

DAVID Y. IGE  
GOVERNOR OF HAWAII



ELIZABETH A. CHAR, M.D.  
DIRECTOR OF HEALTH

STATE OF HAWAII  
DEPARTMENT OF HEALTH  
P. O. BOX 3378  
HONOLULU, HI 96801-3378

In reply, please refer to:  
EMD/CWB

09025EBT.22

September 30, 2022

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**  
7020 1290 0002 2951 8530

Mr. Andