0.42 Min: 0.02	Max: Min:
2	3 inches	7 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0.42 Min: 0.02	Max: Min:
3	7 inches	20 inches	bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0.42 Min: 0.02	Max: Min:

Soil Map ID: 5

Soil Component Name: Haliimaile

Soil Surface Texture: silty clay

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	14 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	ML-K (proposed)	Max: 4.23 Min: 0.42	Max: 6 Min: 5.1
2	14 inches	40 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	ML-K (proposed)	Max: 4.23 Min: 0.42	Max: 6 Min: 5.1
3	40 inches	64 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	ML-K (proposed)	Max: 4.23 Min: 0.42	Max: 6 Min: 5.1

LOCAL / REGIONAL WATER AGENCY RECORDS

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

WELL SEARCH DISTANCE INFORMATION

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

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

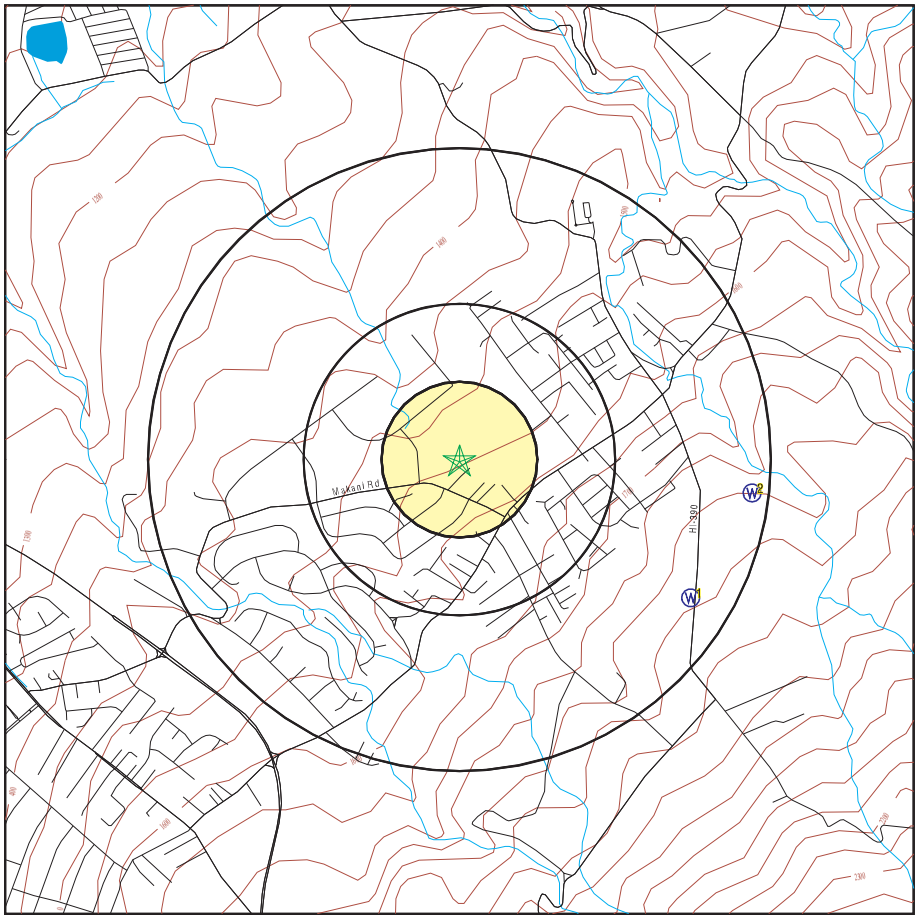
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

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

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	HI1300000003409	1/2 - 1 Mile ESE
2	HI1300000003426	1/2 - 1 Mile East

PHYSICAL SETTING SOURCE MAP - 7410984.2s



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

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

SITE NAME:	Kalama Intermediate School
ADDRESS:	120 MAKANI RD MAKAWAO HI 96768
LAT/LONG:	20.850891 / 156.320367
CLIENT:	Element Environmental , LLC
CONTACT:	Angie Peltier
INQUIRY #:	7410984.2s
DATE:	August 08, 2023 12:02 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
1 **ESE** **1/2 - 1 Mile** **Higher**	**HI WELLS**	**HI1300000003409**

Well #:	6-5018-001	Well Name:	Maluhia
Original Name:	Not Reported	Aquifer Type:	Dike
Year Drilled:	2007	Driller:	Melvin E Lima (deceased)
Well Depth (ft):	1880		
Land Owner:	Thomas Baldwin Nonexempt Trust		
Pump Installer:	Melvin E Lima (deceased)		
Well Construction Type:	Rotary	Casing Diameter (in):	8
Ground Elevation (ft):	1841	Solid Casing Depth (ft):	1820
Perf Casing Depth (ft):	1860		
Major Well Use:	Agriculture-Crops and Processing		
Initial Water Level (ft):	23.5	Water Level After Drilling (ft):	Not Reported
Chloride Content (mg/l):	25	Date Tested:	Not Reported
Test Pump Rate (g/m):	Not Reported	Test Drawdown Rate (ft):	Not Reported
Test Chloride Content (mg/l):	Not Reported	Test Water Temp:	Not Reported
Test Unit:	Not Reported	Pump GPM:	48
Max Chloride Level:	Not Reported	Min Chloride Level:	Not Reported
Pump Installed:	2007	Draft Year:	Not Reported
Hole Bottom Elevation:	-39	Solid Casing Bot Elevation:	21
Perf Casing Bot Elevation:	-19	Pump Capacity (MM gal/day):	.069
Pump Intake Depth (ft):	1843	Latest WCR1 Report:	28-NOV-07
Latest WCR2 Report:	28-NOV-07	Transmissivity:	Not Reported

	Database	EDR ID Number
2 **East** **1/2 - 1 Mile** **Higher**	**HI WELLS**	**HI1300000003426**

Well #:	6-5118-002	Well Name:	Pookela MDWS
Original Name:	Not Reported	Aquifer Type:	Basal
Year Drilled:	2003		
Driller:	Water Resources International, Inc.		
Well Depth (ft):	1950	Land Owner:	County of Maui
Pump Installer:	Beylik / Energetic A JV		
Well Construction Type:	Rotary	Casing Diameter (in):	18
Ground Elevation (ft):	1811	Solid Casing Depth (ft):	1800
Perf Casing Depth (ft):	1950	Major Well Use:	County
Initial Water Level (ft):	11.95	Water Level After Drilling (ft):	Not Reported
Chloride Content (mg/l):	10	Date Tested:	14-DEC-02
Test Pump Rate (g/m):	1400	Test Drawdown Rate (ft):	4.2
Test Chloride Content (mg/l):	10	Test Water Temp:	66.7
Test Unit:	F	Pump GPM:	900
Max Chloride Level:	Not Reported	Min Chloride Level:	Not Reported
Pump Installed:	2006	Draft Year:	Not Reported
Hole Bottom Elevation:	-139	Solid Casing Bot Elevation:	11
Perf Casing Bot Elevation:	-139	Pump Capacity (MM gal/day):	1.296
Pump Intake Depth (ft):	1845	Latest WCR1 Report:	Not Reported
Latest WCR2 Report:	Not Reported	Transmissivity:	159410

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for MAUI County: 3

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

Federal Area Radon Information for Zip Code: 96768

Number of sites tested: 9

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.522 pCi/L	100%	0%	0%
Living Area - 2nd Floor	0.000 pCi/L	100%	0%	0%
Basement	0.100 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.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory
Source: Office of Planning
Telephone: 808-587-2895

HYDROGEOLOGIC INFORMATION

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

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Well Index Database
Source: Commission on Water Resource Management
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

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

KALAMA INTERMEDIATE SCHOOL
120 MAKANI RD
MAKAWAO, HI 96768

Inquiry Number: 7410984.7S
AUGUST 11, 2023

EDR Environmental Lien and AUL Search

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Environmental Lien and AUL Search

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

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

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

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

EDR Environmental Lien and AUL Search

TARGET PROPERTY INFORMATION

ADDRESS

KALAMA INTERMEDIATE SCHOOL
120 MAKANI RD
MAKAWAO, HI 96768

RESEARCH SOURCE

JUDICIAL RECORDS ***NOT*** SEARCHED. BASED ON AVAILABLE INFORMATION EVALUATED BY THE TITLE SEARCH PROFESSIONAL, THE JURISDICTION ***DOES NOT*** REQUIRE A SEARCH OF JUDICIAL RECORDS IN ORDER TO IDENTIFY ENVIRONMENTAL LIENS.

Source 1: MAUI COUNTY RECORDER'S OFFICE

Source 2: HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES

Source 3: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

PROPERTY INFORMATION

Legal Description: BLD 10 CAFETERIA
Current Owner: STATE OF HAWAII
Property Identifiers: 2-2-4-032-109-0000
Comments: NO DEED FOUND 1980 - PRESENT.

EDR Environmental Lien and AUL Search

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

Comments: NONE IDENTIFIED.

OTHER ACTIVITY AND USE LIMITATIONS (AULS)

Other AUL's: Found ☐ Not Found ☒

Comments: NONE IDENTIFIED.

EDR Environmental Lien and AUL Search

MISCELLANEOUS

Comments: NONE IDENTIFIED.

Kalama Intermediate School
120 MAKANI RD
MAKAWAO, HI 96768

Inquiry Number: 7410984.6
August 08, 2023

The EDR Property Tax Map Report

EDR® Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

EDR Property Tax Map Report

Environmental Data Resources, Inc.'s EDR Property Tax Map Report is designed to assist environmental professionals in evaluating potential environmental conditions on a target property by understanding property boundaries and other characteristics. The report includes a search of available property tax maps, which include information on boundaries for the target property and neighboring properties, addresses, parcel identification numbers, as well as other data typically used in property location and identification.

NO COVERAGE

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

Kalama Intermediate School
120 MAKANI RD
MAKAWAO, HI 96768

Inquiry Number: 7410984.11
August 08, 2023

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

08/08/23

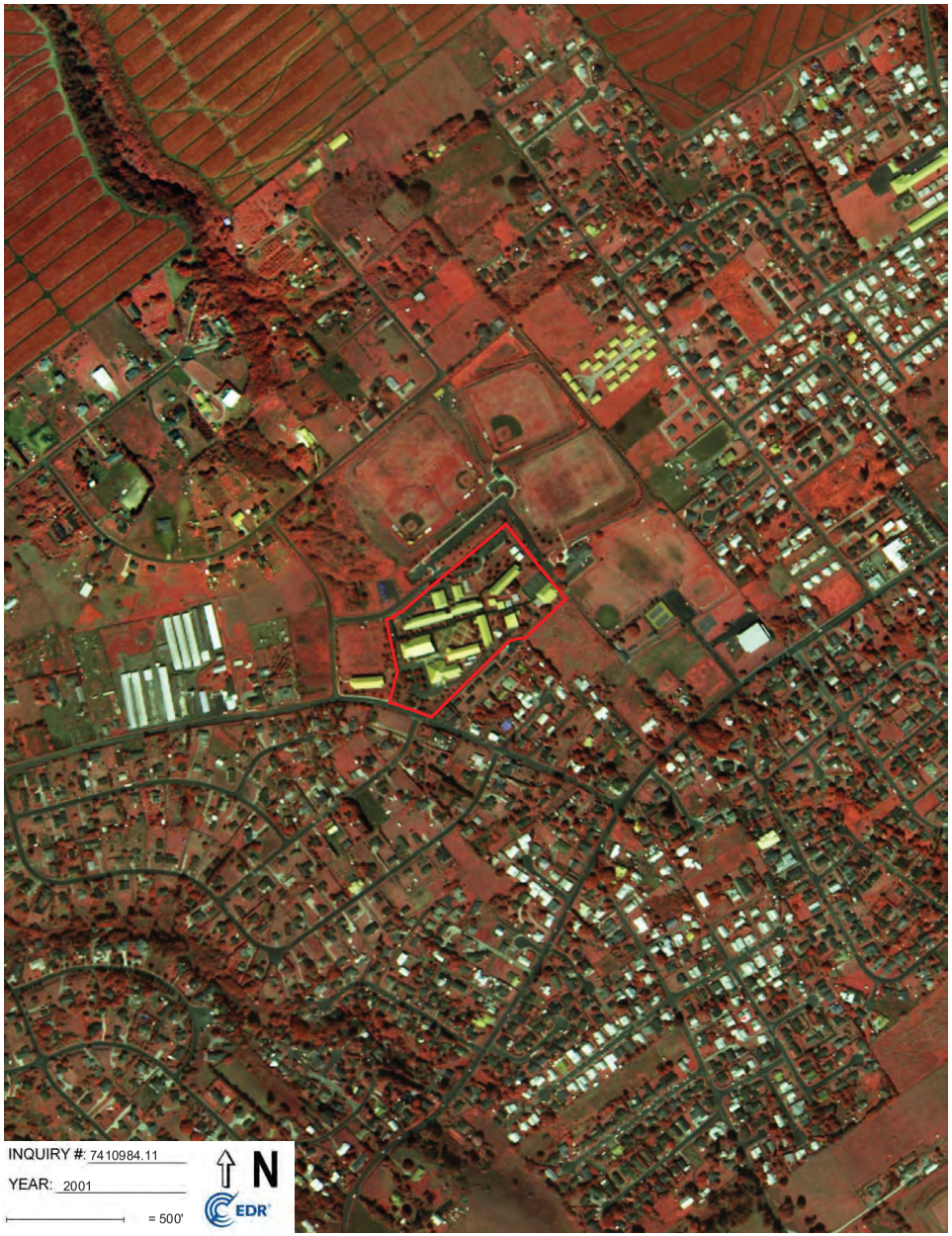
Site Name:	Client Name:
Kalama Intermediate School	Element Environmental , LLC
120 MAKANI RD	98-030 Hekaha Street
MAKAWAO, HI 96768	Aiea, HI 96701-0000
EDR Inquiry # 7410984.11	Contact: Angie Peltier

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

Search Results:

Year	*Scale*	*Details*	*Source*
2001	1"=500'	Acquisition Date: January 01, 2001	USGS/DOQQ
1976	1"=500'	Flight Date: February 09, 1976	USGS
1950	1"=500'	Flight Date: September 28, 1950	USGS

When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.



INQUIRY #: 7410984.11

YEAR: 2001

= 500'

N

EDR

INQUIRY #: 7410984.11

YEAR: 1976

= 500'

N

EDR

Subject boundary not shown because it exceeds image extent or image is not georeferenced.


INQUIRY #: 7410984.11
YEAR: 1950
= 500'
N
EDR

Kalama Intermediate School
120 MAKANI RD
MAKAWAO, HI 96768

Inquiry Number: 7410984.3
August 08, 2023

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

08/08/23

Site Name:	Client Name:
Kalama Intermediate School	Element Environmental , LLC
120 MAKANI RD	98-030 Hekaha Street
MAKAWAO, HI 96768	Aiea, HI 96701-0000
EDR Inquiry # 7410984.3	Contact: Angie Peltier

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Element Environmental , LLC were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # A89D-4958-B69C

PO # 230044

Project 230044 Kalama Intermediate Sch

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: A89D-4958-B69C

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

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

The Sanborn Library LLC Since 1866™

Limited Permission To Make Copies

Element Environmental , LLC (the client) is permitted to make up to FIVE photocopies of this Sanborn Map transmittal and each fire insurance map accompanying this report solely for the limited use of its customer. No one other than the client is authorized to make copies. Upon request made directly to an EDR Account Executive, the client may be permitted to make a limited number of additional photocopies. This permission is conditioned upon compliance by the client, its customer and their agents with EDR's copyright policy; a copy of which is available upon request.

Kalama Intermediate School
120 MAKANI RD
MAKAWAO, HI 96768

Inquiry Number: 7410984.4
August 08, 2023

EDR Historical Topo Map Report
with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

08/08/23

Site Name:	Client Name:
Kalama Intermediate School	Element Environmental , LLC
120 MAKANI RD	98-030 Hekaha Street
MAKAWAO, HI 96768	Aiea, HI 96701-0000
EDR Inquiry # 7410984.4	Contact: Angie Peltier

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Element Environmental , LLC were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:		*Coordinates:*	
P.O.#	230044	**Latitude:**	20.850891 20° 51' 3" North
Project:	230044 Kalama Intermediate S	**Longitude:**	-156.320367 -156° 19' 13" West
		UTM Zone:	Zone 4 North
		UTM X Meters:	778843.14
		UTM Y Meters:	2307967.56
		Elevation:	1546.03' above sea level

Maps Provided:

2017
2013
1991, 1992
1983
1961
1954, 1957
1922

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2017 Source Sheets

Haiku
2017
7.5-minute, 24000

Paia
2017
7.5-minute, 24000

Kilohana
2017
7.5-minute, 24000

Puu O Kali
2017
7.5-minute, 24000

2013 Source Sheets

Haiku
2013
7.5-minute, 24000

Paia
2013
7.5-minute, 24000

Kilohana
2013
7.5-minute, 24000

Puu O Kali
2013
7.5-minute, 24000

1991, 1992 Source Sheets

Kilohana
1991
7.5-minute, 24000
Aerial Photo Revised 1991

Puu O Kali
1992
7.5-minute, 24000
Aerial Photo Revised 1992

Haiku
1992
7.5-minute, 24000
Aerial Photo Revised 1992

1983 Source Sheets

Paia
1983
7.5-minute, 24000
Aerial Photo Revised 1977

Puu O Kali
1983
7.5-minute, 24000
Aerial Photo Revised 1976

Kilohana
1983
7.5-minute, 24000
Aerial Photo Revised 1978

Haiku
1983
7.5-minute, 24000
Aerial Photo Revised 1978

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1961 Source Sheets

MAUI
1961
15-minute, 62500

1954, 1957 Source Sheets

Paia
1954
7.5-minute, 24000
Aerial Photo Revised 1950

Puu O Kali
1954
7.5-minute, 24000
Aerial Photo Revised 1950

Haiku
1957
7.5-minute, 24000
Aerial Photo Revised 1950

Kilohana
1957
7.5-minute, 24000
Aerial Photo Revised 1950

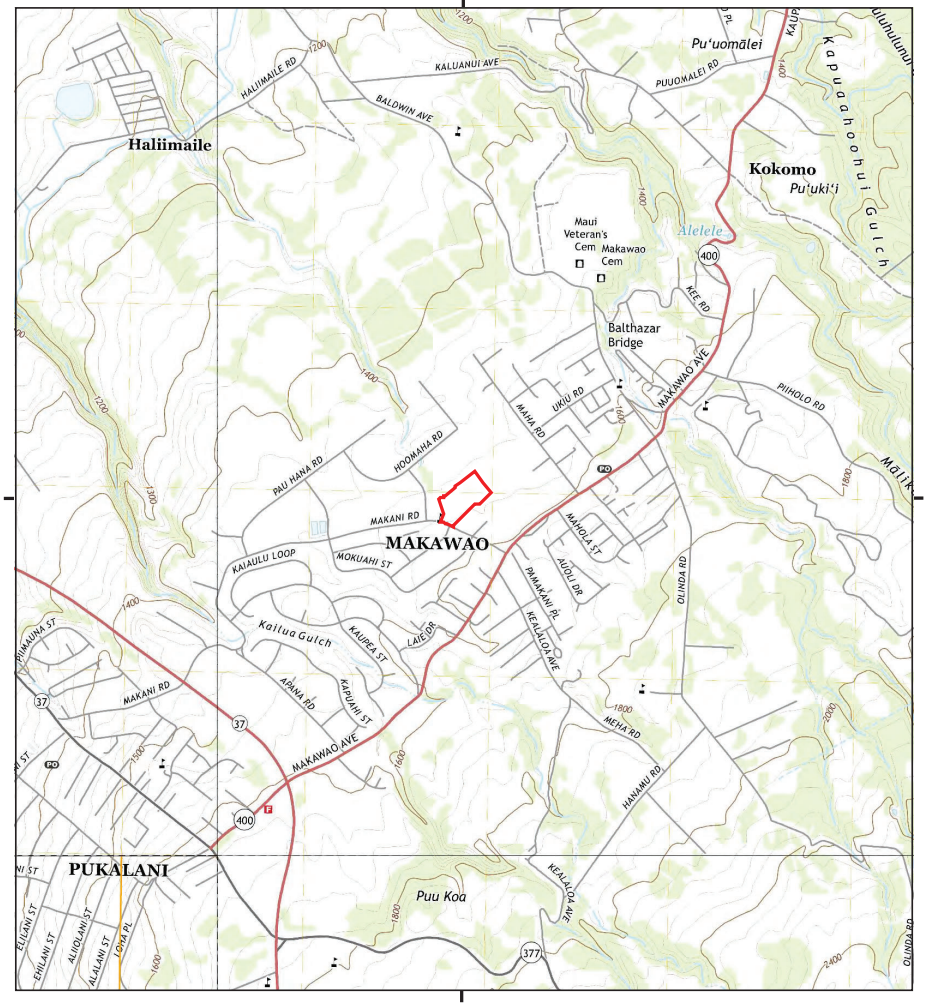
1922 Source Sheets

MAKAWAO
1922
7.5-minute, 31680

HAIKU
1922
7.5-minute, 31680

Historical Topo Map

2017



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

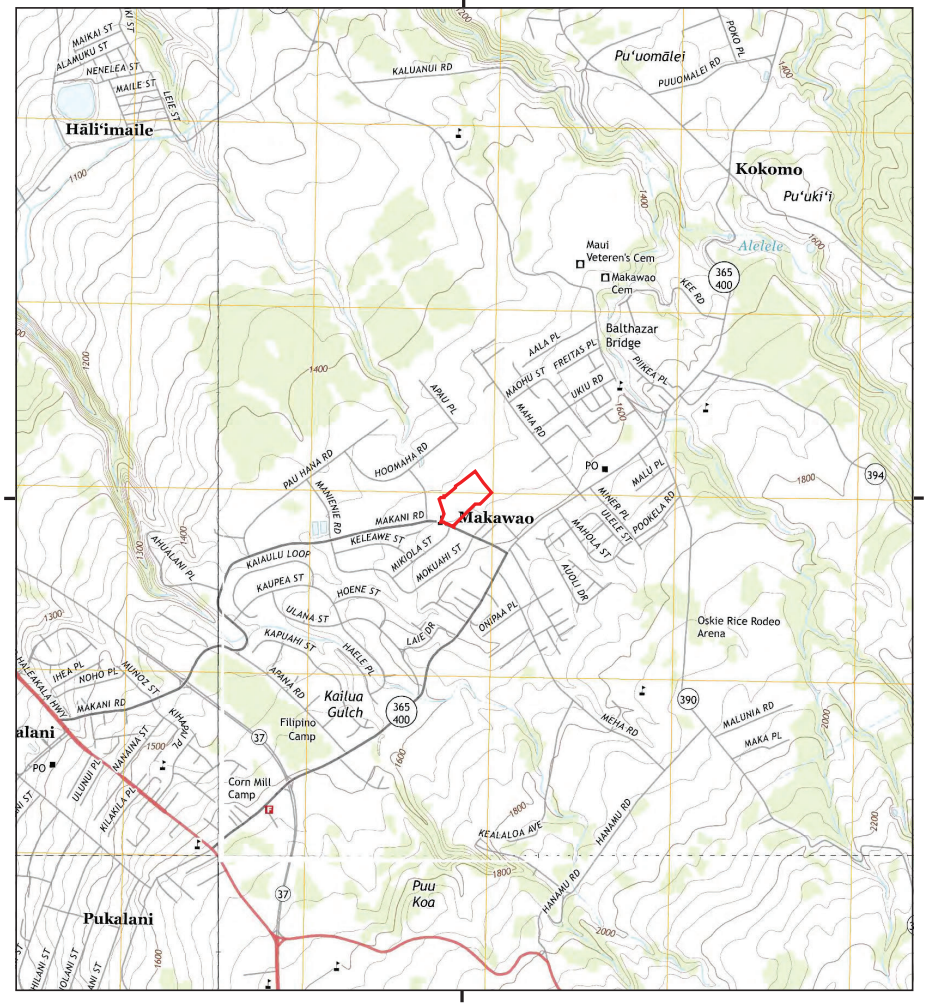
TP, Haiku, 2017, 7.5-minute
SE, Kilohana, 2017, 7.5-minute
SW, Puu O Kali, 2017, 7.5-minute
NW, Paia, 2017, 7.5-minute

SITE NAME: Kalama Intermediate School
ADDRESS: 120 MAKANI RD
MAKAWAO, HI 96768
CLIENT: Element Environmental , LLC

N

Historical Topo Map

2013



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Haiku, 2013, 7.5-minute
SE, Kilohana, 2013, 7.5-minute
SW, Puu O Kali, 2013, 7.5-minute
NW, Paia, 2013, 7.5-minute

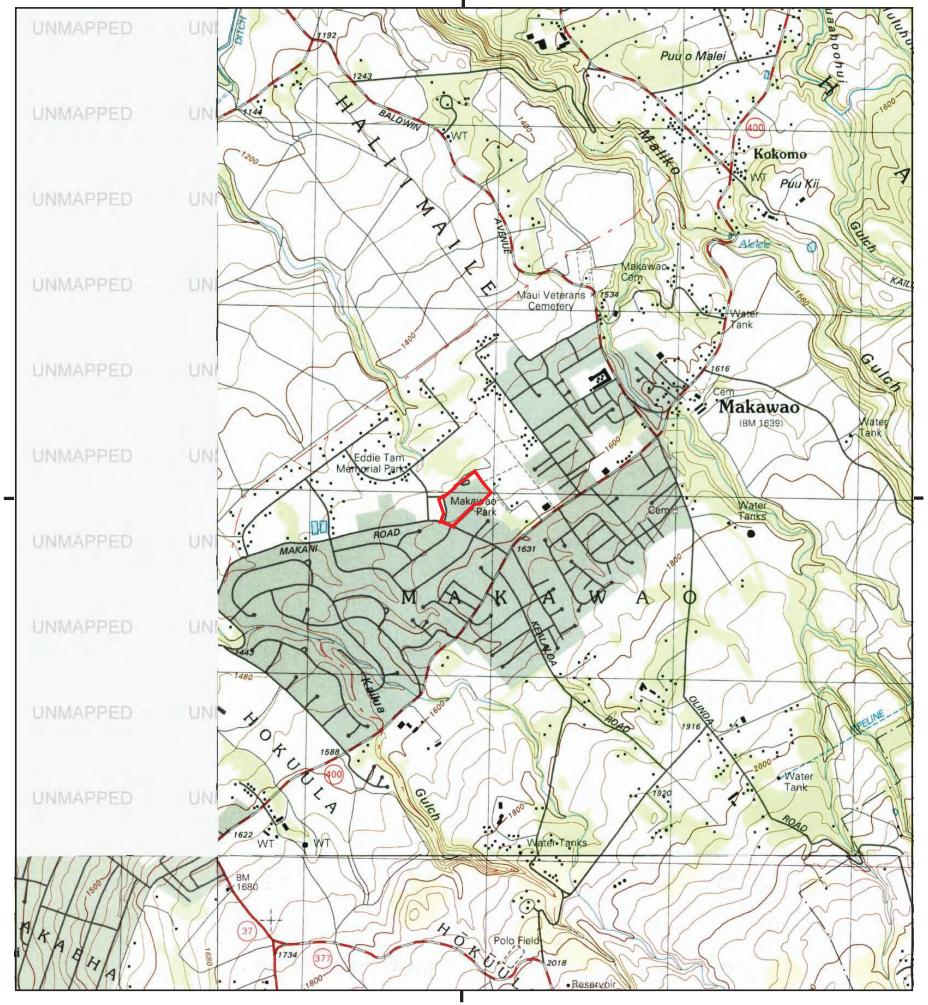
SITE NAME: Kalama Intermediate School
ADDRESS: 120 MAKANI RD
MAKAWAO, HI 96768
CLIENT: Element Environmental , LLC

N

EDR

Historical Topo Map

1991, 1992



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE W E SW S SE

TP, Haiku, 1992, 7.5-minute
SE, Kilohana, 1991, 7.5-minute
SW, Puu O Kali, 1992, 7.5-minute

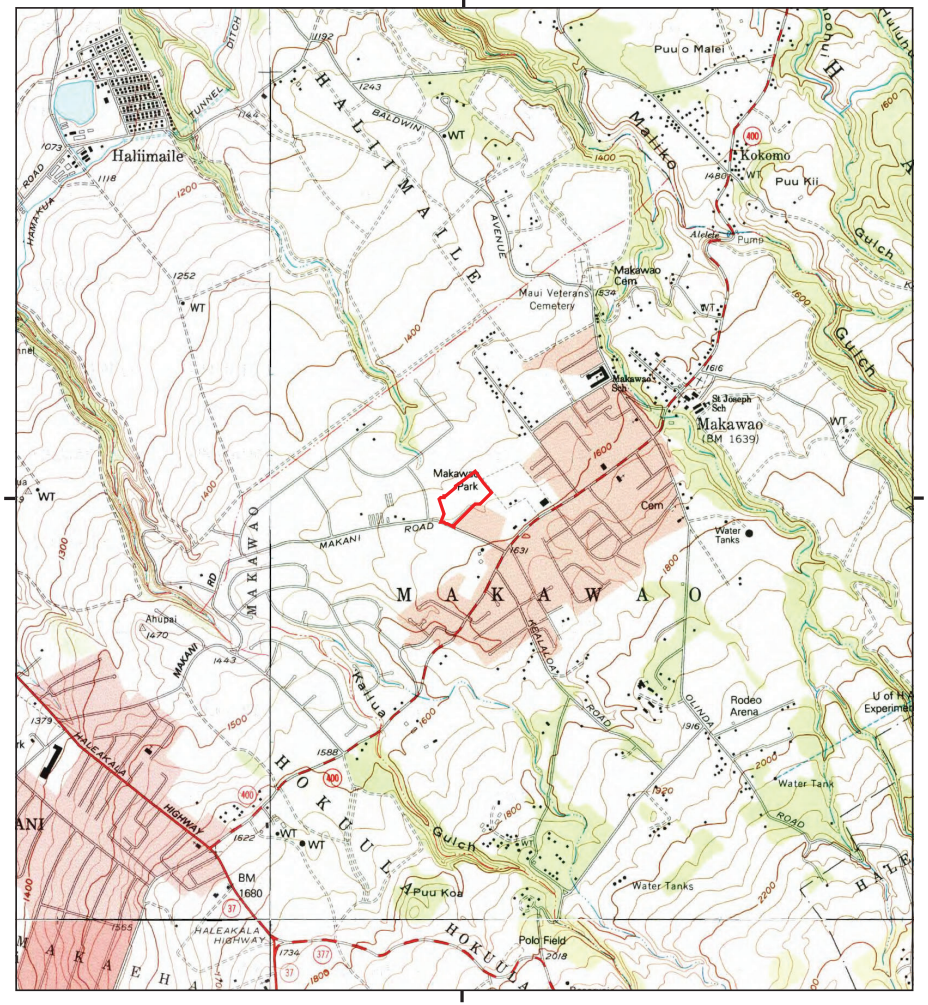
SITE NAME: Kalama Intermediate School
ADDRESS: 120 MAKANI RD
MAKAWAO, HI 96768
CLIENT: Element Environmental , LLC

N

EDR

Historical Topo Map

1983



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE W E SW S SE

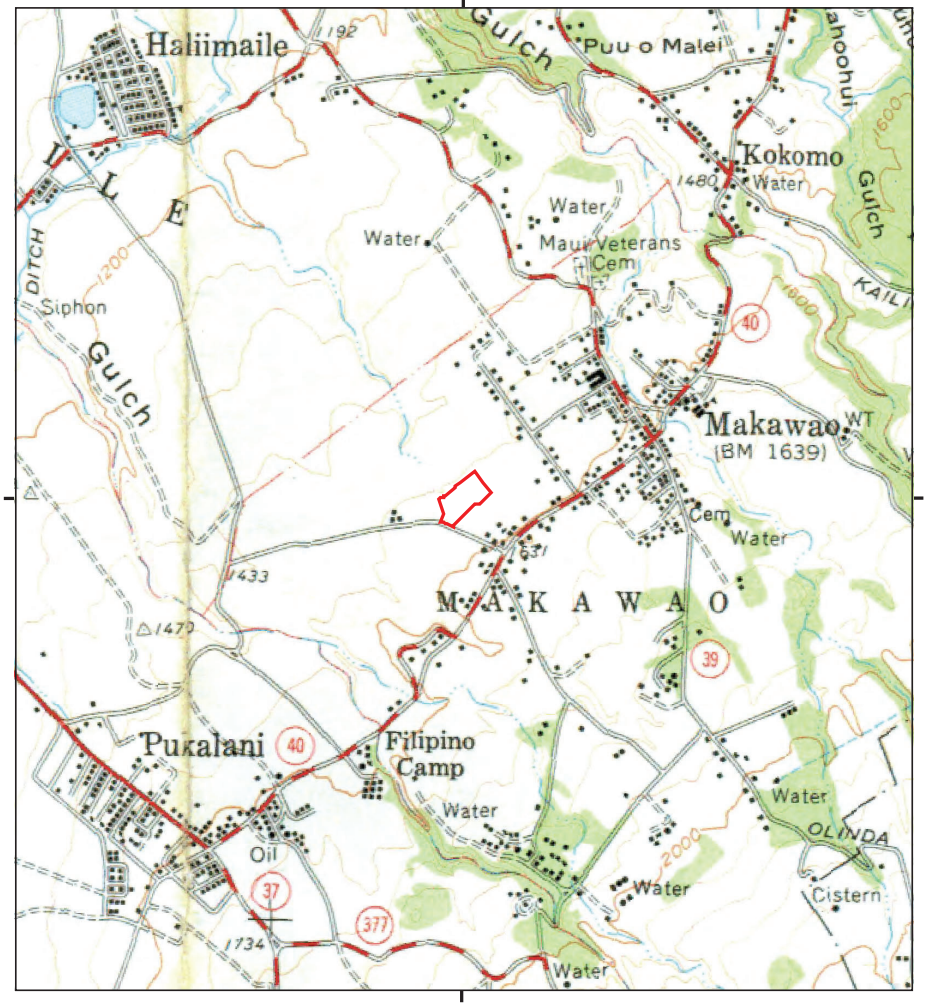
TP, Haiku, 1983, 7.5-minute
SE, Kilohana, 1983, 7.5-minute
SW, Puu O Kali, 1983, 7.5-minute
NW, Paia, 1983, 7.5-minute

SITE NAME: Kalama Intermediate School
ADDRESS: 120 MAKANI RD
MAKAWAO, HI 96768
CLIENT: Element Environmental , LLC

N

Historical Topo Map

1961



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

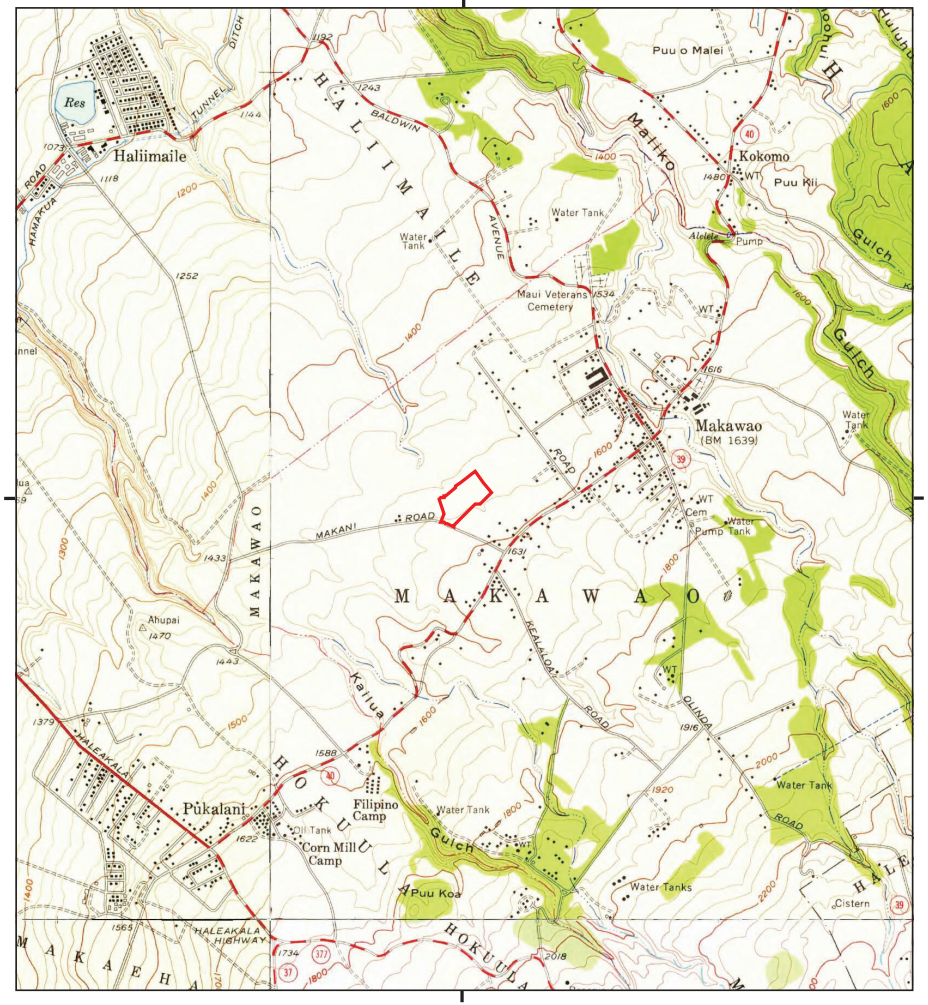
TP, MAUI, 1961, 15-minute

SITE NAME: Kalama Intermediate School
ADDRESS: 120 MAKANI RD
MAKAWAO, HI 96768
CLIENT: Element Environmental , LLC

N

Historical Topo Map

1954, 1957



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

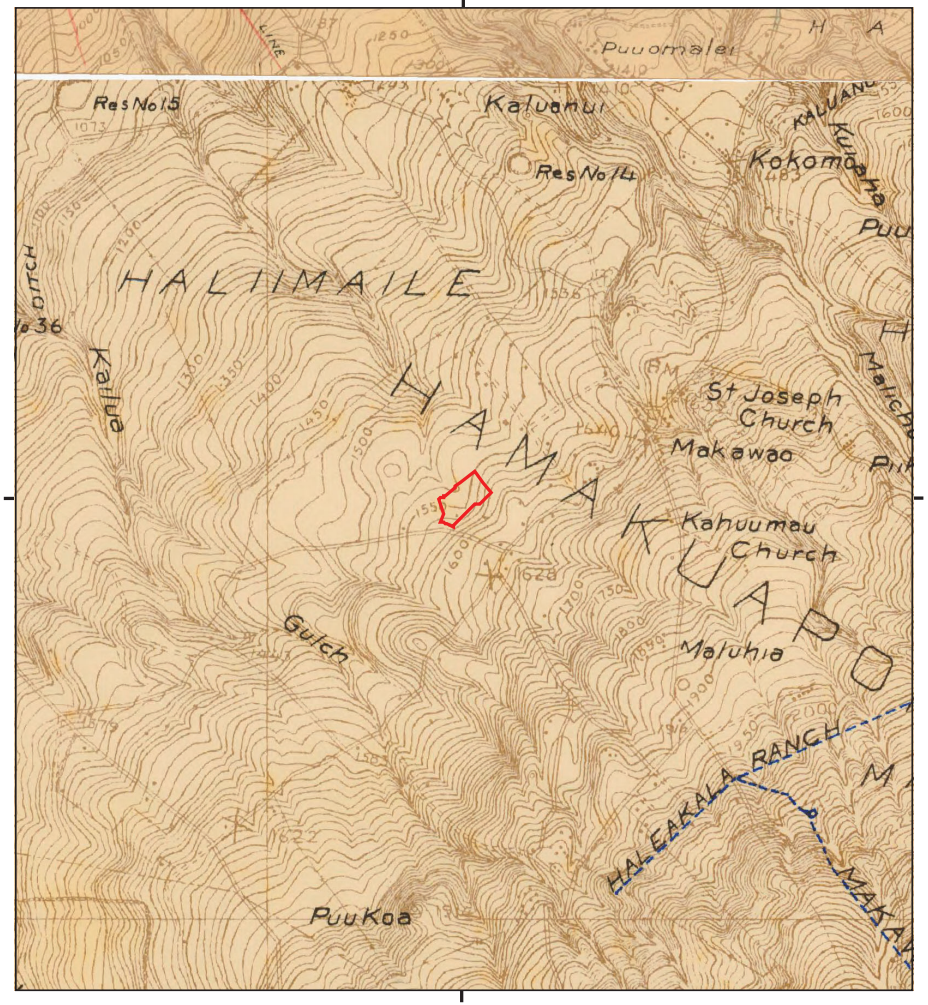
TP, Haiku, 1957, 7.5-minute
SE, Kilohana, 1957, 7.5-minute
SW, Puu O Kali, 1954, 7.5-minute
NW, Paia, 1954, 7.5-minute

SITE NAME: Kalama Intermediate School
ADDRESS: 120 MAKANI RD
MAKAWAO, HI 96768
CLIENT: Element Environmental , LLC

N

Historical Topo Map

1922



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, MAKAWAO, 1922, 7.5-minute
N, HAIKU, 1922, 7.5-minute

SITE NAME: Kalama Intermediate School
ADDRESS: 120 MAKANI RD
MAKAWAO, HI 96768
CLIENT: Element Environmental , LLC

Kalama Intermediate School
120 MAKANI RD
MAKAWAO, HI 96768

Inquiry Number: 7410984.5
August 08, 2023

The EDR-City Directory Image Report

EDR® Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

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

EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available business directory data at approximately five year intervals.

RECORD SOURCES

The EDR City Directory Report accesses a variety of business directory sources, including Haines, InfoUSA, Polk, Cole, Bresser, and Stewart. Listings marked as EDR Digital Archive access Cole and InfoUSA records. The various directory sources enhance and complement each other to provide a more thorough and accurate report.

EDR is licensed to reproduce certain City Directory works by the copyright holders of those works. The purchaser of this EDR City Directory Report may include it in report(s) delivered to a customer.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

Year	Target Street	Cross Street	Source
2020	☑	☑	EDR Digital Archive
2017	☑	☑	Cole Information
2014	☑	☑	Cole Information
2010	☑	☑	Cole Information
2005	☑	☑	Cole Information
2000	☑	☑	Cole Information
1995	☑	☑	Cole Information
1992	☑	☑	Cole Information

FINDINGS

TARGET PROPERTY STREET

120 MAKANI RD
MAKAWAO, HI 96768

Year	CD Image	Source
MAKANI RD		
2020	pg A2	EDR Digital Archive
2017	pg A13	Cole Information
2014	pg A19	Cole Information
2010	pg A27	Cole Information
2005	pg A36	Cole Information
2000	pg A44	Cole Information
1995	pg A50	Cole Information
1992	pg A56	Cole Information

FINDINGS

CROSS STREETS

Year	*CD Image*	*Source*
MAKAWAO AVE		
2020	pg. A6	EDR Digital Archive
2017	pg. A15	Cole Information
2014	pg. A22	Cole Information
2010	pg. A30	Cole Information
2005	pg. A39	Cole Information
2000	pg. A46	Cole Information
1995	pg. A52	Cole Information
1992	pg. A58	Cole Information

City Directory Images

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

MAKANI RD 2020

3	JAMES GARCIA
	LYNN GARCIA
16	HEIDI IHRIG
	RYAN WARREN
21	A KINSEY
	CHARLES LINDEN
	DANIELLE NAKASHIMA
	REEF NAKASHIMA
	SUSAN SHERMAN
22	LAUREL AMINE
	LAUREL BALLENGER
26	JEFFREY ANDREWS
	MAUI HIKING SAFARIS
	WA LANDENBERGER
32	GUY SOUZA
	MATTHEW MITCHELL
	PAOLO BARICCHI
	PATRICK SOSA
39	JAMES ENRIQUES
70	DENNIS CORDEN
	PATTY CORDEN
	RONDA GUSMAN
	TIFFANY CORDEN
	WENDY ANDERSON
78	PATRICIA WADSACK
80	DARYL LEMM
	REGINA LEMM
82	DARYL LEMM
	GUUS MAURI
	HENRY VIERRA
	LEONA TAVARES
	MYRNA SIAROT
	ROBERT SIAROT
96	CHRIS SAITO
	DAVID KOA
	LORI HO
	MARTIN HEINTZMAN
120	CALVARY CHAPEL UPCOUNTRY
	DIBIASE DEANNA
	MOZUMDER KABERI K NP
	SAMUEL E KALAMA INTERMEDIATE
180	ARNEL MACANAS
	BARBARA CABRADILLA
	DEBRA SILVA
	TERESITO CABRADILLA
	TERRY CABRADILLA
198	LOUIS DECOITE
	MAUI FLORAL
	SHIRLEY DECOITE
	SIRINYA YOTHAWONG

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

MAKANI RD 2020 (Cont'd)

284	BRIAN RECOPUERTO
	TONI RECOPUERTO
300	DERRICK GOMES
	ELLISSA BAISA
	JANALENE POOUAHI
	JANICE BAISA
	WESLEY PURDY
360	CORNELIO PULIDO
390	CARL OHATA
410	THOMAS ECHTERNACH
430	LOREN OSBORN
560	KATHLEEN FERNANDEZ
644	FERDINAND BALLESTEROS
680	MARGARET GERNER
860	DANIELLE HINAU
869	CHAD BADER
	VERONICA FIGUEIRA
870	KAULANA KAAA
880	JACQUELYN HOBBS
889	MARILYN FREITAS
890	DON KOFFORD
	KAILANA ANDAYA
891	LAWSON NAKANO
	MICHAEL SALAZAR
	MONICA NOELLE KOHS
	REBECCA BOUDREAU
893	CRAIG HIRAOKA
	HEATHER BOOTH
	MICHAEL MAHONEY
	TEGAN HAMMOND
898	BRENDA ORTA
	RAYMOND ORTA
	SHARNEL ORTA
	VIRGINIA ORTA
899	CHARLENE ESTRELLA
	CHARLENE GOUVEIA
	FRANK ESTRELLA
	RONALD GOUVEIA
901	FRANK ESTRELLA
907	DAVID MASON
	EDWARD REBOLLEDO
	TERESA REBOLLEDO
916	GLEN YOSHIKAWA
	SHANE YOSHIKAWA
917	ELENA LISSONE
	NEIL MARKOWITZ
920	KIMBERLY TAGUCHI
	LEE YOKOTE
	PATRICK TAGUCHI
	SHARON TAGUCHI

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

MAKANI RD 2020 (Cont'd)

921	KENNETH ENRIQUES
924	BARBARA WINTER-COHEN
925	BAKED BOYS CLUB LLC
	GISELA PACHECO
	JOSEPH PACHECO
	VALERIE ABAC
926	DHEYA KEALOHA
	RAYMOND CARY
928	DEBORAH HOOPINGARNER
929	DENNIS BARTON
	EDWINA AGAPAY
	EILEEN CORPUZ
	FREDERICO CORPUZ
936	JOHN AKANA
	MELONIE FERNANDEZ
940	CHRISTIAN FERNANDEZ
	JUANITA FERNANDEZ
	PAUL FERNANDEZ
945	KYLE IWAISHI
	MISAO IWAISHI
	RYAN SPROAT
946	SONNY PIHANA
950	LAURIE MARTIN
	MICHAEL FERNANDEZ
952	JAMES FERNANDEZ
	LENORA FERREIRA
953	CRANSTON KAPOI
	EARL KIRBY
	IAN KIRBY
	KATHLEEN KIRBY
	MICHAEL ROSS
957	ETHEL YOGI
	SHERMAN YOGI
	TERENCE YOGI
960	RAINELL JAVIER
	ROBERT ISAGAWA
970	PATSY ISAGAWA
	ROBERT ISAGAWA
	ROGER ISAGAWA
	ROY ISAGAWA
	TAMMY ISAGAWA
974	PATSY REIKO-W ISAGAWA
	ROBERT ISAGAWA
980	ALAN KAMIYA
	BARBARA CHANG
	JON CHANG
	MURIEL KAMIYA
995	AMY BOYD
	ROZALIA MAL
997	DAISY ROQUE

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

MAKANI RD 2020 (Cont'd)

1014	DUNCAN JOHNSON
	ROSE JOHNSON
1101	KAYLA UYESUGI
	PATRICK BOYLE
1105	RICHARD FRANCO
1109	CARL ASATO
	EVAN ASATO

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

MAKAWAO AVE 2020

15	ATM
	PUKALANI SUPERETTE
	TANIZAKI LIMITED
37	EQUITY ONE REAL ESTATE INC
	FINALLY PAINFREE LLC
	ON ANY GIVEN MONDAY
	RUA 37
55	GARY RYAN
67	FIRST HAWAIIAN BANK
71	ALBERT WATERHOUSE
	AUDREY QUINN
	BOYOUNG KANG
	BRIAN MOTO
	CAROL MOTO
	CASEY ASATO
	EVA RICKORD
	FRANKLIN ATWELL
	FRANKLIN TRU
	GARY LEWIS
	GLORIA ABBOTT
	GLORIA FLEMING
	HELGA COTTER
	HERBERT EVANS
	HILARY HARTS
	JANET BARBER
	JASON WATERHOUSE
	JOHN COTTER
	KAREN COLE
	LOIS WATERHOUSE
	MARIA NATHAN
	MARTHA DEAN
	MICHAEL QUINN
	MOONSUN KANG
	REBECCA SHARAN
	ROBERT COLE
	STEPHEN STOW
	THOMAS SEXTON
	YOSHIE LEWIS
81	ANAND KABBA DAC
	AUNTY LANIS HOMES LLC
	BARKLEY BASTIAN INC
	BETH PICKFORD
	GENTLE CHIROPRACTIC CARE
	JOY'S PLACE LIVE!
	KIT OKAZAKI-STATE FARM INS
	KOJIMA'S SUSHI BAR
	LADWIG ADAM PT
	MARVIN M TANAKA INC
	MAUI NUI CMMA LEARNING NETWORK
	MERI CHIROPRACTIC

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

MAKAWAO AVE 2020 (Cont'd)

81	MILLER LIAT
	PICKFORD BETH DC
	PROFESSIONAL BUSINESS SVC INC
	PUKALANI FAMILY PRACTICE
	PUKALANI PHYSICAL THERAPY
	PUKALANI SQUARE
	PURE HEALTH DENTISTRY
	PURE HEALTH WELLNESS LLC
	ROBERT MASTROIANNI INC
	S & S DESIGN CONSULTANTS
	STATE FARM INSURANCE
	WARDACH JACOB J
130	WAI ULU FEED SUPPLY
133	LA-TI-DA PRODUCTIONS INC
134	MAKAWAO FIRE DEPT
147	MICHAEL HOMALON
	SING TAM
340	CINDY MARMACK
	MCDONALD BLAKER
	TIMOTHY MARMACK
350	MELVIN AINA
	STEPHANIE ALLENCASTRE
370	ANDREA FEITEIRA
	DAVID PURDY
	MARY KAIWI
	SHAUNA FEITEIRA
431	ANITA DECAMBRA
	TAMARA DECAMBRA
441	AWAKEA ARTATES
442	DELGADINA FORT
444	HAKU BALDWIN CTR
	JOANNE MILLER
	MAKAWAO VETERINARY CLINIC
	MAUI EQUINE VETERINARY SVC
	MAUI KENNELS
455	MAURICE LINDSEY
	SONNY LINDSEY
	TAMARA LINDSEY
605	ELOISE MIRANDA
640	ADELE MACANAS
647	CRYSTEL CAIRES
	DALE CAIRES
	RUSSELL CAIRES
	SHERIE CAIRES
657	JONELLE DAVIS
	ROBERT DAVIS
659	WILLIAM HANEY
660	KALEO KEALOHA
682	CHRISTINE O'SULLIVAN
	MARK O'SULLIVAN

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

MAKAWAO AVE 2020 (Cont'd)

686	DONALD CROSSLEY
	LISA PORTER
692	LISA DUX
	REINETTE KUTZ
	ROBERT KUTZ
717	AUDREY NUNEZ
	MANUEL NUNEZ
	VAL'S CRUISE & TRAVEL
	VALERIE NORMAN
726	BEVERLY GRIFFITH
	DEAN HAYASHI
	REBECCA HAYASHI
732	DEREK NISLY
	KODY NISLY
	MICHELLE NISLY
	SHELLY NISLY
740	BARBARA MAHIKOA
746	JON SAKAMOTO
749	JEFFREY TAVARES
	LAUREEN TAVARES
754	JOHN GUARD
757	BRUCE GREENWOOD
764	RAVAN PAVAO
	TIMOTHY AKINA
773	HERBERT KINORES
775	ANNA LABOSSIERE
780	ELFRIEDE TAVARES
	ELIZABETH TAVARES
	RAYMOND TAVARES
790	CURTIS PULI
	MAILANI PULI
	MICHELLE PULI
	RAYNETTE KEPANI
	SHIRLEY KEPANI
795	JOSHUA HART
803	KARMEN FLAVIN
	WALTER WOJCIESKI
805	JOANN MONIZ
812	CAROL NAKASHIMA
	IVAN NAKASHIMA
815	KIT MA
828	MARGIE CYR
	RICKY CYR
851	RONNIE PASALO
	ROY PASALO
	VIRGINIA PASALO
867	LAURIE SILVA
883	JONATHAN CHING
896	AMPAN SRIBURA
902	MITCHELL CHARGIN

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

MAKAWAO AVE 2020 (Cont'd)

905	HELENNA DECAMBRA
	MICHAEL DECAMBRA
931	BOYS & GIRLS CLUB OF MAUI
	EDDIE TAM MEMORIAL CTR
	MAKAWAO HEAD START
	MAUI ECONOMIC OPPORTUNITY INC
938	EDWARD PARSONS
948	ALVIN IWAMOTO
973	KENNETH PETERSON
996	RAY SHIMOTE
1015	JOHNSON JOHNNY
1035	MIYAKE CONCRETE ACCES INC
1037	CONMY ORTHODONTICS OF MAUI
1043	ALYSSA BRISTOL
	ANGELA YOUNG
	ANGIE YOUNG HAIR SALON
	BODHI WELLNESS & PSYCHOTHERAPY
	CASHBACK TOURS LTD
	COUNTRY BOUQUETS-FLORIST
	ELITE PHYSICAL THERAPY
	ELITE PHYSICAL THRPY & SPORTS
	GABRIELLE GALLER RIMM MD
	KELLEY BRISTOL
	LOTUS ACUPUNCTURE
	MAI'S NAIL SALON
	MAUI LEGAL TEAM LLC
	MAUI NET INC
	MAUI SCHOOL-THERAPEUTIC MSSG
	PIZZA FRESH
	PROFESSIONAL BUSINESS SVC
	RANDY BRISTOL
	REBUILD COMMUNITIES INITIATIVE
	RIMM GABRIELLE MD
	SHEILA BRISTOL
	SHOEN BRIAN
	STACK MARK A PT
	TOM BAREFOOT'S TOURS
	TRAVIS BRISTOL
	UNITED STATES REAL ESTATE CORP
	UPCOUNTRY REALTY
1044	SADIE FRIAS
1046	THERESA COSTA
1057	CAROLINE ELIYSARES
	EMILY PYLE
	GIVING BACK
	HALE MAHAOLU
	HARUNO ARAKAKI
	IRENE HANNAH
	JUDY CRANE
	MARY BELLAROSA

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

MAKAWAO AVE 2020 (Cont'd)

1057	PATRICIA LAILEY
	PEARL DONNELLY
	ROBT MOORE
	SHIRLEY BRENNER
	SHIRLEY NELSON
1074	MAKAWAO HONGWANJI MISSION
1075	US POST OFFICE
1100	MINIT STOP
1101	NELDON'S WINDOW COVERINGS
1117	HERMAN NASCIMENTO
	PEGGY NASCIMENTO
1119	ARELAI ARIAN
1120	KRANK CYCLES
	MAKAWAO TOWN PHARMACY
	RAY SHANNON
1127	ATM
	STOPWATCH BAR
1135	704 NORTH GRANT LLC
	BACK IN ACTION CHIROPRACTIC
	COUNTRY CUTS & COLOR
	EARTH & SKY LLC
	ECO SCIENCE SOLUTIONS INC
	GARY RYAN PEMF
	GEOFFREY PECK
	HAWAIIAN CLAY LLC
	ISLAND LANDSCAPE
	JNN MANAGEMENT LLC
	JOHN CASSEL DESIGN STUDIO
	JOY RISING LLC
	KAUHALE UKA LLC
	KOSHEL STEPHEN A PA
	LUMINOUS LIVING LLC
	MADE IN HAWAII HERBALS LLC
	MALAMA ELOHI LLC
	MAUI DIRTY GIRL ART LLC
	MAUI NIGHT MARKET LLC
	MAUI QUILTS LLC
	MAUIWATCH COMMUNITY NTWRK INC
	MEYER KERI
	MILLENNIUM REALTY
	MORE THAN COMPUTERS INC
	NOVA LUNA CTR FOR EATING
	OLINDA POINT FARMS LLC
	PERMACULTURE GROUP
	POSTAL SHOP MAKAWAO
	RZ ELECTRIC INC
	SHAKTI
	SOARING WHALES PHOTOGRAPHY LLC
	SOCIALEYES NP PVT LTD
	VFIT PLUS

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

MAKAWAO AVE 2020 (Cont'd)

1135	Z V C SOLUTIONS LLC
	ZENHEART MASSAGE LLC
1143	EUICHONG HAN
	LIQUOR SHACK & GRINDS
1150	BERMAN HAROLD J D INC
1152	CORNERSTONE CONSIGNMENT STORE
	DRIFTWOOD LLC
	HALEAKALA HAIR LOUNGE
1156	ACCOUNTING SERVICES OF MAUI
	BALDWIN BROTHERS LLC
	BAMBOO LIVING
	JILL CHRISTIERSON
	PIIHOLO RANCH ZIPLINE
1159	MAKAWAO PUBLIC LIBRARY
1160	PARAGON SALON
	VALLEY ISLE PROMOTIONS-O BABY
1169	HAWKES ALEXIS
	HONEY HOUSE
	MAUI HANDS
1170	MONTANA JESSICA A
1188	CASANOVA
	GIOVAN SARTO
1202	POLLI'S MEXICAN RESTAURANT
1265	CHARLA KAINA
	PETER KAINA
1283	SHANA KEKONA
1294	CATHOLIC CHURCHES
	ROMAN CATHOLIC CHURCH
	ST JOSEPH PRESCHOOL
	ST JOSEPH'S CHURCH
1295	PUBLIC WORKS DEPT HIGHWAY DIV
1321	ANTOINETTE ROBINSON
	FRANK ROBINSON
	JESSICA ROBINSON
	KASI NAKOOKA
1341	ROSE FREITAS
	SHARON FREITAS
1355	SERENA GANNON
1359	DENBY FREELAND
1361	ACTIVITIES-ATTRACTIONS ASSN-HI
1373	SHAWN FRANCE
1405	ROBERT PERLMAN
	SEMYON BILMES
1451	AIDAN SOHM-MCDANIEL
	FRANCIS SEGUNDO
	JANA SOHM
	KAWIKA SEGUNDO
	MICHAEL SOHM
1461	ROBERT ZALESKI
1491	MINERVA VIVEIROS

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

MAKAWAO AVE 2020 (Cont'd)

1491	PETER GOOCH
	SAM VIVEIROS
1565	LANCE COLLINS
1664	NOREEN MUSCAT
1674	DAVID DWYER
1680	DR WINDOWS MAUI
1684	ARNOLD KALILIKANE
1700	ALLEN VIERRA
1702	PERCY BARRETTO
1705	ANDREW PEIPER
1711	DAVID REYES
	PAMELA STRAHLE
1721	ROBERT CARVALHO
1746	HELEN BROWN
	MARAEA BROWN
1756	SALVADOR SANTOS

Target Street	Cross Street	Source
✓	-	Cole Information

MAKANI RD 2017

3	GARCIA, JAMES K
16	WARREN, RYAN B
21	FERNANDEZ, DENISE T
	LINDEN, CHARLES E
	OWEN, BERIT C
	SHERMAN, HEIMANA
22	AMINE, LORI P
26	MAUI HIKING SAFARIS
	SHERWOOD, DANIEL A
32	SOUZA, GUY P
	WATKINS, WAYNE C
39	ENRIQUES, JAMES R
40	HILL, RANDALL I
41	ROHDE, LINDA S
70	CORDEN, DENNIS H
78	WADSACK, PATRICIA S
80	LEMM, DARYL F
82	CONTARDI, ADAM
	MAURI, GUUS C
	SIAROT, ROBERT O
96	HO, LORI L
	SANTOS, LEAH
	YOUNG, DAVID
120	SAMUEL ENOKA KALAMA INTERMEDIATE SCH
180	CABRADILLA, BARBARA
	CABRADILLA, TERRY J
	MACANAS, JOSIELYN
198	MAUI FLORAL
284	RECOPUERTO, BRIAN
300	BAISA, ELLIOTT G
390	OHATA, ROBERT O
410	ECHTERNACH, THOMAS N
430	OSBORN, LOREN
560	KELIINOI, ELAINE G
680	GEER, HEINZ
	KEYHANI, LAURIE
869	FIGUEIRA, VERONICA L
880	HOBBS, R
889	FREITAS, JOHN J
890	ANDAYA, KAILANA R
	BROWN, J
891	NAKANO, LAWSON S
893	HIRAOKA, CRAIG M
	KOZAWA, STEVEN
	LAKE, STEVEN W
	MAHONEY, MICHAEL A
898	ORTA, RAYMOND B
899	ESTRELLA, FRANK D
	GOUVEIA, CHARLENE M
900	UJIIE, ETHEL M

Target Street	Cross Street	Source
✓	-	Cole Information

MAKANI RD 2017 (Cont'd)

907 FISHER, JESSE
MASON, DAVID A
REBOLLEDO, EDWARD S
SHEERIN, BRETT
916 YOSHIKAWA, GLEN K
917 LISSONE, ELENA W
920 TAGUCHI, KIMBERLY
TAGUCHI, PATRICK S
YOKOTE, KIMBERLY
924 WINTER, COHEN B
925 ABAC, DERRIN K
ABAC, VALERIE A
926 THOMPSON, THURMAN
929 AGAPAY, EDWINA C
CORPUZ, FREDERICO R
935 ESTES, SANDRA L
936 AKANA, JOHN G
FOSTER, LOIS P
940 FERNANDEZ, PAUL A
945 SPROAT, RYAN
946 FERNANDEZ, JAMES G
950 FERNANDEZ, MIKE
952 FERNANDEZ, JAMES
953 BOOTH, MADALYNE
BUTTKE, ARNIE
EVANS, ANN M
EVANS, JACOB
EVANS, MICHAEL A
957 PEREZ, HALEY
960 ISAGAWA, ROGER H
970 ISAGAWA, ROY K
980 KAMIYA, ALAN M
995 BOYD, AMY
997 HERRARTE, GERSON
998 TANAKA, MICHIO G
1014 BULUSAN, TEODORA P
DANIELS, WIEBKE
ISMAIL, ISA
1101 UYESUGI, GARRETT K
1105 ASATO, EVAN M
PACIFIC ISLAND DRAFTING & DESIGN

Target Street	Cross Street	Source
-	✓	Cole Information

MAKAWAO AVE 2017

15 PUKALANI SUPERETTE
30 RELIABLE DUMP TRUCK SERVICE
37 EQUITY ONE REAL ESTATE
55 SMART START CHRISTIAN PREESCHOOL
67 FIRST HAWAIIAN BANK
71 ABBOTT, GLORIA G
ASATO, CASEY M
BARBER, JANET H
COLE, KAREN C
KAPAS, ANTAL
LEBRON, MELINDA K
LEWIS, GARY A
MOTO, BRIAN T
QUINN, AUDREY L
ROGERS, COLIN
WATERHOUSE, ALBERT D
81 BARKLEY BASTIAN DDS
COMMERCIAL PROPERTIES OF MAUI UPCOUN
DIAGNOSTIC LABORATORY SERVICES INC
INTERNATIONAL UNIVERSITY OF PROFESSI
JOYS PLACE
LOCAL MOCHA CAFE
MASTROIANNI ROBERT MD INC
MERI ROSEN DC
OKAZAKI KIT
PICKFORD BETH DC
PROFESSIONAL BUSINESS SERVICES INC
PUKALANI FAMILY PRACTICE
PUKALANI PHYSICAL THERAPY
STATE FARM INSURANCE
THE NATURE CONSERVANCY
THOMAS W REVELLE CPA MBA
UPCOUNTRY DENTAL
111 BRIAN STOLLEY MD
RONALD B RESNICK MD
130 WAI ULU FEED SUPPLY
133 FIGUEROA, VIVIAN A
135 BACK IN ACTION CHIROPRACTIC
147 CONE, ABBY
JONES, TANA
TAM, SING D
340 MARMACK, TIMOTHY P
350 ALLENCASTRE, STEPHANIE
370 FEITEIRA, SHAUNA M
431 DECAMBRA, LARRY
DECAMBRA, TAMARA K
441 ARTATES, AWAKEA K
442 FORT, JULIA C
444 KEVIN BUTLER DVM
MAKAWAO VETERINARY CLINIC

Target Street	Cross Street	Source
-	✓	Cole Information

MAKAWAO AVE 2017 (Cont'd)

444 MARC MILLER DVM
MAUI HORSE CENTER
455 LINDSEY, MAURICE S
605 MIRANDA, ELOISE
647 CAIRES, RUSSELL P
657 DAVIS, ROBERT J
660 YAMAMOTO, RAYMOND
682 OSULLIVAN, MARK E
686 CROSSLEY, DON J
692 KUTZ, BOB M
717 NUNEZ, MANUEL P
740 SHIN, SHENAN
746 SAKAMOTO, JOHN A
754 BALDWIN, TAMALYN
757 DELEON, DUANE
764 PAVAO, RAVAN E
771 MARTIN, JERRY W
NGALU, JOYCELYN
775 KINORES, RANDY
780 TAVARES, ELFRIEDE R
790 PULI, CURTIS
795 HART, JOSHUA T
803 WOJCIESKI, WALTER J
805 MONIZ, JOANN
808 REZENTS, ALENE M
812 JOAQUIN, BARBARA Y
815 BORGE, PATRICK J
818 AYSO SOCCER REGION
825 YAGI, TERRY L
851 YADAO, REMY
867 CAMPBELL, SHAWNA G
SILVA, LAURIE
YOKOYAMA, JAPO J
871 HOLYOAK, KEVIN J
883 CHING, JONATHAN D
884 BORGE, PATRICK A
896 SRIBURA, AMPAN T
900 RAMAILA, WILLIAM A
905 DECAMBRA, MICHAEL P
928 VONTEMPSKY, ERROL
931 BOYS & GIRLS CLUBS OF AMERICA
938 PARSONS, ALEXANDER S
973 PETERSON, KENNETH E
1043 BAREFOOTS CASHBACK TOURS
COUNTRY BOUQUETS
DAVIDS HAPPY NAILS INC
ELITE PHYSICAL THERAPY & SPORTS MEDI
FIDELITY NATIONAL TITLE INSURANCE
GALLERRIMM GABRIELLE MD
JOANIE ALBRECHT PHD

Target Street	Cross Street	Source
-	✓	Cole Information

MAKAWAO AVE 2017 (Cont'd)

1043 LOTUS ACUPUNCTURE
MAUI SCHOOL OF THERAPEUTIC MASSAGE
PIZZA FRESH
PIZZA FRESH MAKAWAO
RIMM MICHAEL MD
TOM BAREFOOTS TOURS
UPCOUNTRY REALTY
1057 BRENNER, SHIRLEY B
BROCK, CAROL L
CABAN, JANE M
COSBY, CAROL A
DALE, JANE J
DIEGO, ISABEL S
DONNELLY, PEARL R
ELIYSARES, CAROLINE
HALE MAHAOLU
HALE, MAHAOLU
HANNAH, IRENE
KIMM, JOSIE A
LAILEY, PATRICIA A
MILLER, MARDIE J
PYLE, EMILY L
SANDEFUR, PAULA J
SUDA, MARION B
TOM, JOY
VISCANO, BONIFICIANO
WHITE, NORMAN J
WILLIS, FRED J
1074 MAKAWAO HONGWANJI MISSION
1075 MATHEIS, CHRISTINE M
1100 MINIT STOP
1117 NASCIMENTO, HERMAN F
1119 HOOPAI, BRIANNE
1120 MAKAWAO TOWN PHARMACY
MANGOMEDICAL
RODEO MEDICINE
1127 STOPWATCH SPORTSBAR & GRILL
1132 ISLAND LANDSCAPE
1135 BACK IN ACTION CHIROPRACTIC
COUNTRY CUTS & COLOR
DESIGN NETWORK
MILLENNIUM REALTY
POSTAL SHOP MAKAWAO
SURE MESSAGE
1143 LIQUOR SHACK & GRINDS
1150 BERMAN HAROLD J D INC
1152 CORNERSTONE CONSIGNMENT STORE
DRIFTWOOD LLC
HALEAKALA HAIR LOUNGE
THE LEARNING HUI

Target Street	Cross Street	Source
-	✓	Cole Information

MAKAWAO AVE 2017 (Cont'd)

1156	ACCOUNTING SERVICES OF MAUI
	AVALENE GALLERY
	BALDWIN BROTHERS LLC
	PIIHOLO RANCH
	PIIHOLO RANCH STORE
1160	PARAGON SALON
	VALLEY ISLE PROMOTIONSO BABY
1169	THE HONEY HOUSE
1170	CARSON MIA MD
1188	CASANOVA ITALIAN RESTAURANT & DELI
1202	POLLIS MEXICAN RESTAURANT
1265	KAINA, PETER M
1294	ST JOSEPH SCHOOL
	ST JOSEPHS CHURCH
1321	ROBINSON, FRANK A
1341	FREITAS, ROSE C
1355	GANNON, WILLIAM E
1359	JOKIEL, JORDAN W
1361	YEAGER, GAIL J
1367	FIGUEIRA, MILES L
1369	PAIVA SYLVISTER
	PAIVA, SYLVISTER
1373	REARDON, DANIEL
1405	PANA, JOSEPH M
1451	SEGUNDO, FRANCES D
	SEGUNDO, WAYNE K
	SOHM, REBECCA
1491	GOOCH, PETER J
1664	MUSCAT, NOREEN A
1669	HAILI, CARL N
1674	DWYER, BROOKE
1680	PALARDY, MARK C
1684	KALILIKANE, ARNOLD O
1702	BARRETTO, PERCY
1705	HUNZIKER, MA
1730	PASCUA, ANNETTE M
1746	BROWN, CHERYLETTE H
1756	SANTOS, JEFFREY
3682	KAMA LEI DESIGN

Target Street	Cross Street	Source
✓	-	Cole Information

MAKANI RD 2014

3	GARCIA, JAMES A
16	IHRIG, HEIDI
21	LINDEN, CHARLES E
	NAKASHIMA, REEF I
	OWEN, BERIT C
	SHERMAN, SUSAN R
22	AMINE, LORI P
26	WARNER, RANDOLPH T
32	HERNANDEZ, JAMES E
	SOUZA, GUY P
39	ENRIQUES, JAMES R
	MORRISON, TED
40	HILL, JIM L
41	PERREIRA, LINDA I
52	KIYABU, AKIRA
70	ANDERSON, WENDY A
78	PACHECO, HERMINA S
80	LEMM, DARYL F
82	MAURI, GUUS C
	SIAROT, ROBERT O
	VIERRA, HENRY J
96	COPETE, DANIELA
	HEINTZMAN, MARTIN A
	YOUNG, DAVID
120	SAMUEL ENOKA KALAMA INTERMEDIATE SCH
180	CABRADILLA, TERRY J
198	MAUI FLORAL
	WILSON CARVER
	WILSON, CARVER P
230	OCCUPANT UNKNOWN,
284	GOMEZ, MARIA
	RECOPUERTO, BRIAN
300	BAISA, ELLIOTT G
390	OHATA, ROBERT O
410	SPRING, SCOTT
430	OSBORN, LOREN
540	BERMAN, HAROLD J
560	KELIINOI, ELAINE G
563	MAUSHARDT, RHONDA J
566	PEDRONCELLI, ANNETTE R
620	CABOS, ROY W
640	BUGTONG, MARINA B
644	BALLESTEROS, FERDINAND T
680	GEER, HEINZ
	OCCUPANT UNKNOWN,
	PHILLIPS, SEAN
860	AKI-BUKOSKI, R A
869	BADER, CHAD D
870	OCCUPANT UNKNOWN,
880	HOBBS, R

Target Street	Cross Street	Source
✓	-	Cole Information

MAKANI RD 2014 (Cont'd)

881	OCCUPANT UNKNOWN,
889	FREITAS, JOHN J
	OCCUPANT UNKNOWN,
890	ANDAYA, KAILANA R
	KOFFORD, JODI
	STRAIGHT, LAURA
891	OCCUPANT UNKNOWN,
893	GOTEL, DARUNI
	HIRAOKA, CRAIG M
	LAKE, STEVEN W
898	DEMELLO, STEWART I
899	ESTRELLA, FRANK
900	OCCUPANT UNKNOWN,
	UJIIE, DUANE S
904	MATSUMURA, TSUZUKI
907	MASON, DAVID A
	REBOLLEDO, EDWARD S
916	OCCUPANT UNKNOWN,
	YOSHIKAWA, GLEN K
917	LISSONE, ELENA W
920	CONDON, MATTHEW
	TAGUCHI, PATRICK S
	YOKOTE, KIMBERLY
924	OCCUPANT UNKNOWN,
	TAKABAYASHI, WINIFRED S
925	ABAC, VALERIE A
	HILL, JON P
	OCCUPANT UNKNOWN,
926	KEALOHA, DHEYA M
	OCCUPANT UNKNOWN,
	THOMPSON, THURMAN
	WYLIE, DEBRA L
929	BARTON, DENNIS
	CORPUZ, DEANNA A
935	BAISA, FREDDIE C
	ESTES, ERIC
	KAHAIKUPUNE, STACEY
	SOMAOANG, WIL
936	AKANA, JOHN G
	FOSTER, LOIS P
940	FERNANDEZ, PAUL A
945	IWAISHI, KYLE H
	OCCUPANT UNKNOWN,
946	FERNANDEZ, JAMES G
950	FERNANDEZ, MIKE
952	FERNANDEZ, JAMES
953	BUTTKE, AMIE
	EVANS, MICHAEL A
	STOKES, AMIE
957	YOGI, ETHEL S

Target Street	Cross Street	Source
✓	-	Cole Information

MAKANI RD 2014 (Cont'd)

960	ISAGAWA, ROY K
967	OKUHAMA, FRED
970	OCCUPANT UNKNOWN,
980	KAMIYA, ALAN M
990	OCCUPANT UNKNOWN,
995	EDMUNDS, SUSAN R
997	ALFONSO, ERIC G
998	TANAKA, KEITH E
1014	BULUSAN, TEODORA P
1101	GARETT, UYESUGI
	KENNEDY, GEORGE M
1105	ASATO, EVAN M
	PACIFIC ISLAND DRAFTING & DESIGN
	RODRIGUES, RODNEY
1180	AQUINO, MERCEDES

Target Street	Cross Street	Source
-	✓	Cole Information

MAKAWAO AVE 2014

5	FREITAS, J
14	OGLE-DPHREPAULEZZ, MARGARET
15	PUKALANI SUPERETTE
	TANIZAKIS PUKALANI SUPERETTE
30	RELIABLE DUMP TRUCK SERVICE
37	EQUITY ONE REAL ESTATE
55	RYAN GARY J DR
57	OCCUPANT UNKNOWN,
67	FIRST HAWAIIAN BANK
71	ASATO, CASEY M
	ATWELL, FRANKLIN R
	BARBER, JANET H
	CUNNINGHAM, DAVID M
	DEAN, MARTHA L
	FLEMING, ALBERT G
	KANG, MOON S
	LEBRON, MELINDA K
	MOTO, BRIAN T
	PERRY, ROGER B
	ROGERS, COLIN
	SECKLER, JEFFERY A
	SIGLER, ROBERT R
	WATERHOUSE, ALBERT D
	WETZEL, JOHN F
81	ANAND KABBA DAC
	BARKLEY BASTIAN DDS
	BELLERUE TOM LAC
	COMMERCIAL PROPERTIES OF MAUI UPCOUN
	DIAGNOSTIC LABORATORIES SERVICES INC
	INTERNATIONAL UNIVERSITY OF PROFESSI
	JOYS PLACE PUKALANI
	KEIKI KOKUA
	KIT OKAZAKI STATE FARM INSURANCE A
	KOJIMAS SUSHI BAR
	MASTROIANNI ROBERT MD INC
	OHANA HALE ACUPUNCTURE INC
	PROFESSIONAL BUSINESS SERVICES INC
	PUKALANI FAMILY PRACTICE
	PUKALANI FAMILY PRACTICE & URGENT CA
	PUKALANI PHYSICAL THERAPY
	REVELLE THOMAS W CPA MBA
	REVELLE, THOMAS W
	ROSEN MERI DC
	STATE FARM INSURANCE
	THE NATURE CONSERVANCY
	UPCOUNTRY DENTAL
111	OCCUPANT UNKNOWN,
120	COLE, CATHERINE
133	FIGUEROA, VIVIAN A
137	GALLAGHER, LINDA E

Target Street	Cross Street	Source
-	✓	Cole Information

MAKAWAO AVE 2014 (Cont'd)

137	MANDE, ROXANNE M
147	KAPLAN, ROBERT
	OCCUPANT UNKNOWN,
	TAM, SING D
300	BLACKFORD, JIM
340	MARMACK, TIMOTHY P
350	OCCUPANT UNKNOWN,
370	KAIWI, MARY F
	SYLVA, ALFRED
431	LINDSEY, MAURICE S
441	OCCUPANT UNKNOWN,
442	FORT, JULIA C
444	HAKU BALDWIN CENTER
	MAKAWAO VETERINARY CLINIC
455	LINDSEY, MAURICE S
562	SYLVA, KENALI
605	MIRANDA, ELOISE
	OCCUPANT UNKNOWN,
618	HAILI, DANIELE K
647	CAIRES, DALE C
657	DEVLIN, JOHN P
659	WILLIAM, P
660	YAMAMOTO, RAYMOND
682	KESTER, MELODY J
686	CROSSLEY, DON J
692	KUTZ, BOB M
	OCCUPANT UNKNOWN,
717	NUNEZ, MANUEL P
726	HAYASHI, DEAN A
732	RANDALL, DAVID B
740	MAHIKOA, P
746	SAKAMOTO, JOHN A
747	OCCUPANT UNKNOWN,
749	BREADY, SCOTT
	GRZANKA, CHARLES
	HALL, JA S
754	GUARD, JOHN B
757	DELEON, DUANE
764	AKINA, TIMOTHY
771	AMES, HAROLD
	OCCUPANT UNKNOWN,
773	KINORES, RANDY
775	HAWTHORNE, JOYCE L
780	TAVARES, ELFRIEDE M
790	OCCUPANT UNKNOWN,
791	OCCUPANT UNKNOWN,
795	HANADA, BRYCE K
800	DECOITE, CLARENCE
803	OCCUPANT UNKNOWN,
	WOJCIESKI, WALTER J

Target Street	Cross Street	Source
-	✓	Cole Information

MAKAWAO AVE 2014 (Cont'd)

805	MONIZ, DAVID J
808	REZENTS, ALENE M
812	MIYAHIRA, DORIS H
815	OCCUPANT UNKNOWN,
818	AYSO SOCCER REGION 818
825	JONES, TERRY L
830	OCCUPANT UNKNOWN,
851	PASALO, RONNIE L
867	CAMPBELL, SHAWNA G
	JONES, LAURIE A
	KOHN, SHELDON
	SILVA, J
	YOKOYAMA, ITSUMI J
871	OCCUPANT UNKNOWN,
883	CHING, JONATHAN D
884	BORGE, PATRICK A
887	OCCUPANT UNKNOWN,
896	MURPHY, CASEY
900	OCCUPANT UNKNOWN,
902	ALIPIO, DEBRA J
	EHRLE, JESSICA
	PICANCO, LINDA
905	DECAMBRA, MICHAEL P
928	OCCUPANT UNKNOWN,
938	OCCUPANT UNKNOWN,
948	IWAMOTO, ALVIN T
973	PETERSON, ANA M
979	MATSUURA, WAYNE E
1040	ASADA, WAYNE T
1042	MATSUMURA, YUWAO
1043	ALBRECHT JOANIE PHD
	ARCHIBEQUE NALANI PHD
	ARCHIBEQUE, NALANI
	DAVIDS HAPPY NAILS INC
	ELITE PHYSICAL THERAPY & SPORTS MEDI
	FIDELITY NATIONAL TITLE INSURANCE
	GALLERRIMM GABRIELLE MD
	GRAY DANIEL J CPA INC
	MAUI SCHOOL OF THERAPEUTIC MASSAGE
	PIZZA FRESH
	RIMM MICHAEL MD
	RIMM, MICHAEL
	UPCOUNTRY REALTY
1054	NAKAGAWA, MICHELLE
	TEXEIRA, NICHOLAS F
1057	BLACKWELL, NUMIA B
	BRENNER, SHIRLEY B
	BROCK, CAROL L
	CABAN, JANE M
	ELIYSARES, CAROLINE

Target Street	Cross Street	Source
-	✓	Cole Information

MAKAWAO AVE 2014 (Cont'd)

1057	GEORGE, ALICE
	GOUVEIA, LUCIA
	HALE MAHAOLU
	HALE, MAHAOLU
	HAMILTON, LOWELL
	HESSELT, LU
	JOHNSON, ROBERT B
	LAILEY, PATRICIA A
	MOORE, ERLINE L
	NELSON, SHIRLEY J
	SANDEFUR, PAULA J
	STEWART, ELSIE M
	TOM, JOY
	VISCANO, BONIFICIANO
	WALKER, VALERIE R
	WHITE, NORMAN J
	WILLIS, FRED J
	YARLOTT, WILLIAM
1074	MAKAWAO HONGWANJI MISSION
	MORRIS, LANI
1100	MINIT STOP
1104	YAMAMOTO, RONALD K
1117	NASCIMENTO, HERMAN F
1119	HOOPAI, BRIANNE
1120	MAKAWAO TOWN PHARMACY
	RODEO MEDICINE
1127	STOPWATCH SPORTSBAR & GRILL
1135	BARRATT, DAVID L
	COSSLETT, MARK S
	COUNTRY CUTS & COLOR
	ELDRED, SPENCER
	GIARDINO, CAROL
	HELSTOWSKI, ROBERT W
	INACOM INFORMATION SYSTEMS
	ISLAND LANDSCAPE
	JACOBS KARL PSYD
	MILLENNIUM REALTY
	RENTZ, MARK R
	ROSS, ARCEE
	SNYDER, ANNE M
	SURE MESSAGE VOICE MAIL
1143	LIQUOR SHACK & GRINDS
1150	BERMAN HAROLD J D INC
1152	HALEAKALA HAIR LOUNGE
	RIVERS LEARNING CENTERS
1153	STAR, LANI L
1156	AVALENE GALLERY
	BALDWIN BROTHERS LLC
	PIIHOLO RANCH
	PIIHOLO RANCH STORE

Target Street	Cross Street	Source
-	✓	Cole Information

MAKAWAO AVE 2014 (Cont'd)

1156	PIIHOLO RANCH ZIPLINE
	ZIPLINE TOURS
1159	MAKAWAO PUBLIC LIBRARY
1160	PARAGON SALON
	VALLEY ISLE PROMOTIONSO BABY
1168	AHA PRODUCTIONS
1170	CARSON MIA MD
1188	CASANOVA ITALIAN RESTAURANT & DELI
1202	POLLIS MEXICAN RESTAURANT
1255	GOUVEIA, CHIAMEI
1265	KAINA, PETER M
1283	OCCUPANT UNKNOWN,
1294	ST JOSEPH SCHOOL
	ST JOSEPHS CHURCH
1319	FIGUEIRA, KATHLEEN J
1321	ROBINSON, FRANK A
1341	FREITAS, ROSE C
1355	OCCUPANT UNKNOWN,
1359	JOKIEL, JORDAN W
1361	DAVIS, ANTOINETTE M
1365	GANNON, WILLIAM E
1367	PAIVA, JULIA R
1369	PAIVA, SYLVISTER
1373	FRANCE, SHAWN J
1377	DENNY, JANINE L
1401	OCCUPANT UNKNOWN,
	PANA, DANROY M
1405	PANA, JOSEPH M
1451	SEGUNDO, FRANCIS D
1491	BLAIR, J
1634	KALILIKANE, CLAUDETTE
1664	GOBEL, MIKEL K
1669	HAILI, CARL N
1674	DWYER, BROOKE
1680	PALARDY, MARK C
1684	KALILIKANE, ARNOLD O
1700	VIERRA, LEANDRA
1702	OCCUPANT UNKNOWN,
1711	STRAHLE, JON R
1730	BROWN, GEORGE R
1745	TREVINO, ADAM
1746	BROWN, CHERYLETTE H
1756	SANTOS, JEFFREY
3682	JEWELS OF THE WHITE TARA
	LITTLE TIBET INC

Target Street	Cross Street	Source
✓	-	Cole Information

MAKANI RD 2010

3	GARCIA, JAMES A
21	LINDEN, CHARLES B
	NAKASHIMA, REEF I
	OWEN, BERIT C
	SHERMAN, SUSAN R
22	BALLENGER, LAUREL P
26	ROSS, MITCHELL D
32	ALOHA HIDDEN DOG FENCING
	HERNANDEZ, JAMES E
	SOUZA, GUY P
39	ENRIQUES, JAMES R
41	PERREIRA, LINDA I
52	KIYABU, DURWIN A
70	ANDERSON, WENDY A
78	PACHECO, HERMINA S
80	LEMM, DARYL F
82	MAURI, GUUS
96	FLATTICH, PAMELA
	HEINTZMAN, MARTIN A
	MIRANDA, LEON C
120	SAMUEL E KALAMA INTERMEDIATE
180	CABRADILLA, TERRY J
	OCCUPANT UNKNOWN,
230	OCCUPANT UNKNOWN,
284	GOMEZ, MARIA
	RECOPUERTO, BRIAN
291	FUNK, CLAYTON
300	POOUAHI, DANIDEAN K
331	SMITH, TERRANCE
390	OHATA, ROBERT O
410	SPRING, GEORGE E
430	MCCANN, ALVIS
540	BERMAN, HAROLD J
563	MAUSHARDT, JEAN A
566	ZACHARSKI, EDWIN R
620	CABOS, ROY W
640	BUGTONG, MARINA B
680	FITZPATNCK, LAWRENCE
	GERNER, MARGARET L
	HARTMAN, TOM
	MARGARET INC
	OCCUPANT UNKNOWN,
860	AKI-BUKOSKI, R A
869	FIGUEIRA, VERONICA
880	HOBBS, JACQUELYN R
881	JIO, NOBUYOSHI
889	FREITAS, JOHN J
	OCCUPANT UNKNOWN,
890	ANDAYA, KAILANA R
	SOARES, BRIAN P

Target Street	Cross Street	Source
✓	-	Cole Information

MAKANI RD 2010 (Cont'd)

891	MOSES, JOSEPHINA
893	BLEIER, JENNIFER B
	HIRAOKA, CRAIG M
	LAKE, STEVEN W
898	DEMELLO, STEWART I
899	ESTRELLA, FRANK
900	OCCUPANT UNKNOWN,
	UJIIE, DUANE S
904	OCCUPANT UNKNOWN,
907	FISHER, AMBER K
	MASON, DAVID A
	REBOLLEDO, EDWARD S
916	YOSHIKAWA, GLEN K
917	LISSONE, ELENA W
920	OCCUPANT UNKNOWN,
	TAGUCHI, PATRICK S
924	OCCUPANT UNKNOWN,
	SILA, TIMUR
	VALLEY, M
	WINTER-COHEN, BARBARA W
925	HORN, NAAMAN C
	OCCUPANT UNKNOWN,
	PACHECO, JOSEPH
926	ABAC, HUBERT W
	KEALOHA, DONOVAN S
	OCCUPANT UNKNOWN,
	THOMPSON, THURMAN
	WYLIE, DEBRA L
929	BARTON, DENNIS
935	BAISA, FREDDIE C
	OCCUPANT UNKNOWN,
	SOMAOANG, W
936	OCCUPANT UNKNOWN,
940	FERNANDEZ, PAUL A
945	HIAPO, CRISTOLE
	IWAISHI, KYLE H
	OCCUPANT UNKNOWN,
946	FERNANDEZ, JAMES G
950	OCCUPANT UNKNOWN,
952	FERNANDEZ, JAMES
953	EVANS, MICHAEL A
	OCCUPANT UNKNOWN,
957	YOGI, ETHEL S
960	ISAGAWA, ROY K
	OCCUPANT UNKNOWN,
967	OKUHAMA, FRED
970	OCCUPANT UNKNOWN,
980	KAMIYA, ALAN M
990	SILVA, JOHN D
995	LONG, JESSE M

Target Street	Cross Street	Source
✓	-	Cole Information

MAKANI RD 2010 (Cont'd)

995	OCCUPANT UNKNOWN,
997	OCCUPANT UNKNOWN,
998	TANAKA, KEITH E
1014	BULUSAN, ISABEL
1101	OCCUPANT UNKNOWN,
	UYESUGI, GARRETT K
1105	ASATO, CARL S
	FRANCO, RICHIE R

Target Street	Cross Street	Source
-	✓	Cole Information

MAKAWAO AVE 2010

5	FREITAS, J
15	PUKALANI SUPERETTE
37	EQUITY ONE
	EQUITY ONE REAL ESTATE INC
	HUNTON CONRAD & ASSOC INC
55	RYAN CHIROPRACTIC OFFICES
57	OCCUPANT UNKNOWN,
67	FIRST HAWAIIAN BANK
71	ABBOTT, C M
	BARBER, JANET H
	EDWARDS, TONY G
	EGERER, KLAUS F
	KANG, MOON S
	LEBRON, MELINDA K
	PAGE, JAMES E
	PECK, BRIAN M
	SECKLER, SARAH
	SUZUKI, ROBERT N
	WATERHOUSE, JR
74	RODRIGUES, LEROY
81	BARKLEY BASTIAN INC
	DRAEGER JOHN MD
	GUENTHER DIANNA L
	HEART & SOUL THERAPY
	INTERNATIONAL UNIVERSITY
	NATURE CONSERVANCY
	PARADISE PHARMACY
	PERMANENT MAKEUP & SKIN CARE
	PUKALANI PHYSICAL THERAPY
	PUKAUNI SQUARE
	ROBERT MASTROIANNI INC
	ROSEN MERI DC
	SUNNY MAUI SPECIALTIES
	UPCOUNTRY DENTAL
	UPCOUNTRY MEDICAL CTR INC
111	AKU EYES
	HALE O HEALING
	OCCUPANT UNKNOWN,
	UPCOUNTRY MEDICAL CLINIC
133	BUYERS PARADISE
	MONIZ, ALLEN W
134	MAKAWAO FIRE DEPT
137	GALLAGHER, LINDA
	MANDE, ROXANNE M
147	DECOITE, JAMES P
	OCCUPANT UNKNOWN,
	TAM, SING D
263	SPEERE, CHRIS
340	MARMACK, TIMOTHY P
350	OCCUPANT UNKNOWN,

Target Street	Cross Street	Source
-	✓	Cole Information

MAKAWAO AVE 2010 (Cont'd)

370	HEYMAN, HEATHER
	KAIWI, DONDI S
	SYLVA, ALFRED
431	DECAMBRA, LARRY
	LINDSEY, SONNY
441	OCCUPANT UNKNOWN,
442	FORT, JULIA C
444	MAKAWAO BOARDING KENNEL
	MAKAWAO VETERINARY CLINIC
562	SYLVA, KENALI
605	MIRANDA, ELOISE
	OCCUPANT UNKNOWN,
618	HAILI, DANIELE
647	CAIRES, RUSSELL P
657	DEVLIN, JOHN P
659	LINDGREN, ANN L
660	HOLMES, ANNE M
682	CHAVES, NICOLE N
686	CROSSLEY, DON J
692	EASY STREAM NETWORKS
	FLECK, SEAN K
	OCCUPANT UNKNOWN,
717	NUNEZ, MANUEL P
	VALS CRUISE & TRAVEL
726	HAYASHI, DEAN A
732	RANDALL, DAVID B
740	MAHIKOA, P
746	SAKAMOTO, JOHN A
747	OCCUPANT UNKNOWN,
749	HART, JAMES J
	POLOSKY, MICHELLE L
754	MERTENS, WILLIAM A
764	OCCUPANT UNKNOWN,
771	OCCUPANT UNKNOWN,
773	KINORES, HERBERT S
775	HAWTHORNE, JOYCE L
780	TAVARES, ELFRIEDE M
790	DECOITE, CLARENCE S
791	OCCUPANT UNKNOWN,
795	HANADA, BRYCE K
800	DECOITE, CLARENCE
803	OCCUPANT UNKNOWN,
	WOJCIESKI, WALTER J
805	MONIZ, DAVID J
808	REZENTS, ALENE M
	TREE & LANDSCAPE DESIGNS LLC
812	JOAQUIN, LAWERENCE H
815	OCCUPANT UNKNOWN,
825	YAGI, TERRY L
830	OCCUPANT UNKNOWN,

Target Street	Cross Street	Source
-	✓	Cole Information

MAKAWAO AVE 2010 (Cont'd)

851	YADAO, VIDALITO P
867	OCCUPANT UNKNOWN,
	YOKOYAMA, JAPO
883	CHING, JONATHAN D
896	ANDERSON, DAVID A
900	OPSAHL, THOMAS G
902	GOMES, HARRY M
905	DECAMBRA, MICHAEL P
928	OCCUPANT UNKNOWN,
931	MAUI COUNTY PARKS & RECREATION
938	OCCUPANT UNKNOWN,
948	IWAMOTO, ALVIN T
973	PETERSON, KENNETH A
979	MATSUURA, YOSHIH
980	JOHNSON, BJ J
990	OKIMOTO, LORI N
1035	MIYAKE CONCRETE ACCESSORIES
1037	ISLAND SOTHEBYS INTL REALTY
1040	ASADA, WAYNE T
1042	MATSUMURA, YUWAO
1043	AKAMAI EMPLOYMENT SVC
	ALBRECHT JOANIE PHD
	ANGIE YOUNG HAIR SALON
	ARCHIBEQUE, NALANI
	COLDWELL BANKER
	COMMERCIAL PROPERTIES OF MAUI
	DANIEL J GRAY INC
	ELITE PHYSICAL THERAPY LLC
	GRAY, DANIEL J
	KOKUA MEDICAL CLAIMS
	MAUI SCHOOLTHERAPEUTIC MSSG
	NALANI W ARCHIBEQUE PHD
	PIZZA FRESH MAKAWAO
	PROFESSIONAL BUSINESS SVC INC
	REVELLE THOMAS W CPA
	UPCOUNTRY REALTY
1045	PANA, DANROY M
1054	TEXEIRA, NICHOLAS F
1057	APPLEWHITE, MATILDA
	ARAKAKI, YOSHIO
	BOND, JUNE F
	BOWER, PAT
	BRENNER, SHIRLEY B
	BROADWAY, MARY L
	BROCK, CAROL L
	DIEGO, ISABEL
	ELIYSARES, CAROLINE
	HALE MAHAOLE EHA ELDERLY
	HANNAH, IRENE
	HARRIS, POLLY B

Target Street	Cross Street	Source
-	✓	Cole Information

MAKAWAO AVE 2010 (Cont'd)

1057	HESSELT, LU
	JOHNSON, ROBERT B
	KOMATSU, KIYOTO
	LAILEY, P A
	MENDELSON, STANLEY M
	MILLER, ARLENE J
	OFLYNN, THOMAS P
	PYLE, EMILY L
	RABAGO, MARGARET
	ROBINSON, NELL
	STEWART, ELSIE M
	SWENSON, SHIRLEY A
	VISCANO, BONIFICIANO
	WALKER, VALERIE R
	WHITE, NORMA J
	YEAKEY, EMILY H
1075	US POST OFFICE
1100	MINIT STOP
1104	YAMAMOTO, RONALD K
1117	NASCIMENTO, HERMAN F
1119	ARIAN, ARELAI C
1120	MAKAWAO TOWN PHARMACY
1127	STOPWATCH SPORTSBAR & GRILL
1135	AULD, WILLIAM
	BARRATT, DAVID L
	BEST, LAURENCE E
	BLOCH, BRENDA J
	BOSWELL, JOAN B
	CARSON, ANDY F
	COSSLETT, MARK S
	COUNTRY CUTS & COLOR
	EBIZ CONSULTING
	EDELMAN JOEL
	EHRLICH NATHAN
	FISHER, CHRISTINA
	GAGE, NITA G
	GANNON, JOY
	GIARDINO, CAROL
	HELSTOWSKI, ROBERT W
	INACOM INFORMATION SYSTEMS
	ISLAND LANDSCAPE
	ISLAND SUPPLY
	JACOBS KARL PHD
	JACOBS, RHODA J
	KLEID, KEN L
	LARSON, NANCY J
	MILLENNIUM REALTY
	MORGAN, HAP G
	NAVRAN, WILLIAM S
	OLA HA HOLISTIC HEALTH CLINIC

Target Street	Cross Street	Source
-	✓	Cole Information

MAKAWAO AVE 2010 (Cont'd)

1135	ORE, GARY T
	POSTAL PLUS
	POSTAL SHOP MAKAWAO
	PSYCHOLOGICAL SERVICE CTR LLC
	R Z ELECTRIC INC
	ROSE, SHARON
	SCANLON, JOHN O
	SHAKTI
	SNYDER, ANNE M
	SOLANGE
	SURE MESSAGE VOICE MAIL
	VALENTINE, GAIL V
	WELLS PAUL MD
1143	LIQUOR SHACK & GRINDS
1152	NOVA LUNA CTR FOR EATING
	RANDY JAY BRAUN GALLERY
	YELLOWBIRD GRAPHIC DESIGN
1156	PIIHOLA RANCH ZIPLINE
	SPA LUNA
	UPCOUNTRY FINE ART INC
1159	MAKAWAO PUBLIC LIBRARY
1160	KIMBERS SALON
	VALLEY ISLE PROMOTIONSO BABY
1170	BRIDGE MEDICINE
1255	OCCUPANT UNKNOWN,
1260	BARRETT, NICOLE
	MATIS, MARY
	SAND SLIPPAHS
	SEAVER, SYDNEY D
1265	KAINA, PETER M
1283	OCCUPANT UNKNOWN,
1294	ST JOSEPH SCHOOL
	ST JOSEPHS CHURCH
1295	PUBLIC WORKS DEPT HIGHWAY DIV
1319	FIGUEIRA, LAWRENCE
1321	ROBINSON, FRANK A
1341	FREITAS, RAYMOND P
1355	EMPIRE DISPOSAL INC
	GANNON, JOHN J
1359	OCCUPANT UNKNOWN,
1361	DAVIS, ANTOINETTE M
	HEALTH SPAS HAWAII LLC
1365	GANNON, WILLIAM E
1367	PAIVA, JULIA R
1369	PAIVA, SYLVISTER
1373	OCCUPANT UNKNOWN,
1377	OCCUPANT UNKNOWN,
1401	OCCUPANT UNKNOWN,
1405	PANA, JOSEPH M
1451	OCCUPANT UNKNOWN,

Target Street	Cross Street	Source
-	✓	Cole Information

MAKAWAO AVE 2010 (Cont'd)

1491	VIVEIROS, SAMUEL W
1565	ROGERS, BEN H
1664	GOBEL, MIKEL K
1669	HAILI, CARL N
1674	DWYER, DAVID R
1680	ANGELOS, TAYLOR R
1700	VIERRA, ALLEN L
1702	OCCUPANT UNKNOWN,
1705	OCCUPANT UNKNOWN,
1711	STRAHLE, JON R
1730	BROWN, M R
1745	OCCUPANT UNKNOWN,
1746	BROWN, CHERYLETTE H
1756	SANTOS, SALVADOR
3682	JEWELS OF THE WHITE TARA

Target Street	Cross Street	Source
✓	-	Cole Information

MAKANI RD 2005

3	GARCIA, JAMES
16	DIBBEN, CHRISTINA
21	KLUHERZ, DEBORAH J
	OWEN, BERIT C
	PUHA, MORALES L
	SHERMAN, SUSAN H
22	AMINE, WAYNE T
26	LANDENBERGER, WALLE
32	ALOHA HIDDEN DOG FENCE
	HERNANDEZ, JAMES E
	OCCUPANT UNKNOWN,
	SOUZA, G P
39	ENRIQUES, JAMES R
40	HILL, JIM L
41	PERREIRA, L S
70	CORDEN, DENNIS H
78	PACHECO, HERMINA S
82	BURGESS, SMOKEY
	FRIMODT, EINAR
	JENNIFER, N
	MAURI, GUUS
	TAVARES, LEONA
84	VUICH, JOHN
96	CORPUZ, JASON K
	HAZEN, DONNIE J
120	KALAMA SAMUEL E INTERMEDIATE SCHOOL
180	CAB & CORD LLC
	CABRADILLA, TERRY J
	OCCUPANT UNKNOWN,
198	OCCUPANT UNKNOWN,
	SIMMONS, ANGELA M
228	SEARS, SHARI L
250	HIGA, RAYMOND T
284	RECOPUERTO, BRIAN
291	FUNK, CLAYTON
331	SMITH, TERRANCE
346	PAIVA, DAMIEN J
364	DELACRUZ, DARRYL
410	GESCO SALES AND SUPPLY INC
	SPRING, GEORGE E
430	CHUN, STUART
440	BALLARD FAMILY MORTUARY
563	MAUSHARDT, JEAN A
620	CABOS, ROY W
640	BUGTONG, MARINA B
680	GERNER, HEINZ J
	KMENTT, WALDEMAR D
	MARGARET INC
	OCCUPANT UNKNOWN,
860	PAIO, JON

Target Street	Cross Street	Source
✓	-	Cole Information

MAKANI RD 2005 (Cont'd)

869	JIO, RACHAEL M
870	RANDELS, CHRISTOPHER J
880	HOBBS, JACQUELYN R
881	JIO, NOBUYOSHI
889	FREITAS, JOHN V
	OCCUPANT UNKNOWN,
	VACCA, RICHARD L
890	MENOR, GUY
	SOARES, BRIAN
	SPARKS, KEITH
	TREU, WILBUR H
	WATSON, JOHN
891	OCCUPANT UNKNOWN,
893	LAKE, STEVEN W
	STEVES AUTO QUICK FIX INC
898	DEMELLO-ORTA, RAENEL
899	ESTRELLA, FRANK
900	OCCUPANT UNKNOWN,
	UJIIE, DUANE S
904	MATSUMURA, TSUZUKI
907	BROWN-THOMPSON, VERDA
	OCCUPANT UNKNOWN,
	REBOLLEDO, EDWARD S
	RODRIGUEZ, MARIA D
916	YOSHIKAWA, GLEN K
920	LOPES, ALFRED C
	OCCUPANT UNKNOWN,
924	CLARK, KERSTON
	WINTER, COHEN B
	WINTER-COHEN, BARBARA
925	OCCUPANT UNKNOWN,
	WONG, ROBERTA
926	OCCUPANT UNKNOWN,
	WYLIE, DEBRA L
929	CORPUZ, DEANNA
	CORPUZ, FREDERICO R
935	BAISA, FREDDIE C
	OCCUPANT UNKNOWN,
936	FERNANDEZ, ROWDY A
	OCCUPANT UNKNOWN,
940	FERNANDEZ, PAUL A
945	IWAISHI, KYLE H
	OCCUPANT UNKNOWN,
946	FERNANDEZ, JAMES G
953	KAPOI, CRANSTON K
957	YOGI, SHERMAN
960	ISAGAWA, RONALD S
	OCCUPANT UNKNOWN,
967	OKUHAMA, FRED
970	ISAGAWA, ROY K

Target Street	Cross Street	Source
✓	-	Cole Information

MAKANI RD 2005 (Cont'd)

980 KAMIYA, ALAN M
OCCUPANT UNKNOWN,
990 SILVA, JOHN
995 LONG, JESSE M
RAYO, LYDIA C
997 JAEGER, BRIAN D
998 TANAKA, HIROMI
1014 DANIELS, WIEBKE
JOHNSON, ROCKY R
MCGOWAN, BRIAN
OCCUPANT UNKNOWN,
1101 OCCUPANT UNKNOWN,
POEPOE, DONALD
1105 ASATO, CARL S
OCCUPANT UNKNOWN,

Target Street	Cross Street	Source
-	✓	Cole Information

MAKAWAO AVE 2005

15 PUKALANI SUPERETTE
37 EQUITY ONE REAL ESTATE
55 BRIAN STOLLEY MD
JOCELYN CHANG DO
RESNICK RONALD B MD
STOLLEY BRIAN MD
UPCOUNTRY MEDICAL CLINIC
57 PERRIE, RICHARD A
67 FIRST HAWAIIAN BANK
71 CLEMONS, SUE
FISHER, ROGER E
FLEMING, ALBERT G
GILL, VIRGINIA V
JEWETT, GERARDINE A
LEROUX, TAMI
MAES, ALICE
MOTO, BRIAN T
PAGE, JAMES E
PERRY, JOHN R
PINK BY NATURE
SMITH, DAVID F
TAYLOR, WALTER A
THORNHILL, ROBERT L
74 OCCUPANT UNKNOWN,
81 BARKLEY BASTIAN DDS
CAROUSEL COUNTY STORE6
DR JEFF BAKER
THE NATURE CONSERVANCY
UP COUNTRY MEDICAL CENTER
UP COUNTRY PHARMACY SERVICS
UPCOUNTRY MEDICAL CENTER INC / RICHA
111 OCCUPANT UNKNOWN,
133 CENTURY 21 ALL ISLAND
MONIZ, ALLEN W
PARADISE FOUND PROPERTIES INC
137 GALLAGHER, LINDA
147 KAPLAN, R
RIVAS, KEONE
263 SPEERE, CHRIS
320 PAGAOA, ROMEL S
340 BLAKER, MCDONALD
ROSIE B INC
350 AINA, MELVIN S
370 FIETEIRA, CHANTEL
431 LINDSEY, MAURICE K
OCCUPANT UNKNOWN,
441 FORT, JULIA C
442 FOTI, FRANK
444 MAKAWAO BOARDING KENNEL
MAKAWAO BOARDING KENNEL LLC

Target Street	Cross Street	Source
-	✓	Cole Information

MAKAWAO AVE 2005 (Cont'd)

444 MAKAWAO VETERINARY CLINIC
MAUI ANIMAL ALOHA CENTER ANIML
605 HILL, FREDERICK T
LEMPERT, BOBBI N
618 HAILI, DANIELE
640 MACANAS, MARK A
647 CAIRES, RUSSELL P
657 ABROAD ADVENTURE LLC
BLANK, JESSICA S
659 LINDGREN, PATRICK J
660 PAULSEN, DANIELLE
682 OCCUPANT UNKNOWN,
686 CROSSLEY, DON J
692 BARRESI, TOM F
717 NUNEZ, AUDREY S
726 HAYASHI, DEAN A
732 OCCUPANT UNKNOWN,
740 MAHIKOA, P
746 SAKAMOTO, JOHN A
754 MERTENS, WILLIAM
757 DELEON, DUANE
WILSON, JAMES C
764 MALAQUI, ANELA
771 OCCUPANT UNKNOWN,
SWANSON, DUANE A
773 KINORES, HERBERT
775 OCCUPANT UNKNOWN,
780 TAVARES, ELFRIEDE M
790 OCCUPANT UNKNOWN,
791 OCCUPANT UNKNOWN,
795 ENOMOTO, NAOMI N
800 DECOITE, CLARENCE
803 WOJCIESKI, WALTER J
805 MONIZ, JOHN W
812 MIYAHIRA, YOSHIO
815 KAHALEPUNA, ATHENA
825 JONES, TERRY
830 KAHOOKELE, CHARITY K
851 YADAO, VIDALITO P
867 SILVA, J
YOKOYAMA, I J
883 CHING, JONATHAN D
884 BAUMGAERTEL, MARTHIS V
887 BLACKBURN, JOSEPH G
896 OCCUPANT UNKNOWN,
900 OPSAHL, THOMAS G
902 ALIPIO, DEBRA
GOMES, SHELBY H
905 DECAMBRA, MICHAEL P
938 OCCUPANT UNKNOWN,

Target Street	Cross Street	Source
-	✓	Cole Information

MAKAWAO AVE 2005 (Cont'd)

973 PETERSON, KENNETH A
980 JOHNSON, B J
1035 MIYAKE CONCRETE ACCESSORIES INC
1037 INNER OCEAN PUBLISHING INC
1040 ASADA, WAYNE T
1042 MATSUMURA, YUWAO
1043 A AKAMAI EMPLOYMENT SERVICES
ANGIE, YOUNG H
ANTHONYS HAIR SALON
COUNTRY BOUQUETS FLORIST
FIDELITY NATIONAL TITLE INSURANCE CO
HEALTHSOUTH REHAB CENTER OF HI
HOOHANA ENTERPRISES LTD
MAKANI NUI ASSOCIATES LLC
MAKAWAO AUTO PARTS CO
MAKAWAO VIDEO
MAUI SCHOOL OF THERAPEUTIC MASSAGE
PIZZA FRESH MAKAWAO
PROFESSIONAL BUSINESS SERVICES INC
REVELLE THOMAS W CPA MBA
SMITH CONSTRUCTION CONSULTANTS
WELLS FARGO HOME MORTGAGE
1044 FRIAS, KEITH K
1046 COSTA, JUSTIN
1054 TEXEIRA, MARGARET M
1057 ANDERSON, WILLIAM
APPLEWHITE, MATILDA
ARAKAKI, YOSHIO
BOWER, PAT
BRENNER, SHIRLEY B
DAVIS, MELBA L
DIEGO, ISABEL
EHA ELDERLY
GRISWOLD, MYRTLE S
HALE MAHAOLU
HALE, EHA
HARRIS, POLLY B
HESSELT, LU
HOLZER, SYLVIA B
JOHNSON, ROBERT A
LAIRD, LOIS W
MENDELSON, STANLEY M
MILLER, ARLENE
MONTALBO, ROSALIE
OFLYNN, THOMAS P
PYLE, EMILY L
ROBINSON, RUTH
SAITO, NANCY M
SEEGER, BARBARA C
STEWART, ELSIE M

Target Street	Cross Street	Source
-	✓	Cole Information

MAKAWAO AVE 2005 (Cont'd)

1057	SWENSON, SHIRLEY A
	WHITE, NORMA J
	YEAKEY, EMILY H
1100	MINIT STOP
1116	MASUSAKO, MITSUE
1117	NASCIMENTO, HERMAN F
1119	HIU-ARIAN, CATHERINE H
1127	STOPWATCH SPORTSBAR & GRILL
1134	CHINN, LISA K
	CURVES FOR WOMEN
	CURVES FOR WOMEN UPCOUNTRY
	MADISON GALLERY
1135	BACK IN ACTION CHIROPRACTIC INC
	BEST, LAURENCE E
	BLOCH, ANDREW M
	CAROL SCHWARZ
	DAVIS, MARK E
	ERMIDA, MARLENE R
	GILBERTSON, DAVID L
	HAPAS CREATIONS
	INACOM
	INACOM INFORMATION SYSTEMS
	INTELLECTUAL EYE
	JACOBS, KARL
	KARL JACOBS PSYD
	KLEID KENNETH L REALTOR
	KOPELMAN, BOBBIE
	LAI, LESLIE
	LAND EXCHANGE INC
	LAND EXCHANGE REAL ESTATE
	LEAF, AUTUMN
	LEILI, DEBORAH A
	MORGAN, HAP G
	OLA HA HOLISTIC HEALTH CLINIC
	PACIFIC INTEGRATED HEALING ART
	SCHILLACI PIPPO
	SHY, KEVIN D
	TRANSFORMATIONS LLC
	VANALMEN, ARLA M
	VILLANTI, MICHELLE
	WASTE CONVERTERS INTERNATIONAL
1150	BERMAN HAROLD J D INC
1152	A CUT ABOVE SALON
	SALON CHI
	YELLOWBIRD GRAPHIC DESIGN
1156	BAMBOO TECHNOLOGIES LLC
	EARTHWAYS
	HAWAIIAN ART PHOTOGRAPHY LLC
	RANDY JAY BRAUN GALLERY
	WARNER & WARNER ATTORNEY AT LAW

Target Street	Cross Street	Source
-	✓	Cole Information

MAKAWAO AVE 2005 (Cont'd)

1159	MAKAWAO PUBLIC LIBRARY
1160	PARAGON SALON
	VALLEY ISLE PROMOTIONS O
1169	DOWN TO EARTH NATURAL FOODS
1170	NEW WAVES WELLNESS CENTER INC
	STRETCHAWAYPAIN
1188	CASANOVA ITALIAN RESTAURANT AND DELI
1202	POLLIS MEXICAN RESTAURANT INC
1260	ALLEN, BRYON
	BARRETT, NICOLE
	THE MAD MATTER
1265	KAINA, PETER M
1283	VALENTINE, ANDREW E
1294	SAINT JOSEPH CHURCH
1319	FIGUEIRA, LAWRENCE
	OCCUPANT UNKNOWN,
1341	FREITAS, RAYMOND P
1355	GANNON, JOHN J
1359	DOCKTOR, MARY R
1361	DAVIS, FORREST E
1365	GANNON, WILLIAM E
1367	PAIVA, JULIA R
1373	FIGUEIRA, MILES L
1401	IKA, TEVITA
	OCCUPANT UNKNOWN,
1405	PANA, JOSEPH M
1451	SEGUNDO, FRANCIS D
1491	VIVEIROS, VANCE K
1565	ROGERS, BEN H
1674	DWYER, DAVID R
1680	595 LLC
	ANGELOS, TAYLOR
1684	OCCUPANT UNKNOWN,
1705	TAVARES, BEN P
1711	MANN, TED G
1730	BROWN, M R
1745	PERREIRA, JEFFREY K
1746	OCCUPANT UNKNOWN,

Target Street	Cross Street	Source
✓	-	Cole Information

MAKANI RD 2000

21	BENCE, V
	PUHA, D
	SYRON, LESLIE
	VAIRETTA, V
22	AMINE, WAYNE
26	SYLVA, D
32	HERNANDEZ, JIM
39	ENRIQUES, JAMES
40	MIYAHIRA, E
41	PERREIRA, L S
52	KIYABU, AKIRA
78	PACHECO, GEORGE
82	GILBERT, TIP
96	HAZEN, DONNIE
	MIRANDA, LEON C
	NICKENS, KAREN A
	YACOBY, HAZEN S
120	KALAMA SAMUEL E INTER SCHOOL SPEC EDUC
	KALAMA SAMUEL E INTER SCHOOL V PRINCIPALS OFFICE
	KALAMA SAMUEL E INTERMEDIATE SCHOOL BAND ROOM
	KALAMA SAMUEL E INTERMEDIATE SCHOOL CAFETERIA
	KALAMA SAMUEL E INTERMEDIATE SCHOOL COUNSELORS
	KALAMA SAMUEL E INTERMEDIATE SCHOOL HEALTH ROOM
	KALAMA SAMUEL E INTERMEDIATE SCHOOL LIBRARY
	KALAMA SAMUEL E INTERMEDIATE SCHOOL OFFICE
	KALAMA SAMUEL E INTERMEDIATE SCHOOL PCNC OFFICE
	KALAMA SAMUEL E INTERMEDIATE SCHOOL REGISTRAR
181	OCCUPANT UNKNOWN,
198	DECOITE, LOUIS J
	SCLAFANI, JAMES
300	BAISA, ELLIOTT
410	GESCO SALES AND SUPPLY INCORPORATED
	SPRING, G E
417	ARAKAKI, YOSHIO
563	MAUSHARDT, JEAN
640	BUGTONG, M
680	GERNER, HEINZ J
869	OCCUPANT UNKNOWN,
870	OCCUPANT UNKNOWN,
880	HOBBS, J
889	FREITAS, JOHN V
	VACCA, RICHARD
890	SPARKS, KEITH
891	EDMISTON, STEPHEN P
	JABER, L
893	BLEIER, J R
	LAKE, STEVEN
899	DECAMBRA, C
900	UJIIE, DUANE
904	MATSUMURA, T

Target Street	Cross Street	Source
✓	-	Cole Information

MAKANI RD 2000 (Cont'd)

907	MASON, DAVID
	PARKER, DOUGLAS
916	YOSHIKAWA, GLEN
917	UEHARA, JERRY
920	QUITEVIS, C
	TAGUCHI, PATRICK S
925	FIGUEIRA, GUY
926	SAMPSON, MARK
	WYLIE, DEBRA L
929	BARTON, DENNIS
	CORPUZ, F
935	BAISA, FREDDIE
936	FERREIRA, STACIE
940	FERNANDEZ, PAUL
945	MEDEIROS, JOSEPH
	PANEK, GUY
946	FALLONE, KIM E
953	KAPOI, C
960	OCCUPANT UNKNOWN,
967	OKUHAMA, FRED
970	ISAGAWA, ROY K
980	KAMIYA, ALAN
	MANTHEI, RICHARD
997	OTHMAN, SALINA
998	TANAKA, MITZI H
1014	ABC SOFTWARE MODIFICATION DEVELOPMENT & CONSULTING
	BULUSAN, TEODORA
	JOHNSON, ROSE
	MCGOWAN, BRIAN
1101	POEPOE, DONALD
1105	ASATO, CARL S

Target Street	Cross Street	Source
-	✓	Cole Information

MAKAWAO AVE 2000

37	LENGO CONSTRUCTION INCORPORATED
55	RESNICK RONALD B MD UPCOUNTRY MEDICAL CLINIC
	RYAN GARY J DR DC
	UPCOUNTRY MEDICAL CLINIC
57	MOLINA, ISABEL
67	FIRST HAWAIIAN BANK BRANCHES
71	GANNON, TERESA M
	OSHIO, MAKOTO
	PECK, BRIAN M
	SHURILLA, C R
74	RODRIGUES, LEROY
81	ARAK, MANI
	BAKER, JEFF N
	BURNARD, K A
	LOCAL GRILL
	OHANA PHYSICIANS GROUP UPCOUNTRY
	PUKALANI SQUARE BAKER JEFF ND
	PUKALANI SQUARE CLEVER CLIPPERS
	PUKALANI SQUARE CONMY PETER L DDS MS
	PUKALANI SQUARE DRAEGER J H MD
	PUKALANI SQUARE LOCAL GRILL
	PUKALANI SQUARE MANAGEMENT OFFICE
	PUKALANI SQUARE MAUI RESORT RENTALS
	PUKALANI SQUARE PARADISE PHARMACY
	PUKALANI SQUARE RICHARDS DREW DDS INCORPORATED
	PUKALANI SQUARE UPCOUNTRY CHIROPRACTIC
	PUKALANI SQUARE UPCOUNTRY CYCLES LIMITED
	PUKALANI SQUARE UPCOUNTRY DIAGNOSTICS
	PUKALANI SQUARE WELCH KATHLEEN MD
	RICHARDS DREW DDS INCORPORATED
	RICHARDS DREW DDS INCORPORATED BILLING ONLY
	UEOKA DOREEN MD
	UPCOUNTRY DENTAL
	UPCOUNTRY DIAGNOSTICS
133	COHEN, DAN
	PARADISE FOUND PROPERTIES INCORPORATED
135	OCCUPANT UNKNOWN,
137	BAERVELDT, DIANA
	EUROLITE PACIFIC INCORPORATED
	GALLAGHER, L
	MANDE, ROXANNE
	TOWNSENDCARTER, IAN
147	TAM, SING D
232	OCCUPANT UNKNOWN,
340	BLAKER, MCDONAL
	MARMACK, TIMOTHY
431	DECAMBRA, LARRY
441	FORT, JULIA C
442	FORT, J C
	FOTI, FRANK

Target Street	Cross Street	Source
-	✓	Cole Information

MAKAWAO AVE 2000 (Cont'd)

442	MAWAE, SPENCE K
444	MAKAWAO BOARDING KENNEL
	MAUI ANIMAL ALOHA CENTER ANIMAL EDUCATION
	MAUI ANIMAL ALOHA CENTER THERAPEUTIC HORSEBACK RIDING
	MAUI HORSE CENTER
605	VESSER, VINCENT
640	MACANAS, M A
647	COX, ELLEN
657	YADAO, IVAN
659	LINDGREN, PATRICK
660	IMAMURA, A
692	BARRESI, THOMAS F
726	HAYASHI, DEAN
732	RANDALL, DAVID
754	PETROCHENKO, ROSE
757	DELEON, DUANE
	KUNISHI, EDWARD
764	FREITAS, P A
771	LOPEZ, JEFFREY
773	KINORES, HERBERT
775	OCCUPANT UNKNOWN,
780	TAVARES, E M
791	OCCUPANT UNKNOWN,
795	OCCUPANT UNKNOWN,
800	DECOITE, C
803	OCCUPANT UNKNOWN,
805	MONIZ, JOHN W
808	OCCUPANT UNKNOWN,
812	MIYAHIRA, YOSHIO
825	OCCUPANT UNKNOWN,
830	KAHOOKELE, CHARITY
851	YADAO, D
866	OCCUPANT UNKNOWN,
867	YOKOYAMA, I J
887	YOSHIOKA ALAN
	YOSHIOKA, ALAN
896	OCCUPANT UNKNOWN,
900	OPSAHL, THOMAS
902	GOMES, HARRY M
930	EKENBERG, CHRIS M
938	PARSONS, LEONORA
979	MATSUURA, WADE
980	JOHNSON, B J
1033	OCCUPANT UNKNOWN,
1035	MIYAKE CONCRETE ACCESSORIES INCORPORATED
1037	PROFESSIONAL BUSINESS SERVICES INCORPORATED
1043	COLDWELL BANKER ISLAND PROPERTIES
	JACKSON, ANITA
	KYHN, PAULA
	LABASAN, MANUEL

Target Street	Cross Street	Source
-	✓	Cole Information

MAKAWAO AVE 2000 (Cont'd)

1043 MAUI SCHOOL OF THERAPEUTIC MASSAGE
WOODARD, RUTH A
ZIGS SEWING BOUTIQUE
1046 COSTA, JUSTIN
1054 DUNN, EDWARD A
TEXEIRA, EVERETT
1057 ANDERSON, WILLIAM
APPLEWHITE, MATILDA
BOWER, PAT
BRENNER, SHIRLEY
COX, BARBARA J
DIEGO, L
GRISWOLD, MYRTLE
HALE MAHAOLU EHA ELDERLY
HESSELT, LU
HOLZER, S B
JOHNSON, LARA
JONES, MAY A
LAIRD, LOIS W
MENDELSON, STANLEY
MILLER, ARLENE
MONTALBO, ROSALIE
MOORE, ROBERT E
OKINAKA, YUICHI
PYLE, E L
ROBINSON, M
ROBINSON, NEIL
RODRIGUES, E P
SEEGER, B
STEWART, TOMMY
YEAKEY, E
1074 MAKAWAO HONGWANJI MISSION
1100 MAKAWAO 76
1116 MASUSAKO, MITSUE
1117 NASCIMENTO, HERMAN F
1127 STOPWATCH SPORTSBAR & GRILL
1134 VITAL ELAN ART WORLD GALLERY STUDIO
1135 BAILEY, FRANK R
OLA HA HOLISTIC HEALTH CLINIC
1143 LIQUOR SHACK & DELI
1150 BERMAN HAROLD J D INCORPORATED
BERMAN, HAROLD J
1152 IMPORT STORE INCORPORATED THE
LESTER, TAMARA
1156 BEALE, ERIK J
SPA LUNA SCHOOL FOR ESTHETICIANS
1158 VICTORIAN GIFT & BATH BOUTIQUE THE
1160 VALLEY ISLE PROMOTIONS O BABY
WILSON ROBBIE SALON MAKAWAO
1169 DOWN TO EARTH NATURAL FOODS

Target Street	Cross Street	Source
-	✓	Cole Information

MAKAWAO AVE 2000 (Cont'd)

1169 HEALTHYS INCORPORATED CORPORATE OFFICE
1188 AGUILERA, G
CASANOVA ITALIAN RESTAURANT AND DELI
CONTRERAS, LULU S
1202 POLLIS MEXICAN RESTAURANT
1260 ALLEN, BRYON
1265 KAINA, PETER
1283 DEATON, CHARLES H
1294 OCCUPANT UNKNOWN,
1313 MAUI COUNTY PARAMEDICS ASSOCIATION
1319 FIGUEIRA, L
1321 OCCUPANT UNKNOWN,
1341 FREITAS, RAYMOND P
1361 PAIVA, ERIC L
1367 OCCUPANT UNKNOWN,
1373 FIGUEIRA, MILES
1401 PAAHANA, B K
1405 OCCUPANT UNKNOWN,
1451 SEGUNDO, FRANCIS
1491 DILLON, STANLEY
VIVEIROS, M
1565 WRIGHT, GRACE C
1664 OKADA, N
1674 DWYER, DAVID R
1680 MAUI VISIONS VACATIONS
NAND, DEVA
SPALLUTO, TARA G
1705 OCCUPANT UNKNOWN,
1711 TAVARES, RAYMOND
1730 BROWN, M R
1745 PERREIRA, MARY M
8121 PARADISE PHARMACY

Target Street	Cross Street	Source
✓	-	Cole Information

MAKANI RD 1995

16	WELKER, JUDY G
21	AIWOHI, M
	MEYER, TED
26	BROWN, DANIEL
32	GOMES, ANTHONY V JR
	HERNANDEZ, S
	WILHELM, ERNEST K
39	N S DISCO TECH
40	MIYAHIRA, SHOYEI
41	PERREIRA, L S
52	KIYABU, AKIRA
78	PACHECO, GEORGE
80	BOTELHO, DANIEL W
82	ESSER, BILL
	FRIMODT, EINAR
	MAURI, GUUS
	PETRY, TRACI
96	CHANEY, RANDY
	MIRANDA, LEON C
	MONASTERIO, RONALD
120	ADAMS, RENEE
	KALAMA INTERMEDIATE SCHOOL
180	CABRADILLA, TERRY
	KAMA, RANDALL I
	THOMAS, D
198	CABRAL, PETER
	DECOITE, LOUIS J
	KOHHEPP, PAUL
	MAUI FRESH EGGS INC
284	YAMADA, NANCY L
300	BAISA, ELLIOTT
	POOUAHI, D
410	SPRING, G E
640	BUGTONG, M
680	GERNER, HEINZ J
870	KAILI, TIA
880	HOBBS, J
881	JIO, N
889	FREITAS, JOHN V
	VACCA, RICHARD
890	RUST, JAMES P
891	HARADA, FAYE
	VANDERVOORT, PETER
893	BEGLEY, GARY
	CROCKETT, CHERYL
	LAKE, STEVEN
	STEVES AUTO QUICK FIX INC
899	CABRAL, CHARLES J
	DECAMBRA, C
900	UJIIE, DUANE

Target Street	Cross Street	Source
✓	-	Cole Information

MAKANI RD 1995 (Cont'd)

904	MATSUMURA, T
907	TEICHEIRA, V
917	UEHARA, JERRY
920	TAGUCHI, PATRICK S
925	FIGUEIRA, GUY
926	SAMPSON, MARK
	WYLIE, D L
929	CORPUZ, F
935	BAISA, FREDDIE
945	KUNI, RUTH
	MEDEIROS, JOSEPH
	PANEK, GUY
957	YOGI, SHERMAN
960	ISAGAWA, SACHIO
967	OKUHAMA, FRED
970	ISAGAWA, ROY K
980	KAMIYA, ALAN
998	TANAKA, MITZI
1014	BULUSAN, F M
	JOHNSON, ROCKY
1105	ASATO, CARL S

Target Street	Cross Street	Source
-	✓	Cole Information

MAKAWAO AVE 1995

15	US POST OFFICE
55	RYAN CHIROPRACTIC OFFICES
	UPCOUNTRY MEDICAL CLINIC
67	FIRST HAWAIIAN BANK
74	BISHOP, TED
81	BEHRMANN, B B
	CAL PACIFIC TRAVEL
	CLEVER CLIPPERS
	CONOLLY, SALLY
	DAVID B DERRIS DDS
	DREW RICHARDS DDS
	HAWAII FAMILY THERAPY CTR
	HEALTH ASSOCIATES
	KAHALEPALAOA FOOD & BEVERAGE
	KATHLEEN WELCH MD
	LAWRENCE R ALLMAN PHD
	MAUI NETWORK LTD
	MAUI REALTY CO
	NATURE CONSERVANCY
	PARADISE PHARMACY
	PIZZA STOP
	RICHARD PERRIE MD
	S & S DESIGN CONSULTANTS
	SMITH CONSTRUCTION CONSULTANTS
	UPCOUNTRY DIAGNOSTICS
	UPCOUNTRY MEDICAL CTR
	UPCOUNTRY PANTRY
111	SANTOS, BRAS J
133	CINEMAGIC VIDEO
135	MAKAWAO FIRE DEPT
137	KOKUBUN, MARK
	PAGAN, E
147	NELSEN, SUSAN J
	TAMSING, D
186	R G HAIR FASHIONS UNLTD
311	UPCOUNTRY FISHERY REPAIR SHOP
340	BLAKER, MACK
	MARMACK, TIMOTHY
350	AINA, MELVIN
370	FEITEIRA, JAMES
431	CHIAPPE, JOHN JR
	DECAMBRA, LARRY JR
434	KATHRYN E RICE DVM
	MAUI HORSE CTR
	W T CLEGHORN DVM
	W T CLEGHORN DVM INC
442	FORT, J C
	FOTI, FRANK
444	MAAC
605	ANDERSON, ROGER E

Target Street	Cross Street	Source
-	✓	Cole Information

MAKAWAO AVE 1995 (Cont'd)

618	FERGUSON, CAROL A
	HAILI, ALAN N
640	MACANAS, M A
647	COX, ELLEN J
657	YADAO, IVAN
659	LINDGREN, PATRICK
660	IMAMURA, TSURUO
686	JENKINS, PAUL
692	KUTZ, BOB
	STEWART, J L
717	AQUINDE, AUDREY S
726	HAYASHI, DEAN
732	TUITELE, J
746	SAKAMOTO, JOHN M
749	HARADA, STEPHEN T
754	PETROCHENKO, ROSE
757	DELEON, DUANE
771	ELENEKI, HELEN
	EUBANKS, PERCY M
780	TAVARES, RAYMOND
790	DECOITE, C
791	WOJCIESKI, WALTER III
803	YAMAGUCHI, SUZANNE
805	MONIZ, JOHN W
808	REZENTS, ERNEST H
812	MIYAHIRA, YOSHIO
830	KAHOOKELE, RAY
866	TATSUMI, YASUO
	ZEHM, GILLIES
867	YOKOYAMA, PAUL
900	OPSAHL, THOMAS
902	GOMES, HARRY M
905	NISHIDA, ZENZO
938	PARSONS, KEITH
980	JOHNSON, B J
	SIERRA, PETER O
1000	OKIMOTO, GLENN
1024	SCOTT, OLLY
1033	COVIC CONSTRUCTION CO
	COVIC REALTY INC
1037	BANKRUPTCY LAW CLINIC
1043	ALUNA SKIN CTR
	BAKER, JEFF
	COUNTRY BOUQUETS
	IN STITCHES
	ISLAND BOOKKEEPING
	JEFF BAKER
	MAKAWAO ACE HARDWARE
	MAKAWAO VIDEO
	NAILS BY LISA

Target Street	Cross Street	Source
-	✓	Cole Information

MAKAWAO AVE 1995 (Cont'd)

1043	PIZZA FRESH
1046	COSTA, JUSTIN
1054	DUNN, EDWARD A
	TEXEIRA, M
1058	GOMES, LELAND A
1075	US POST OFFICE
1100	MAKAWAO 76
1116	MASUSAKO, MASAMI
1117	NASCIMENTO, HERMAN F
1135	A JANNA FINEBERG PHD
	ALFREDS HAIR SALON
	ANURAG MASSAGE THERAPIST
	DEAN, EDWARD
	FINEBERG, A J
	HADIQA
	LEONARD, DAVID
	OLA HA HOLISTIC SPINAL CLINIC
	SCHUTZ, JUSTIN
1143	LIQUOR SHACK
1148	UPCOUNTRY EQUIPMENT RENTALS
1156	CABRAL, MICHAEL
1158	HAWAIIAN HAWGS MOTORCYCLE INC
1159	MAKAWAO PUBLIC LIBRARY
1160	DOWN TO EARTH FOODS
1168	MAKAWAO FEED & GARDEN INC
1170	SCHONEWILL, DEBRA K
1188	BROWN, OHELO
	CASANOVA ITALIAN RESTAURANT
	SARTO, GIOVAN G
1202	POLLIS MEXICAN RESTAURANT
1260	BAKER, KEVIN F
	COPELAND, RICHARD
	ERLE, P
	RUSSELL, J
1265	KAINA, PETER III
1283	DEATON, CHARLES H
1294	ST JOSEPHS CHURCH
1319	FIGUEIRA, MILES
1341	FREITAS, RAYMOND P
1359	FREITAS, MARY R
1361	FREITAS, DONNA M
	PAIVA, ERIC
1373	GOUVEIA, M C
1401	LOVE, DIANA
	PAAHANA, B K
1405	BROWN, C
1435	NAKOA, JOHN K
1491	VIVEIROS, SAM
1674	NAPOLITANO, CYNTHIA
1680	AHURA DESIGNS

Target Street	Cross Street	Source
-	✓	Cole Information

MAKAWAO AVE 1995 (Cont'd)

1680	HAWAIIAN CUSTOM HOMES
	ROSS, RICHARD
1705	TAVARES, JOHN P
1730	BROWN, M R
1746	HOKANA, D

Target Street	Cross Street	Source
✓	-	Cole Information

MAKANI RD 1992

16	PIPPENGER, POLLY
21	BAKER, MARILYN
26	HAZZARD, L
32	GOMES, ANTHONY V JR
	WILHELM, ERNEST K
40	MIYAHIRA, SHOYEI
41	CAVIN, M
	PERREIRA, L S
52	KIYABU, WATARU
80	BROWN, J
82	CRAMER, T
	MAURI, GUUS
96	CHANEY, RANDY
	HANSEN, K
	MONASTERIO, RONALD
	REDEKER, MARK
120	ADAMS, RENEE
180	CABRADILLA, TERRY
198	CABRAL, PETER
	DECOITE, LOUIS J
212	FAYE, CARRIE
300	BAISA, ELLIOTT
410	SPRING, G E
417	ARAKAKI, YOSHIO
430	SCHAEFFER, MIMI
640	BUGTONG, M
680	GERNER, HEINZ J
860	HENRIQUES, M Z
880	HOBBS, J
881	JIO, N
889	FREITAS, JOHN V
	VACCA, RICHARD
890	PORTILLO, PAUL R
	RUSSELL, CHARLIE
	RUST, JAMES P
891	VANDERVOORT, PETER
893	PAHUKOA, R JR
898	GOUVEIA, HAROLD S
899	DECAMBRA, C
900	UJIIE, NORBERT N
904	MATSUMURA, T
907	NISHIDA, SHERRY
917	UEHARA, JERRY
920	TAGUCHI, PATRICK S
	WOMACK, J
925	DEPONTE, C
926	CARY, RAY
	WEST, E
929	CORPUZ, F
935	BAISA, FREDDIE

Target Street	Cross Street	Source
✓	-	Cole Information

MAKANI RD 1992 (Cont'd)

936	FERNANDEZ, ALBERT
945	KUNI, RUTH
	MEDEIROS, JOSEPH
	PANEK, GUY
953	CORDEIRO, S
	GAINES, G
	SILVA, C T
957	YOGI, SHERMAN
960	ISAGAWA, SACHIO
961	NAJITA, S
967	OKUHAMA, FRED
970	ISAGAWA, ROY K
998	TANAKA, MITZI
1014	BULUSAN, F M
	JOHNSON, DUNCAN
1105	ASATO, CARL S

Target Street	Cross Street	Source
-	✓	Cole Information

MAKAWAO AVE 1992

81	BEHRMANN, B R
	RICHARDS, DREW
137	LEE, M
147	TAMSING, D
340	BLAKER, MACK
	MARMACK, TIMOTHY
350	AINA, LYDELL
370	FEITEIRA, JAMES
	ODOSHI, RAMON
431	DECAMBRA, LARRY JR
441	DECAMBRA, MARY R
442	FORT, J C
	FOTI, FRANK
605	CIRRINCIONE, JOSEPH
	MASTERS, P
618	FERGUSON, CAROL A
	HAILI, ALAN N
647	COX, E J
659	LINDGREN, PATRICK
660	IMAMURA, TSURUO
686	JENKINS, PAUL
	MARIYA, D
692	KUTZ, BOB
	LARUSSO, P
717	AQUINDE, AUDREY S
726	HAYASHI, DEAN
746	SAKAMOTO, JOHN M
749	AUGUST, RAYMOND
	COUTURE, STEVEN
754	PETROCHENKO, ROSE
759	BUTCHART, TRACY
771	ELENEKI, HELEN
775	HOLDER, ROBERT
	HOLT, REDA A
780	TAVARES, RAYMOND
800	DECOITE, C
803	WOJCIESKI, S
805	MONIZ, JOHN W
808	DECOITE, GEORGE S
	REZENTS, ERNEST H
812	MIYAHIRA, YOSHIO
823	HYDER, PETER
825	COELHO, JAMES
830	KAHOOKELE, RAY
851	PASALO, RONNIE
866	OWEN, L
	SPILLER, ROBERT
	ZEHM, GILLIES
867	YOKOYAMA, PAUL
900	OPSAHL, THOMAS

Target Street	Cross Street	Source
-	✓	Cole Information

MAKAWAO AVE 1992 (Cont'd)

902	GOMES, HARRY M
905	NISHIDA, ZENZO
930	LEMUS, JOHN
938	PARSONS, KEITH
980	JOHNSON, B J
	SIERRA, PETER O
1000	OKIMOTO, GLENN
1024	GARRETT, DUANE S
	SCOTT, OLLY
1042	MATSUMURA, YUWAO
1046	COSTA, JUSTIN
1054	DUNN, EDWARD A
1058	LAMPIASI, NADINE
1116	MASUSAKO, MASAMI
1117	NASCIMENTO, HERMAN F
1119	KOA, MOLLY
1156	CABRAL, MICHAEL
1160	HEALING, HUI
1260	ERLE, P
	SHEPHERD, EDWARD
	TRESAN, BEVERLY
1265	CODY, WILLIAM
1283	DEATON, CHARLES H
1319	FIGUEIRA, L
	FIGUEIRA, MILES
1359	FREITAS, MARY R
1367	PAIVA, BILL S
	PAIVA, ERIC
1373	GOUVEIA, M C
1401	HILL, JERRY
	PAAHANA, B K
1405	BROWN, C
1435	NAKOA, JOHN K
1451	STEELE, OTHO
1491	HILL, LORNA B
	VIVEIROS, SAM
1669	HAILI, JACOB R
1680	HATARIA, P
	ROSS, RICHARD
1705	TAVARES, JOHN P
1730	BROWN, M R
1745	PERREIRA, ROBERT
1746	BROWN, C
81105	ARREDONDO, SABINO
81204	EVANS, J C
1135204	FINEBERG, A J

Kalama Intermediate School
120 MAKANI RD
MAKAWAO, HI 96768

Inquiry Number: 7410984.8
August 08, 2023

EDR Building Permit Report

Target Property and Adjoining Properties

EDR® Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

EDR Building Permit Report: Search Documentation

8/08/23

Site Name:
Kalama Intermediate
120 MAKANI RD
MAKAWAO, HI 96768

EDR Inquiry # 7410984.8

Client Name:
Element Environmental , LLC
98-030 Hekaha Street
Aiea, HI 96701-0000

Contact: Angie Peltier

Search Documentation

DATA GAP

The complete collection of Building Permit data available to EDR has been searched, and as of 8/08/23, EDR does not have access to building permits in the city where your target property is located (MAKAWAO, HI).

EDR BUILDING PERMIT REPORT

About This Report

The EDR Building Permit Report provides a practical and efficient method to search building department records for indications of environmental conditions. Generated via a search of municipal building permit records gathered from more than 1,600 cities nationwide, this report will assist you in meeting 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 (E1527 - 21), or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

Building permit data can be used to identify current and/or former operations and structures/features of environmental concern. The data can provide information on a target property and adjoining properties such as the presence of underground storage tanks, pump islands, sumps, drywells, etc., as well as information regarding water, sewer, natural gas, electrical connection dates, and current/former septic tanks.

ASTM and EPA Requirements

ASTM E1527 - 21 lists building department records as a "standard historical source," as detailed in § 8.3.4.7: "Building Department Records - The term building department records means those records of the local government in which the property is located indicating permission of the local government to construct, alter, or demolish improvements on the property." ASTM also states that "Uses in the area surrounding the property shall be identified in the report, but this task is required only to the extent that this information is revealed in the course of researching the property itself."

EPA's Standards and Practices for All Appropriate Inquires (AAI) states: "§312.24: Reviews of historical sources of information. (a) Historical documents and records must be reviewed for the purposes of achieving the objectives and performance factors of §312.20(e) and (f). Historical documents and records may include, but are not limited to, aerial photographs, fire insurance maps, building department records, chain of title documents, and land use records."

Methodology

EDR has developed the EDR Building Permit Report through our partnership with BuildFax, the nation's largest repository of building department records. BuildFax collects, updates, and manages building department records from local municipal governments. The database now includes 30 million permits, on more than 10 million properties across 1,600 cities in the United States.

The EDR Building Permit Report comprises local municipal building permit records, gathered directly from local jurisdictions, including both target property and adjoining properties. Years of coverage vary by municipality. Data reported includes (where available): date of permit, permit type, permit number, status, valuation, contractor company, contractor name, and description.

Incoming permit data is checked at seven stages in a regimented quality control process, from initial data source interview, to data preparation, through final auditing. To ensure the building department is accurate, each of the seven quality control stages contains, on average, 15 additional quality checks, resulting in a process of approximately 105 quality control "touch points."

For more information about the EDR Building Permit Report, please contact your EDR Account Executive at (800) 352-0050.

EDR® Environmental Data Resources Inc

BUILD FAX PROPERTY HISTORY

APPENDIX D

Vapor Encroachment Screening

Kalama Intermediate School
120 MAKANI RD
MAKAWAO, HI 96768

Inquiry Number: 7410984.2s
October 10, 2023

EDR Vapor Encroachment Screen

Prepared using EDR's Vapor Encroachment Worksheet

EDR® Environmental Data Resources Inc

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

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

EXECUTIVE SUMMARY

A search of available environmental records was conducted by EDR. The report was designed to assist parties seeking to meet the search requirements of the ASTM Standard Practice for Assessment of Vapor Encroachment into Structures on Property Involved in Real Estate Transactions (E 2600).

STANDARD ENVIRONMENTAL RECORDS	Default Area of Concern (Miles)*	property	1/10	> 1/10
Lists of Federal NPL (Superfund) sites	1.0	0	0	0
Lists of Federal Delisted NPL sites	1.0	0	0	0
Lists of Federal sites subject to CERCLA removals and CERCLA orders	0.5	0	0	0
Lists of Federal CERCLA sites with NFRAP	0.5	0	0	0
Lists of Federal RCRA facilities undergoing Corrective Action	1.0	0	0	0
Lists of Federal RCRA TSD facilities	0.5	0	0	0
Lists of Federal RCRA generators	0.25	0	0	0
Federal institutional controls / engineering controls registries	0.5	0	0	0
Federal ERNS list	0.001	0	0	-
Lists of state- and tribal (Superfund) equivalent sites	not searched	-	-	-
Lists of state- and tribal hazardous waste facilities	1.0	0	0	4
Lists of state and tribal landfills and solid waste disposal facilities	0.5	0	0	0
Lists of state and tribal leaking storage tanks	0.5	0	0	1
Lists of state and tribal registered storage tanks	0.25	0	0	1
State and tribal institutional control / engineering control registries	0.5	0	0	0
Lists of state and tribal voluntary cleanup sites	0.5	0	0	0
Lists of state and tribal brownfield sites	0.5	0	0	0

ADDITIONAL ENVIRONMENTAL RECORDS				
Local Brownfield lists	0.5	0	0	0
Local Lists of Landfill / Solid Waste Disposal Sites	0.5	0	0	0
Local Lists of Hazardous waste / Contaminated Sites	0.001	0	0	-
Local Lists of Registered Storage Tanks	not searched	-	-	-
Local Land Records	0.001	0	0	-
Records of Emergency Release Reports	0.001	0	0	-
Other Ascertainable Records	1.0	0	0	2

EDR HIGH RISK HISTORICAL RECORDS				
EDR Exclusive Records	1.0	0	0	0
Exclusive Recovered Govt. Archives	0.001	0	0	-

EXECUTIVE SUMMARY

EDR RECOVERED GOVERNMENT ARCHIVES				
EDR Exclusive Records	1.0	0	0	0
Exclusive Recovered Govt. Archives	0.001	0	0	-

*The Default Area of Concern may be adjusted by the environmental professional using experience and professional judgement. Each category may include several databases, and each database may have a different distance. A list of individual databases is provided at the back of this report.

EXECUTIVE SUMMARY

TARGET PROPERTY INFORMATION

ADDRESS

KALAMA INTERMEDIATE SCHOOL
120 MAKANI RD
MAKAWAO, HI 96768

COORDINATES

Latitude (North):	20.850891 - 20° 51' 3.2080078"
Longitude (West):	156.320367 - 156° 19' 13.344727"
Elevation:	1542 ft. above sea level

EXECUTIVE SUMMARY

SEARCH RESULTS

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

STANDARD ENVIRONMENTAL RECORDS

Name	Address	Dist/Dir	Map ID	Page
MECO POLE-MOUNT TRANSFORMER NO. 6159 SPILLS: SPILLS SHWS: SHWS	1130 NAKUI ST	1/3 - 1/2 ENE	▲ 1	8
MINIT STOP MAKAWAO UST: UST Financial Assurance: Financial Assurance LUST: LUST	1100 MAKAWAO AVE	1/3 - 1/2 ENE	▲ 2	10
MECO TRANSFORMER 3633 SHWS: SHWS	1159 MAKAWAO AVE	1/2 - 1 ENE	▲ 3	16
MAKAWAO ELEMENTARY SCHOOL SHWS: SHWS	3542 BALDWIN AVENUE	1/2 - 1 NE	▲ A5	18
MECO POLE-MOUNT TRANSFORMER NO. 6259 SHWS: SHWS	BALDWIN AVE	1/2 - 1 NE	▲ A6	21

ADDITIONAL ENVIRONMENTAL RECORDS

Name	Address	Dist/Dir	Map ID	Page
MECO POLE-MOUNT TRANSFORMER NO. 6159 SPILLS: SPILLS SHWS: SHWS	1130 NAKUI ST	1/3 - 1/2 ENE	▲ 1	8
MINIT STOP MAKAWAO UST: UST Financial Assurance: Financial Assurance LUST: LUST	1100 MAKAWAO AVE	1/3 - 1/2 ENE	▲ 2	10
MAKAWAO STATION HOSPITAL FUDS: FUDS	Not Reported	1/2 - 1 NNE	◆ 4	17

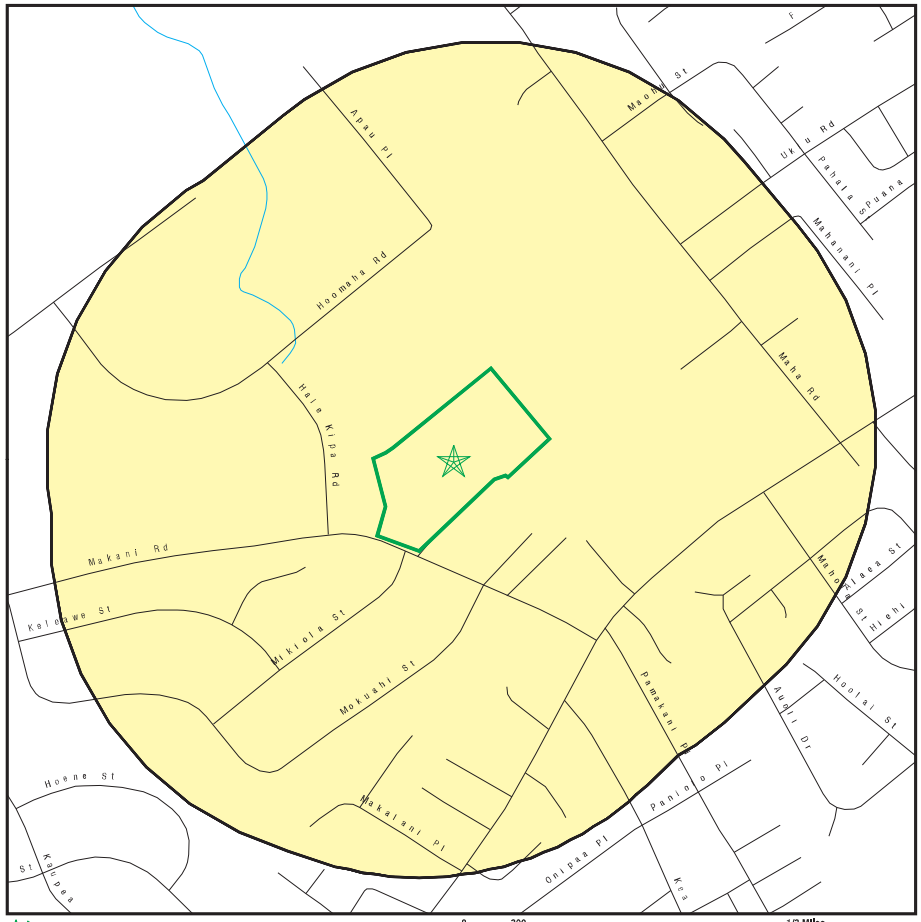
EDR HIGH RISK HISTORICAL RECORDS

Name	Address	Dist/Dir	Map ID	Page
Not Reported				

EDR RECOVERED GOVERNMENT ARCHIVES

Name	Address	Dist/Dir	Map ID	Page
Not Reported				

PRIMARY MAP - 7410984.2S



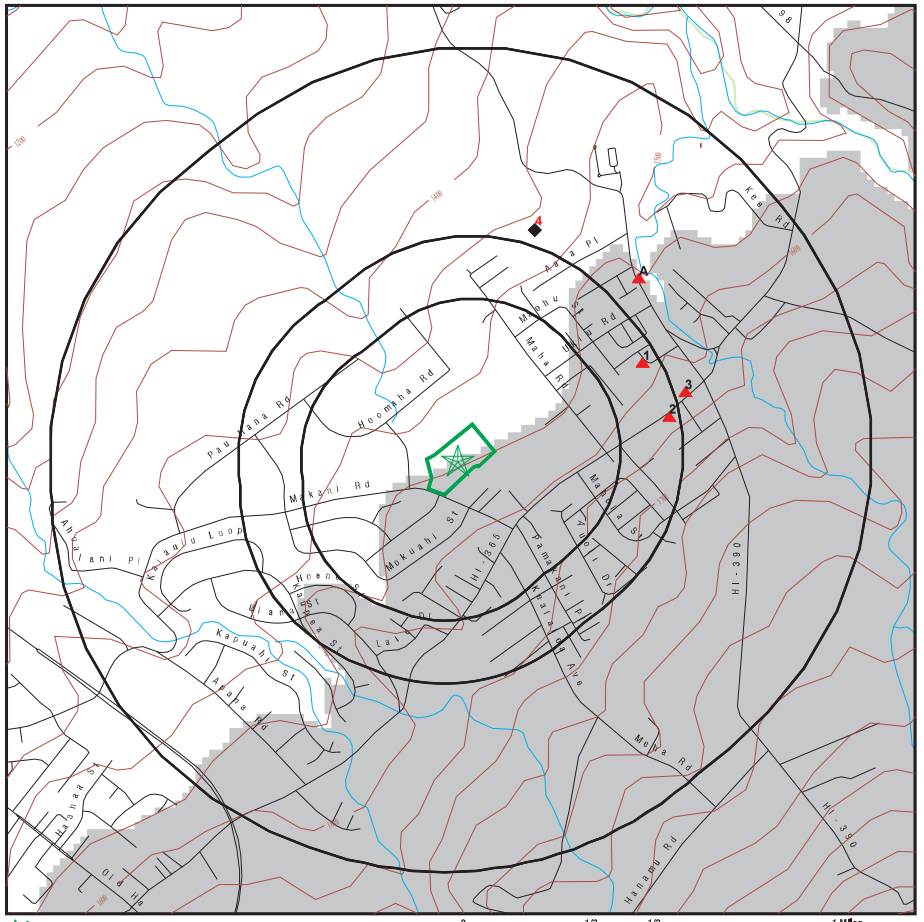
Target Property
Sites at elevations higher than or equal to the target property
Sites at elevations lower than the target property
Manufactured Gas Plants
National Priority List Sites
Dept. Defense Sites

Indian Reservations BIA
Special Flood Hazard Area (1%)
0.2% Annual Chance Flood Hazard

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: Kalama Intermediate School ADDRESS: 120 MAKANI RD MAKAWAO HI 96768 LAT/LONG: 20.850891 / 156.320367	CLIENT: Element Environmental , LLC CONTACT: Angie Peltier INQUIRY #: 7410984.2s DATE: August 08, 2023 12:02 pm

SECONDARY MAP - 7410984.2S



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
Special Flood Hazard Area (1%)
0.2% Annual Chance Flood Hazard
National Wetland Inventory
State Wetlands
Upgradient Area

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: Kalama Intermediate School ADDRESS: 120 MAKANI RD MAKAWAO HI 96768 LAT/LONG: 20.850891 / 156.320367	CLIENT: Element Environmental , LLC CONTACT: Angie Peltier INQUIRY #: 7410984.2s DATE: August 08, 2023 12:01 pm

LEGEND

FACILITY NAME FACILITY ADDRESS, CITY, ST, ZIP			EDR SITE ID NUMBER
◆ MAP ID#	Direction Distance Range Relative Elevation	(Distance feet / miles) Feet Above Sea Level	ASTM 2600 Record Sources found in this report. Each database searched has been assigned to one or more categories. For detailed information about categorization, see the section of the report Records Searched and Currency.
Worksheet: **Comments:** Comments may be added on the online Vapor Encroachment Worksheet.			

DATABASE ACRONYM: Applicable categories (A hoverbox with database description).

MECO POLE-MOUNT TRANSFORMER NO. 6159 1130 NAKUI ST, MAKAWAO, HI, 96768			S113230498
▲ 1	ENE 1/3 - 1/2 45 ft. Higher Elevation	(2397 ft. / 0.454 mi.) 1587 ft. Above Sea Level	Lists of state- and tribal hazardous waste facilities Records of Emergency Release Reports

Worksheet:

Impact on Target Property: VEC does not exist

Comments: The source is cross-gradient. The distance between the source and the target property is greater than the critical distance plus a factor to account for plume width.
The source is cross-gradient. The distance between the source and the target property is greater than the critical distance plus a factor to account for plume width.

Conditions:

Both COC & PHC: YES

Groundwater Flow Gradient:

Topographically: YES

AQUIFLOW: YES

Crossgradient: YES

Experience: YES

Geological Attributes - Physical Barrier:

Impermeable soil layer: YES

Geological Attributes - Soil Geology:

Silty-clay, low-permeability soil: YES

SHWS: Lists of state- and tribal hazardous waste facilities

Name:	MECO POLE-MOUNT TRANSFORMER NO. 6159
Address:	1130 NAKUI ST
City,State,Zip:	MAKAWAO, HI 96768
Supplemental Location:	Not Reported
Island:	Maui
Environmental Interest:	MECO Pole-Mount Transformer No. 6159

MECO POLE-MOUNT TRANSFORMER NO. 6159, 1130 NAKUI ST, MAKAWAO, HI 96768 (Continued)

HID Number:	Not Reported
Facility Registry Identifier:	Not Reported
Lead Agency:	HEER Office
Program:	State
Project Manager:	Amelia Hicks
Hazard Priority:	NFA
Potential Hazards And Controls:	No Hazard
Island:	Maui
SDAR Environmental Interest Name:	MECO Pole-Mount Transformer No. 6159
HID Number:	Not Reported
Facility Registry Identifier:	Not Reported
Lead Agency:	HEER Office
Potential Hazard And Controls:	No Hazard
Priority:	NFA
Assessment:	Response Necessary
Response:	Response Complete
Nature of Contamination:	Not Reported
Nature of Residual Contamination:	PAH detected at <0.1 mg/kg; PCB detected at <0.51 mg/kg; TPH detected at 620 mg/kg
Use Restrictions:	No Hazard Present For Unrestricted Residential Use
Engineering Control:	No Engineering Control Required
Description of Restrictions:	Not Reported
Institutional Control:	Not Reported
Within Designated Areawide Contamination:	Not Reported
Site Closure Type:	No Further Action Letter - Unrestricted Residential Use
Document Date:	05/10/2012
Document Number:	2012-290-AH
Document Subject:	No Further Action Determination for MECO Pad-Mount Transformer No 15683 (Incident ID 20091125-1412), Pole-Mount Transformer No 6159 (Incident ID 20080626-1149), No 6748 (Incident ID 20091203-1124) and No 9353 (Incident ID 20080320-1427)
Project Manager:	Amelia Hicks
Contact Information:	(808) 586-4249 2385 Waimano Home Rd, Pearl City, HI 96782
Facility ID:	2584
Location Description:	1130 Nakui St
Is Public:	True
Update On:	05/30/2019
Latitude:	20.854637
Longitude:	-156.31276
Aliases:	Not Reported
Status Name:	NFA

SPILLS: Records of Emergency Release Reports

Name:	MECO POLE-MOUNT TRANSFORMER NO. 6159
Address:	1130 NAKUI ST
Address 2:	Not Reported
City,State,Zip:	MAKAWAO, HI 96768
Island:	Maui
Supplemental Loc. Text:	Not Reported
Case Number:	20080626-1149
Facility Registry ID:	Not Reported

MECO POLE-MOUNT TRANSFORMER NO. 6159, 1130 NAKUI ST, MAKAWAO, HI 96768 (Continued)

HID Number:	Not Reported
Lead and Program:	HEER EP&R
ER:	None
Less Or Greater Than:	Not Reported
Units:	MECO Pole-Mount Transformer No. 6159
Activity Type:	Response
Activity Lead:	Liz Galvez
Assignment End Date:	Not Reported
Result:	Refer to SDAR
File Under:	MECO-Kahului Baseyard
Substances:	Transformer Oil
Quanity:	1
Units:	Gallons
Reported Date:	Not Reported
Release Date:	Not Reported
Release Duration:	Not Reported
Media:	Not Reported
Waterbody:	Not Reported
Summary:	Not Reported
Is Noteworthy for Reports:	Not Reported
Is the Release a Fugitive Dumping:	Not Reported
Tax Map Key:	Not Reported
Assigned SOSC:	Not Reported
Notified Agencies:	Not Reported
Response Measures Taken:	Not Reported
Incident Report Number:	Not Reported
Coordination Needed:	Not Reported
Tier II Facility:	Not Reported
RMP:	Not Reported
Follow-up Received On:	Not Reported
Cost Recovery:	Not Reported
Invoice To:	Not Reported
Closed Date:	Not Reported
Comments:	Not Reported
Latitude:	Not Reported
Longitude:	Not Reported

MINIT STOP MAKAWAO 1100 MAKAWAO AVE, MAKAWAO, HI, 96768			U001236824
▲ 2	ENE 1/3 - 1/2	(2481 ft. / 0.47 mi.)	Lists of state and tribal leaking storage tanks Lists of state and tribal registered storage tanks
	98 ft. Higher Elevation	1640 ft. Above Sea Level	Other Ascertainable Records

Worksheet:

Impact on Target Property: VEC does not exist

Comments: The source is cross-gradient. The distance between the source and the target property is greater than the critical distance plus a factor to account for plume width.
The source is cross-gradient. The distance between the source and the target property is greater than the critical distance plus a factor to account for plume width.
The source is cross-gradient. The distance between the source and the target property is greater than the critical distance plus a factor to account for

plume width.

Conditions:

Petroleum Hydrocarbon Chemicals of Concern: YES

Groundwater Flow Gradient:

Topographically: YES

AQUIFLOW: YES

Crossgradient: YES

Experience: YES

Geological Attributes - Physical Barrier:

Impermeable soil layer: YES

Geological Attributes - Soil Geology:

Silty-clay, low-permeability soil: YES

LUST: Lists of state and tribal leaking storage tanks

Name:	MINIT STOP MAKAWAO
Address:	1100 MAKAWAO AVE
City,State,Zip:	MAKAWAO, HI 96768
Facility ID:	9-502183
Facility Status:	Site Cleanup Completed (NFA)
Facility Status Date:	11/29/1999
Release ID:	000035
Project Officer:	Renato Maniulit

UST: Lists of state and tribal registered storage tanks

Name:	MINIT STOP MAKAWAO
Address:	1100 MAKAWAO AVE
City,State,Zip:	MAKAWAO, HI 96768
Facility ID:	9-502183
Owner:	MAUI PETROLEUM
Owner Address:	385 Hukilike St.
Owner City,St,Zip:	Makawao, 96768 96768
Latitude:	20.852322999999998
Longitude:	-156.31171900000001
Horizontal Reference Datum Name:	NAD83
Horizontal Collection Method Name:	GPS
Tank ID:	1
Date Installed:	02/01/1996
Tank Status:	**Currently In Use**
Date Closed:	Not Reported
Tank Capacity:	10000
Substance:	Gasohol
Name:	MINIT STOP MAKAWAO
Address:	1100 MAKAWAO AVE
City,State,Zip:	MAKAWAO, HI 96768
Tank ID:	1
Date Installed:	02/01/1996

MINIT STOP MAKAWAO, 1100 MAKAWAO AVE, MAKAWAO, HI 96768 (Continued)

Tank Status:	**Currently In Use**
Date Closed:	Not Reported
Tank Capacity:	10000
Substance:	Gasohol
Name:	MINIT STOP MAKAWAO
Address:	1100 MAKAWAO AVE
City,State,Zip:	MAKAWAO, HI 96768
Tank ID:	2
Date Installed:	02/01/1996
Tank Status:	**Currently In Use**
Date Closed:	Not Reported
Tank Capacity:	10000
Substance:	Gasohol
Name:	MINIT STOP MAKAWAO
Address:	1100 MAKAWAO AVE
City,State,Zip:	MAKAWAO, HI 96768
Tank ID:	2
Date Installed:	02/01/1996
Tank Status:	**Currently In Use**
Date Closed:	Not Reported
Tank Capacity:	10000
Substance:	Gasohol
Name:	MINIT STOP MAKAWAO
Address:	1100 MAKAWAO AVE
City,State,Zip:	MAKAWAO, HI 96768
Tank ID:	R-1
Date Installed:	05/20/1990
Tank Status:	**Permanently Out of Use**
Date Closed:	03/01/1994
Tank Capacity:	3000
Substance:	Gasoline
Name:	MINIT STOP MAKAWAO
Address:	1100 MAKAWAO AVE
City,State,Zip:	MAKAWAO, HI 96768
Tank ID:	R-1
Date Installed:	05/20/1990
Tank Status:	**Permanently Out of Use**
Date Closed:	03/01/1994
Tank Capacity:	3000
Substance:	Gasoline
Name:	MINIT STOP MAKAWAO
Address:	1100 MAKAWAO AVE
City,State,Zip:	MAKAWAO, HI 96768
Tank ID:	R-2
Date Installed:	05/20/1990

MINIT STOP MAKAWAO, 1100 MAKAWAO AVE, MAKAWAO, HI 96768 (Continued)

Tank Status:	**Permanently Out of Use**
Date Closed:	03/01/1994
Tank Capacity:	3000
Substance:	Gasoline
Name:	MINIT STOP MAKAWAO
Address:	1100 MAKAWAO AVE
City,State,Zip:	MAKAWAO, HI 96768
Tank ID:	R-2
Date Installed:	05/20/1990
Tank Status:	**Permanently Out of Use**
Date Closed:	03/01/1994
Tank Capacity:	3000
Substance:	Gasoline
Name:	MINIT STOP MAKAWAO
Address:	1100 MAKAWAO AVE
City,State,Zip:	MAKAWAO, HI 96768
Tank ID:	R-3
Date Installed:	05/21/1990
Tank Status:	**Permanently Out of Use**
Date Closed:	03/01/1994
Tank Capacity:	6000
Substance:	Gasoline
Name:	MINIT STOP MAKAWAO
Address:	1100 MAKAWAO AVE
City,State,Zip:	MAKAWAO, HI 96768
Tank ID:	R-3
Date Installed:	05/21/1990
Tank Status:	**Permanently Out of Use**
Date Closed:	03/01/1994
Tank Capacity:	6000
Substance:	Gasoline
Name:	MINIT STOP MAKAWAO
Address:	1100 MAKAWAO AVE
City,State,Zip:	MAKAWAO, HI 96768
Tank ID:	R-4
Date Installed:	05/21/1990
Tank Status:	**Permanently Out of Use**
Date Closed:	03/01/1994
Tank Capacity:	550
Substance:	Kerosene
Name:	MINIT STOP MAKAWAO
Address:	1100 MAKAWAO AVE
City,State,Zip:	MAKAWAO, HI 96768
Tank ID:	R-4
Date Installed:	05/21/1990

MINIT STOP MAKAWAO, 1100 MAKAWAO AVE, MAKAWAO, HI 96768 (Continued)

Tank Status:	**Permanently Out of Use**
Date Closed:	03/01/1994
Tank Capacity:	550
Substance:	Kerosene

HI Financial Assurance: Other Ascertainable Records

Name:	MINIT STOP MAKAWAO
Address:	1100 MAKAWAO AVE
City,State,Zip:	MAKAWAO, HI 96768
Alt Facility ID:	9-502183
Tank Id:	R-1
Tank Status:	Permanently Out of Use
FRTYPE:	Insurance
Expiration Date:	11/01/2012
FR Archive:	True

Name:	MINIT STOP MAKAWAO
Address:	1100 MAKAWAO AVE
City,State,Zip:	MAKAWAO, HI 96768
Alt Facility ID:	9-502183
Tank Id:	R-4
Tank Status:	Permanently Out of Use
FRTYPE:	Insurance
Expiration Date:	11/01/2012
FR Archive:	True

Name:	MINIT STOP MAKAWAO
Address:	1100 MAKAWAO AVE
City,State,Zip:	MAKAWAO, HI 96768
Alt Facility ID:	9-502183
Tank Id:	R-3
Tank Status:	Permanently Out of Use
FRTYPE:	Insurance
Expiration Date:	11/01/2012
FR Archive:	True

Name:	MINIT STOP MAKAWAO
Address:	1100 MAKAWAO AVE
City,State,Zip:	MAKAWAO, HI 96768
Alt Facility ID:	9-502183
Tank Id:	R-2
Tank Status:	Permanently Out of Use
FRTYPE:	Insurance
Expiration Date:	11/01/2012
FR Archive:	True

Name:	MINIT STOP MAKAWAO
Address:	1100 MAKAWAO AVE
City,State,Zip:	MAKAWAO, HI 96768
Alt Facility ID:	9-502183
Tank Id:	2

MINIT STOP MAKAWAO, 1100 MAKAWAO AVE, MAKAWAO, HI 96768 (Continued)

Tank Status:	Currently In Use
FRTYPE:	Insurance
Expiration Date:	11/01/2012
FR Archive:	True

Name:	MINIT STOP MAKAWAO
Address:	1100 MAKAWAO AVE
City,State,Zip:	MAKAWAO, HI 96768
Alt Facility ID:	9-502183
Tank Id:	1
Tank Status:	Currently In Use
FRTYPE:	Insurance
Expiration Date:	11/01/2012
FR Archive:	True

Name:	MINIT STOP MAKAWAO
Address:	1100 MAKAWAO AVE
City,State,Zip:	MAKAWAO, HI 96768
Alt Facility ID:	9-502183
Tank Id:	R-1
Tank Status:	Permanently Out of Use
FRTYPE:	Insurance
Expiration Date:	07/01/2022
FR Archive:	False

Name:	MINIT STOP MAKAWAO
Address:	1100 MAKAWAO AVE
City,State,Zip:	MAKAWAO, HI 96768
Alt Facility ID:	9-502183
Tank Id:	R-2
Tank Status:	Permanently Out of Use
FRTYPE:	Insurance
Expiration Date:	07/01/2022
FR Archive:	False

Name:	MINIT STOP MAKAWAO
Address:	1100 MAKAWAO AVE
City,State,Zip:	MAKAWAO, HI 96768
Alt Facility ID:	9-502183
Tank Id:	1
Tank Status:	Currently In Use
FRTYPE:	Insurance
Expiration Date:	07/01/2022
FR Archive:	False

Name:	MINIT STOP MAKAWAO
Address:	1100 MAKAWAO AVE
City,State,Zip:	MAKAWAO, HI 96768
Alt Facility ID:	9-502183
Tank Id:	R-3
Tank Status:	Permanently Out of Use
FRTYPE:	Insurance

MINIT STOP MAKAWAO, 1100 MAKAWAO AVE, MAKAWAO, HI 96768 (Continued)

Expiration Date:	07/01/2022
FR Archive:	False
Name:	MINIT STOP MAKAWAO
Address:	1100 MAKAWAO AVE
City,State,Zip:	MAKAWAO, HI 96768
Alt Facility ID:	9-502183
Tank Id:	R-4
Tank Status:	Permanently Out of Use
FRTYPE:	Insurance
Expiration Date:	07/01/2022
FR Archive:	False
Name:	MINIT STOP MAKAWAO
Address:	1100 MAKAWAO AVE
City,State,Zip:	MAKAWAO, HI 96768
Alt Facility ID:	9-502183
Tank Id:	2
Tank Status:	Currently In Use
FRTYPE:	Insurance
Expiration Date:	07/01/2022
FR Archive:	False

MECO TRANSFORMER 3633 1159 MAKAWAO AVE, MAKAWAO, HI, 96768			S110061658
▲ 3	ENE 1/2 - 1	(2785 ft. / 0.527 mi.)	Lists of state- and tribal hazardous waste facilities
	86 ft. Higher Elevation	1628 ft. Above Sea Level	

Worksheet:

Impact on Target Property: VEC does not exist

Comments: The source is cross-gradient. The distance between the source and the target property is greater than the critical distance plus a factor to account for plume width.
The source is cross-gradient. The distance between the source and the target property is greater than the critical distance plus a factor to account for plume width.

Conditions:

Chemicals of Concern: YES

Groundwater Flow Gradient:

Topographically: YES

AQUIFLOW: YES

Crossgradient: YES

Experience: YES

Geological Attributes - Physical Barrier:

Impermeable soil layer: YES

Geological Attributes - Soil Geology:

Silty-clay, low-permeability soil: YES

SHWS: Lists of state- and tribal hazardous waste facilities

Name:	MECO TRANSFORMER 3633

MECO TRANSFORMER 3633, 1159 MAKAWAO AVE, MAKAWAO, HI 96768 (Continued)

Address:	1159 MAKAWAO AVE
City,State,Zip:	MAKAWAO, HI 96768
Supplemental Location:	Makawao Library Site
Island:	Maui
Environmental Interest:	MECO Transformer 3633
HID Number:	Not Reported
Facility Registry Identifier:	Not Reported
Lead Agency:	HEER Office
Program:	State
Project Manager:	Richard Palmer
Hazard Priority:	NFA
Potential Hazards And Controls:	No Hazard
Island:	Maui
SDAR Environmental Interest Name:	MECO Transformer 3633
HID Number:	Not Reported
Facility Registry Identifier:	Not Reported
Lead Agency:	HEER Office
Potential Hazard And Controls:	No Hazard
Priority:	NFA
Assessment:	Response Necessary
Response:	Self Implementing TSCA Cleanup
Nature of Contamination:	Found: PCBs in soil
Nature of Residual Contamination:	Not Reported
Use Restrictions:	No Hazard Present For Unrestricted Residential Use
Engineering Control:	Not Reported
Description of Restrictions:	Not Reported
Institutional Control:	Not Reported
Within Designated Areawide Contamination:	Not Reported
Site Closure Type:	No Further Action Letter - Unrestricted Residential Use
Document Date:	02/02/2011
Document Number:	2011-062-PC
Document Subject:	Pad-Mount Transformer 3633 PCB Release
Project Manager:	Richard Palmer
Contact Information:	(808) 586-4249 2385 Waimano Home Rd, Pearl City, HI 96782
Facility ID:	570
Location Description:	1159 Makawao Ave
Is Public:	True
Update On:	12/10/2020
Latitude:	20.8537
Longitude:	-156.311
Aliases:	MECO Pad-Mount Transformer No. 3633
Status Name:	NFA

MAKAWAO STATION HOSPITAL Not Reported, MAKAWAO, HI,			1024902029
◆ 4	NNE 1/2 - 1	(2852 ft. / 0.54 mi.)	Other Ascertainable Records
	81 ft. Lower Elevation	1461 ft. Above Sea Level	

Worksheet:

Impact on Target Property: VEC does not exist

Comments: The source is not within the area of concern, based on its distance, gradient and suspected chemical of concern.
The source is cross-gradient. The distance between the source and the target property is greater than the critical distance plus a factor to account for plume width.

Conditions:

Chemicals of Concern: YES

Groundwater Flow Gradient:

Topographically: YES

AQUIFLOW: YES

Crossgradient: YES

Experience: YES

Geological Attributes - Physical Barrier:

Impermeable soil layer: YES

Geological Attributes - Soil Geology:

Silty-clay, low-permeability soil: YES

FUDS: Other Ascertainable Records

EPA Region:	09
Installation ID:	HI99799F394400
Congressional District Number:	2
Name:	MAKAWAO STATION HOSPITAL
FUDS Number:	H09HI0206
City:	MAKAWAO
State:	HI
County:	MAUI
Object ID:	4040
USACE Division:	POD
USACE District:	Honolulu District (POH)
Status:	Properties without projects
Current Owner:	STATE: STATE STATE OF HAWAII, DEPARTMENT OF EDUCATION
EMS Map Link:	https://fudsportal.usace.army.mil/ems/inventory/map?id=55755
Eligibility:	Eligible
Has Projects:	No
NPL Status:	Not Reported
Project Required:	No
Feature Description:	The Army converted 3 existing school buildings into a mess hall, morgue, and nurses quarters. A large red cross was placed on the rook of one building. Site was also known as the 22nd hospital, 8th statsion hospital, and Makawao School. The site was returned to Territory of Hawaii shortly before the Japanese surrender. Site is still a school. One building containing the morgue was demo lished. A site visit on May 1, 1992 did not reveal any environmental hazards.
Latitude:	20.85972222
Longitude:	-156.31722222

MAKAWAO ELEMENTARY SCHOOL 3542 BALDWIN AVENUE, MAKAWAO, HI, 96768			S121405971
▲ A5	NE 1/2 - 1	(2974 ft. / 0.563 mi.)	Lists of state- and tribal hazardous waste facilities
	30 ft. Higher Elevation	1572 ft. Above Sea Level	

Worksheet:

Impact on Target Property: VEC does not exist

Comments: The source is not within the area of concern, based on its distance, gradient and suspected chemical of concern.

Conditions:

Chemicals of Concern: YES

Groundwater Flow Gradient:

Topographically: YES

AQUIFLOW: YES

Crossgradient: YES

Experience: YES

Geological Attributes - Physical Barrier:

Impermeable soil layer: YES

Geological Attributes - Soil Geology:

Silty-clay, low-permeability soil: YES

SHWS: Lists of state- and tribal hazardous waste facilities

Name:	FUDS MAKAWAO STATION HOSPITAL
Address:	3542 BALDWIN AVE
City,State,Zip:	MAKAWAO, HI 96768
Supplemental Location:	H09HI020600
Island:	Maui
Environmental Interest:	FUDS Makawao Station Hospital
HID Number:	Not Reported
Facility Registry Identifier:	Not Reported
Lead Agency:	HEER Office
Program:	DOD-IRP
Project Manager:	Not Reported
Hazard Priority:	Low
Potential Hazards And Controls:	Hazard Undetermined
Island:	Maui
SDAR Environmental Interest Name:	FUDS Makawao Station Hospital
HID Number:	Not Reported
Facility Registry Identifier:	Not Reported
Lead Agency:	HEER Office
Potential Hazard And Controls:	Hazard Undetermined
Priority:	Low
Assessment:	Assessment Ongoing
Response:	Not Reported
Nature of Contamination:	Not Reported
Nature of Residual Contamination:	Not Reported
Use Restrictions:	Undetermined
Engineering Control:	Not Reported
Description of Restrictions:	Not Reported
Institutional Control:	Not Reported
Within Designated Areawide Contamination:	Not Reported
Site Closure Type:	Not Reported
Document Date:	Not Reported

MAKAWAO ELEMENTARY SCHOOL, 3542 BALDWIN AVENUE, MAKAWAO, HI 96768 (Continued)

Document Number:	Not Reported
Document Subject:	Not Reported
Project Manager:	Not Reported
Contact Information:	(808) 586-4249 2385 Waimano Home Rd, Pearl City, HI 96782
Facility ID:	1927
Location Description:	3542 Baldwin Ave
Is Public:	True
Update On:	04/28/2022
Latitude:	20.85665
Longitude:	-156.313692
Aliases:	22nd Station Hospital, 8th Station Hospital, FUDS No. H09HI020600, Makawao School
Status Name:	Assessment
Name:	MAKAWAO ELEMENTARY SCHOOL
Address:	3542 BALDWIN AVENUE
City,State,Zip:	MAKAWAO, HI 96768
Supplemental Location:	Not Reported
Island:	Maui
Environmental Interest:	Not Reported
HID Number:	Not Reported
Facility Registry Identifier:	Not Reported
Lead Agency:	HEER Office
Program:	PA/SI
Project Manager:	Not Reported
Hazard Priority:	Not Reported
Potential Hazards And Controls:	Not Reported
Island:	Maui
SDAR Environmental Interest Name:	Not Reported
HID Number:	Not Reported
Facility Registry Identifier:	Not Reported
Lead Agency:	HEER Office
Potential Hazard And Controls:	Not Reported
Priority:	Not Reported
Assessment:	Not Reported
Response:	Not Reported
Nature of Contamination:	Not Reported
Nature of Residual Contamination:	Not Reported
Use Restrictions:	Not Reported
Engineering Control:	Not Reported
Description of Restrictions:	Not Reported
Institutional Control:	Not Reported
Within Designated Areawide Contamination:	Not Reported
Site Closure Type:	Not Reported
Document Date:	Not Reported
Document Number:	Not Reported
Document Subject:	Not Reported
Project Manager:	Not Reported
Contact Information:	Not Reported
Facility ID:	3197
Location Description:	3542 Baldwin Avenue

MAKAWAO ELEMENTARY SCHOOL, 3542 BALDWIN AVENUE, MAKAWAO, HI 96768 (Continued)

Is Public:	True
Update On:	10/21/2022
Latitude:	20.856717
Longitude:	-156.313881
Aliases:	Not Reported
Status Name:	Site Discovery

MECO POLE-MOUNT TRANSFORMER NO. 6259
BALDWIN AVE, MAKAWAO, HI, 96768 S126282974

▲ A6	NE 1/2 - 1	(3083 ft. / 0.584 mi.)	Lists of state- and tribal hazardous waste facilities
	24 ft. Higher Elevation	1566 ft. Above Sea Level	

Worksheet:

Impact on Target Property: VEC does not exist

Comments: The source is cross-gradient. The distance between the source and the target property is greater than the critical distance plus a factor to account for plume width.

Conditions:

Chemicals of Concern: YES

Groundwater Flow Gradient:

Topographically: YES

AQUIFLOW: YES

Crossgradient: YES

Experience: YES

Geological Attributes - Physical Barrier:

Impermeable soil layer: YES

Geological Attributes - Soil Geology:

Silty-clay, low-permeability soil: YES

SHWS: Lists of state- and tribal hazardous waste facilities

Name:	MECO POLE-MOUNT TRANSFORMER NO. 6259
Address:	BALDWIN AVE
City,State,Zip:	MAKAWAO, HI 96768
Supplemental Location:	Not Reported
Island:	Maui
Environmental Interest:	Not Reported
HID Number:	Not Reported
Facility Registry Identifier:	Not Reported
Lead Agency:	HEER Office
Program:	State
Project Manager:	Not Reported
Hazard Priority:	Not Reported
Potential Hazards And Controls:	Not Reported
Island:	Maui
SDAR Environmental Interest Name:	Not Reported
HID Number:	Not Reported
Facility Registry Identifier:	Not Reported

MAP FINDINGS

MECO POLE-MOUNT TRANSFORMER NO. 6259, BALDWIN AVE, MAKAWAO, HI 96768 (Continued)

Lead Agency:	HEER Office
Potential Hazard And Controls:	Not Reported
Priority:	Not Reported
Assessment:	Not Reported
Response:	Not Reported
Nature of Contamination:	Not Reported
Nature of Residual Contamination:	Not Reported
Use Restrictions:	Not Reported
Engineering Control:	Not Reported
Description of Restrictions:	Not Reported
Institutional Control:	Not Reported
Within Designated Areawide Contamination:	Not Reported
Site Closure Type:	Not Reported
Document Date:	Not Reported
Document Number:	Not Reported
Document Subject:	Not Reported
Project Manager:	Not Reported
Contact Information:	Not Reported
Facility ID:	2485
Location Description:	Baldwin Ave
Is Public:	True
Update On:	02/14/2020
Latitude:	20.857818
Longitude:	-156.312967
Aliases:	MECO Pole Mount Transformer 6259
Status Name:	NFA

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
ENVIRONMENTAL RECORDS						
Federal NPL site list						
US	NPL	National Priority List	EPA	06/22/2023	07/06/2023	07/24/2023
US	Proposed NPL	Proposed National Priority List Sites	EPA	06/22/2023	07/06/2023	07/24/2023
US	NPL LIENS	Federal Superfund Liens	EPA	10/15/1991	02/02/1994	03/30/1994
Federal CERCLIS list						
US	SEMS	Superfund Enterprise Management System	EPA	06/22/2023	07/06/2023	07/24/2023
Federal RCRA CORRACTS facilities list						
US	CORRACTS	Corrective Action Report	EPA	03/06/2023	03/09/2023	03/20/2023
Federal RCRA TSD facilities list						
US	RCRA-TSDF	RCRA - Treatment, Storage and Disposal	Environmental Protection Agency	03/06/2023	03/09/2023	03/20/2023
Federal RCRA generators list						
US	RCRA-LQG	RCRA - Large Quantity Generators	Environmental Protection Agency	03/06/2023	03/09/2023	03/20/2023
US	RCRA-SQG	RCRA - Small Quantity Generators	Environmental Protection Agency	03/06/2023	03/09/2023	03/20/2023
US	RCRA-VSQG	RCRA - Very Small Quantity Generators (Formerly Conditionall	Environmental Protection Agency	03/06/2023	03/09/2023	03/20/2023
Federal institutional controls / engineering controls registries						
US	LUCIS	Land Use Control Information System	Department of the Navy	05/25/2023	05/31/2023	07/24/2023
US	US ENG CONTROLS	Engineering Controls Sites List	Environmental Protection Agency	05/22/2023	05/23/2023	07/24/2023
US	US INST CONTROLS	Institutional Controls Sites List	Environmental Protection Agency	05/22/2023	05/23/2023	07/24/2023
Federal ERNS list						
US	ERNS	Emergency Response Notification System	National Response Center, United States Coast	03/20/2023	03/21/2023	05/30/2023
State and tribal - equivalent CERCLIS						
HI	SHWS	Sites List	Department of Health	11/22/2022	03/07/2023	05/24/2023
State and tribal landfill / solid waste disposal						
HI	SWF/LF	Permitted Landfills in the State of Hawaii	Department of Health	03/22/2023	03/29/2023	06/13/2023
State and tribal leaking storage tank lists						
HI	LUST	Leaking Underground Storage Tank Database	Department of Health	02/21/2023	03/01/2023	05/19/2023
US	INDIAN LUST R8	Leaking Underground Storage Tanks on Indian Land	EPA Region 8	04/19/2023	05/09/2023	07/14/2023
US	INDIAN LUST R10	Leaking Underground Storage Tanks on Indian Land	EPA Region 10	04/20/2023	05/09/2023	07/14/2023
US	INDIAN LUST R5	Leaking Underground Storage Tanks on Indian Land	EPA, Region 5	04/14/2023	05/09/2023	07/14/2023
US	INDIAN LUST R6	Leaking Underground Storage Tanks on Indian Land	EPA Region 6	04/26/2023	05/09/2023	07/14/2023
US	INDIAN LUST R9	Leaking Underground Storage Tanks on Indian Land	Environmental Protection Agency	04/19/2023	05/09/2023	07/14/2023
US	INDIAN LUST R7	Leaking Underground Storage Tanks on Indian Land	EPA Region 7	04/25/2023	05/09/2023	07/14/2023
US	INDIAN LUST R4	Leaking Underground Storage Tanks on Indian Land	EPA Region 4	04/20/2023	05/09/2023	07/14/2023
US	INDIAN LUST R1	Leaking Underground Storage Tanks on Indian Land	EPA Region 1	04/20/2023	05/09/2023	07/14/2023

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
State and tribal registered storage tank lists						
HI	UST	Underground Storage Tank Database	Department of Health	02/21/2023	03/01/2023	05/19/2023
US	INDIAN UST R4	Underground Storage Tanks on Indian Land	EPA Region 4	04/20/2023	05/09/2023	07/14/2023
US	INDIAN UST R10	Underground Storage Tanks on Indian Land	EPA Region 10	04/20/2023	05/09/2023	07/14/2023
US	INDIAN UST R8	Underground Storage Tanks on Indian Land	EPA Region 8	04/20/2023	05/09/2023	07/14/2023
US	INDIAN UST R9	Underground Storage Tanks on Indian Land	EPA Region 9	04/19/2023	05/09/2023	07/14/2023
US	INDIAN UST R6	Underground Storage Tanks on Indian Land	EPA Region 6	04/26/2023	05/09/2023	07/14/2023
US	INDIAN UST R5	Underground Storage Tanks on Indian Land	EPA Region 5	04/14/2023	05/09/2023	07/14/2023
US	INDIAN UST R1	Underground Storage Tanks on Indian Land	EPA, Region 1	04/20/2023	05/09/2023	07/14/2023
US	INDIAN UST R7	Underground Storage Tanks on Indian Land	EPA Region 7	04/25/2023	05/09/2023	07/14/2023
US	FEMA UST	Underground Storage Tank Listing	FEMA	03/08/2023	03/09/2023	05/30/2023
State and tribal institutional control / engineering control registries						
HI	ENG CONTROLS	Engineering Control Sites	Department of Health	04/17/2019	05/21/2019	05/30/2019
HI	INST CONTROL	Sites with Institutional Controls	Department of Health	04/17/2019	05/21/2019	05/30/2019
State and tribal voluntary cleanup sites						
US	INDIAN VCP R7	Voluntary Cleanup Priority Lisitng	EPA, Region 7	03/20/2008	04/22/2008	05/19/2008
HI	VCP	Voluntary Response Program Sites	Department of Health	11/22/2022	03/07/2023	05/24/2023
US	INDIAN VCP R1	Voluntary Cleanup Priority Listing	EPA, Region 1	07/27/2015	09/29/2015	02/18/2016
State and tribal Brownfields sites						
HI	BROWNFIELDS	Brownfields Sites	Department of Health	11/22/2022	03/07/2023	05/24/2023
Other Records						
US	CONSENT	Superfund (CERCLA) Consent Decrees	Department of Justice, Consent Decree Library	03/31/2023	04/20/2023	07/10/2023
US	ROD	Records Of Decision	EPA	06/22/2023	07/06/2023	07/24/2023
US	LIENS 2	CERCLA Lien Information	Environmental Protection Agency	06/22/2023	07/06/2023	07/24/2023
US	DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations	EPA, Region 9	01/12/2009	05/07/2009	09/21/2009
US	US AIRS MINOR	Air Facility System Data	EPA	10/12/2016	10/26/2016	02/03/2017
US	US AIRS (AFS)	Aerometric Information Retrieval System Facility Subsystem (	EPA	10/12/2016	10/26/2016	02/03/2017
US	EPA WATCH LIST	EPA WATCH LIST	Environmental Protection Agency	08/30/2013	03/21/2014	06/17/2014
US	FUSRAP	Formerly Utilized Sites Remedial Action Program	Department of Energy	03/03/2023	03/03/2023	06/09/2023
US	LEAD SMELTER 2	Lead Smelter Sites	American Journal of Public Health	04/05/2001	10/27/2010	12/02/2010
US	COAL ASH EPA	Coal Combustion Residues Surface Impoundments List	Environmental Protection Agency	01/12/2017	03/05/2019	11/11/2019
US	2020 COR ACTION	2020 Corrective Action Program List	Environmental Protection Agency	09/30/2017	05/08/2018	07/20/2018
US	US HIST CDL	National Clandestine Laboratory Register	Drug Enforcement Administration	05/22/2023	05/23/2023	07/10/2023
US	PCB TRANSFORMER	PCB Transformer Registration Database	Environmental Protection Agency	09/13/2019	11/06/2019	02/10/2020
US	SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing	Environmental Protection Agency	07/30/2021	02/03/2023	02/10/2023
US	US FIN ASSUR	Financial Assurance Information	Environmental Protection Agency	03/13/2023	03/21/2023	05/30/2023
US	COAL ASH DOE	Steam-Electric Plant Operation Data	Department of Energy	12/31/2021	04/14/2023	07/10/2023
US	LEAD SMELTER 1	Lead Smelter Sites	Environmental Protection Agency	06/22/2023	07/06/2023	07/24/2023
US	Delisted NPL	National Priority List Deletions	EPA	06/22/2023	07/06/2023	07/24/2023
US	SEMS-ARCHIVE	Superfund Enterprise Management System Archive	EPA	06/22/2023	07/06/2023	07/24/2023
US	RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated	Environmental Protection Agency	03/06/2023	03/09/2023	03/20/2023
US	HMIRS	Hazardous Materials Information Reporting System	U.S. Department of Transportation	03/19/2023	03/21/2023	05/30/2023

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	DOT OPS	Incident and Accident Data	Department of Transporation, Office of Pipeli	01/02/2020	01/28/2020	04/17/2020
US	US CDL	Clandestine Drug Labs	Drug Enforcement Administration	05/22/2023	05/23/2023	07/10/2023
US	US BROWNFIELDS	A Listing of Brownfields Sites	Environmental Protection Agency	04/06/2023	04/13/2023	04/19/2023
US	DOD	Department of Defense Sites	USGS	06/07/2021	07/13/2021	03/09/2022
US	FEDLAND	Federal and Indian Lands	U.S. Geological Survey	04/02/2018	04/11/2018	11/06/2019
US	FUDS	Formerly Used Defense Sites	U.S. Army Corps of Engineers	05/08/2023	05/16/2023	07/10/2023
US	UMTRA	Uranium Mill Tailings Sites	Department of Energy	08/30/2019	11/15/2019	01/28/2020
US	ODI	Open Dump Inventory	Environmental Protection Agency	06/30/1985	08/09/2004	09/17/2004
US	MINES VIOLATIONS	MSHA Violation Assessment Data	DOL, Mine Safety & Health Admi	04/03/2023	04/04/2023	06/09/2023
US	US MINES	Mines Master Index File	Department of Labor, Mine Safety and Health A	05/01/2023	05/24/2023	07/24/2023
US	US MINES 2	Ferrous and Nonferrous Metal Mines Database Listing	USGS	01/07/2022	02/24/2023	05/17/2023
US	US MINES 3	Active Mines & Mineral Plants Database Listing	USGS	04/14/2011	06/08/2011	09/13/2011
US	PRP	Potentially Responsible Parties	EPA	06/22/2023	07/06/2023	07/24/2023
US	TRIS	Toxic Chemical Release Inventory System	EPA	12/31/2021	02/16/2023	05/02/2023
US	TSCA	Toxic Substances Control Act	EPA	12/31/2020	06/14/2022	03/24/2023
US	FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA/Office of Prevention, Pesticides and Toxi	04/09/2009	04/16/2009	05/11/2009
US	FTTS INSP	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA	04/09/2009	04/16/2009	05/11/2009
US	HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	HIST FTTS INSP	FIFRA/TSCA Tracking System Inspection & Enforcement Case Lis	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	SSTS	Section 7 Tracking Systems	EPA	04/17/2023	04/18/2023	07/10/2023
US	ICIS	Integrated Compliance Information System	Environmental Protection Agency	11/18/2016	11/23/2016	02/10/2017
US	PADS	PCB Activity Database System	EPA	03/20/2023	04/04/2023	06/09/2023
US	MLTS	Material Licensing Tracking System	Nuclear Regulatory Commission	03/15/2023	03/21/2023	05/30/2023
US	RADINFO	Radiation Information Database	Environmental Protection Agency	07/01/2019	07/01/2019	09/23/2019
US	FINDS	Facility Index System/Facility Registry System	EPA	05/04/2023	05/25/2023	07/24/2023
US	RAATS	RCRA Administrative Action Tracking System	EPA	04/17/1995	07/03/1995	08/07/1995
US	RMP	Risk Management Plans	Environmental Protection Agency	04/27/2022	05/04/2022	05/10/2022
US	BRS	Biennial Reporting System	EPA/NTIS	12/31/2021	03/09/2023	03/20/2023
US	PWS	Public Water System Data	EPA	12/17/2013	01/09/2014	10/15/2014
US	INDIAN RESERV	Indian Reservations	USGS	12/31/2014	07/14/2015	01/10/2017
US	INDIAN ODI	Report on the Status of Open Dumps on Indian Lands	Environmental Protection Agency	12/31/1998	12/03/2007	01/24/2008
US	IHS OPEN DUMPS	Open Dumps on Indian Land	Department of Health & Human Serivces, Indian	04/01/2014	08/06/2014	01/29/2015
US	ABANDONED MINES	Abandoned Mines	Department of Interior	03/17/2023	03/17/2023	05/30/2023
HI	AIRS	List of Permitted Facilities	Department of Health	06/28/2022	06/30/2022	09/14/2022
HI	CDL	Clandestine Drug Lab Listing	Department of Health	08/04/2010	09/10/2010	10/22/2010
HI	DRYCLEANERS	Permitted Drycleaner Facility Listing	Department of Health	01/23/2023	02/23/2023	05/12/2023
HI	PFAS	PFAS Contamination Site Listing	Department of Health	02/25/2022	02/28/2022	03/10/2022
HI	Financial Assurance	Financial Assurance Information Listing	Department of Health	03/30/2023	04/04/2023	06/14/2023
HI	LEAD	Lead Inspection Listing	Department of Health	03/07/2023	03/09/2023	05/24/2023
HI	SPILLS	Release Notifications	Department of Health	05/30/2023	05/31/2023	07/12/2023
HI	SPILLS 90	SPILLS90 data from FirstSearch	FirstSearch	03/10/2012	01/03/2013	02/11/2013
HI	UIC	Underground Injection Wells Listing	Department of Health	02/07/2013	02/12/2013	04/09/2013
HI	SWRCY	Solid Waste Recycling Information	Department of Health	09/14/2022	09/28/2022	10/05/2022
US	PFAS TSCA	PFAS Manufacture and Imports Information	Environmental Protection Agency	03/30/2023	03/30/2023	06/09/2023
US	ECHO	Enforcement & Compliance History Information	Environmental Protection Agency	03/25/2023	03/31/2023	06/09/2023
US	PFAS NPL	Superfund Sites with PFAS Detections Information	Environmental Protection Agency	06/07/2023	06/08/2023	06/09/2023
US	PFAS TRIS	List of PFAS Added to the TRI	Environmental Protection Agency	06/07/2023	06/08/2023	06/09/2023

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	DOCKET HWC	Hazardous Waste Compliance Docket Listing	Environmental Protection Agency	05/06/2021	05/21/2021	08/11/2021
US	MINES MRDS	Mineral Resources Data System	USGS	08/23/2022	11/22/2022	02/28/2023
US	PFAS WQP	Ambient Environmental Sampling for PFAS	Environmental Protection Agency	03/30/2023	03/30/2023	05/02/2023
US	PFAS RCRA MANIFEST	PFAS Transfers Identified In the RCRA Database Listing	Environmental Protection Agency	03/30/2023	03/30/2023	05/02/2023
US	AQUEOUS FOAM NRC	Aqueous Foam Related Incidents Listing	Environmental Protection Agency	04/27/2023	04/27/2023	05/02/2023
US	PFAS ATSDR	PFAS Contamination Site Location Listing	Department of Health & Human Services	06/24/2020	03/17/2021	11/08/2022
US	FUELS PROGRAM	EPA Fuels Program Registered Listing	EPA	05/15/2023	05/17/2023	07/10/2023
US	UXO	Unexploded Ordnance Sites	Department of Defense	11/09/2021	10/20/2022	01/10/2023
US	PFAS FEDERAL SITES	Federal Sites PFAS Information	Environmental Protection Agency	03/30/2023	03/30/2023	04/07/2023
US	PFAS ECHO FIRE TRAINING	Facilities in Industries that May Be Handling PFAS Listing	Environmental Protection Agency	03/30/2023	03/30/2023	04/03/2023
US	PFAS PART 139 AIRPORT	All Certified Part 139 Airports PFAS Information Listing	Environmental Protection Agency	03/30/2023	03/30/2023	04/03/2023
US	PFAS ECHO	Facilities in Industries that May Be Handling PFAS Listing	Environmental Protection Agency	03/30/2023	03/30/2023	04/03/2023
US	PFAS NPDES	Clean Water Act Discharge Monitoring Information	Environmental Protection Agency	03/30/2023	03/30/2023	04/07/2023
US	FEDERAL FACILITY	Federal Facility Site Information listing	Environmental Protection Agency	03/26/2023	03/28/2023	05/30/2023

HISTORICAL USE RECORDS

US	EDR MGP	EDR Proprietary Manufactured Gas Plants	EDR, Inc.			
US	EDR Hist Auto	EDR Exclusive Historical Auto Stations	EDR, Inc.			
US	EDR Hist Cleaner	EDR Exclusive Historical Cleaners	EDR, Inc.			
HI	RGA HWS	Recovered Government Archive State Hazardous Waste Facilitie	Department of Health		07/01/2013	01/08/2014
HI	RGA LF	Recovered Government Archive Solid Waste Facilities List	Department of Health		07/01/2013	01/17/2014
HI	RGA LUST	Recovered Government Archive Leaking Underground Storage Tan	Department of Health		07/01/2013	01/03/2014

STREET AND ADDRESS INFORMATION

APPENDIX E

Qualifications of Environmental Professionals

John Ellis, Field Technician

element environmental llc
environmental · engineering · water resources

John A. Ellis
Field Technician

EDUCATION:

B.S., Oregon State University, In progress

SPECIALIZED TRAINING:

OSHA 40-hour Initial HAZWOPER Training
C4 HAZWOPER Supervisor
OSHA 30-hour Construction Safety
40-hour Construction Safety Hazard Awareness
ASTM E1527 Standard Practice for Environmental Site Assessment: Phase I Environmental Site Assessment Process Certification
Asbestos Worker Certification
Asbestos Inspector Certification
Lead-Based Paint Activities Certification
XRF Safety Training Certification
First Aid and CPR AED
Bloodborne Pathogens
Maritime Security Awareness Course Certification
Medical Examiner's Certification
Level I Antiterrorism Awareness Training
Operations Security Training
PHNSY and IMF Code 106 Occupational Health, Safety, and Environmental Brief Certification
SERE 100.2 Level A SERE Education and Training in Code of Conduct Certification

SUMMARY OF EXPERIENCE:

Mr. Ellis is an Environmental Technician at Element Environmental, LLC (E2). Mr. Ellis joined E2 in November 2015. He has over 5 years of experience in Hawaii, Guam, Japan, and Singapore in the environmental consulting field. His specific expertise includes site assessment, characterization, and remediation; hazardous materials survey; and storm water monitoring.

Mr. Ellis has assisted in many environmental projects involving Phase I Environmental Site Assessments (ESAs), Phase II ESAs, remediation activities, and Construction Environmental Hazard Management Plan (C-EHMP) monitoring and implementation during construction at contaminated sites. He has been the field supervisor for surface and subsurface investigations and groundwater monitoring projects and has assisted with various underground structure closures, including USTs, hoists, oil/water separators, and sumps. He has also assisted with the management and operations and maintenance for remediation systems; hazardous materials assessments/surveys and reporting, industrial waste water and illicit discharge inspections, and AMAP monitoring.

Mr. Ellis has completed training for the ASTM E1527 Standard Practice for ESA and attends periodic training and update presentations to stay current with Phase I ESA trends and upcoming 2021 revisions to the practice.

Angela K. Peltier, Geologist

element environmental llc
environmental · engineering · water resources

Angela K. Peltier
Senior Geologist

EDUCATION:

B.S., Geology and Geophysics – University of Hawaii, 2004

SPECIALIZED TRAINING:

OSHA 40-hour Initial HAZWOPER Training

ASTM E1527 Standard Practice for Environmental Site Assessment: Phase I Environmental Site Assessment Process Certification

SUMMARY OF EXPERIENCE:

Ms. Peltier is a Geologist at Element Environmental, LLC (E2). Ms. Peltier joined E2 on July 1, 2006, when E2 merged with Mountain Edge Environmental, Inc. She has 17 years of experience in Hawaii in the environmental consulting field. Her specific expertise includes site assessment, characterization, and remediation.

Ms. Peltier has assisted in many environmental projects involving Phase I Environmental Site Assessments (ESAs), Phase II ESAs, Environmental Hazard Evaluations (EHEs), Environmental Hazard Management Plans (EHMPs), Environmental Condition of Property (ECP) evaluations, preliminary assessments, emergency spill response, subsurface investigation, groundwater monitoring, assessment of fate and transport of surface and groundwater contaminants, soil and groundwater remediation, risk assessment, groundwater monitoring, and explosive gas monitoring. She has also assisted in underground storage tank (UST) removal projects which included preparation of plans and specifications for UST removal, UST removal monitoring, release response activities such as over-excavation, installation of soil borings and groundwater monitoring wells, long-term remediation design and implementation, and report preparation.

Ms. Peltier has also performed Phase I ESAs and has assisted with the preparation of environmental impact statements and environmental assessments. She has also performed environmental and hydrogeological investigations and has conducted remediation activities for several illegal landfill sites.

Ms. Peltier has been involved in several water quality related projects, including preparation of National Pollutant Discharge Elimination System (NPDES) permit applications for an auto recycling facility, an aquarium, and a well drilling operation, preparation of Storm Water Pollution Control Plans for an auto recycling facility and a solid waste transfer station; storm water and industrial discharge monitoring at various sites.

Ms. Peltier has completed training for the ASTM E1527 Standard Practice for ESA and attends periodic training and update presentations to stay current with Phase I ESA trends and upcoming 2021 revisions to the practice.

Arlene H. Campbell, L.G., Senior Geologist

element environmental llc
environmental · engineering · water resources

Arlene H. Campbell, L.G.
Associate
Senior Geologist

EDUCATION:

Graduate Work in Geology - Vanderbilt University, 1988 - 1989
B.A., Geology (minor in Hydrology) - Austin Peay State University, 1988

PROFESIONAL REGISTRATIONS:

Licensed Geologist, Washington State, No. 1664, 2002

SPECIALIZED TRAINING:

OSHA 40-hour Initial HAZWOPER Training and Current 8-hour Refresher
Hazardous Waste Site Supervisor Training

SUMMARY OF EXPERIENCE:

Ms. Campbell is an Associate and Senior Geologist at Element Environmental, LLC (E2). Ms. Campbell joined E2 on July 1, 2006, when E2 merged with Mountain Edge Environmental, Inc. She has over 31 years of experience in Hawaii in the environmental consulting field. Her specific expertise includes site assessment, characterization, and remediation. Ms. Campbell has assisted with several state level task forces to assess environmental risk and address petroleum contaminated soils.

Ms. Campbell has managed many environmental projects involving Phase I Environmental Site Assessments (ESAs), preliminary assessments, emergency spill response, subsurface investigation, groundwater monitoring, assessment of fate and transport of surface and groundwater contaminants, soil and groundwater remediation, and risk assessment. She has also managed numerous underground storage tank (UST) removal projects which included preparation of plans and specifications for UST removal, UST removal monitoring, release response activities such as over-excavation, installation of soil borings and groundwater monitoring wells, long-term remediation design and implementation, and report preparation.

Ms. Campbell has also managed a number of complex hazardous and biological waste removal and site closure projects which involved geophysical surveys, preparation of plans and specifications, waste characterization, and removal and disposal activities. She has performed Phase I ESAs and has assisted with the preparation and review of environ mental impact statements. She has also performed environmental and hydrogeological investigations and has conducted remediation activities for several illegal landfill sites. Noteworthy projects Ms. Campbell has managed included several large emergency response site investigations and remediation projects involving the release of petroleum and polychlorinated biphenyls. One of these projects included an emergency response to a major gasoline spill on Kauai that impacted air, soil, surface water, and groundwater. For this project, Ms. Campbell coordinated with the U.S. Coast Guard, county fire and police departments, EPA Region 9, HDOH, responsible parties, property owners, tenants, and the community. She monitored explosivity and contaminant migration in the subsurface, underground structures/utilities, buildings, a private sewage pumping station, an adjacent stream and the Pacific Ocean; coordinated emergency medical treatment and medical monitoring of affected spill response personnel and civilians; monitored installation of soil vapor points, soil borings, and groundwater monitoring wells; collected soil vapor, soil, groundwater, and stream water samples; prepared release response report; and provided technical support to legal team.

Ms. Campbell has been the principal investigator for several water quality related projects, including preparation of National Pollutant Discharge Elimination System (NPDES) permit applications for an auto recycling facility, an aquarium, a well drilling operation, a cemetery, and a museum; preparation of Storm Water Pollution Control Plans for an auto recycling facility and a solid waste transfer station; storm water and industrial discharge monitoring at various sites; and assisting clients in addressing NPDES compliance issues.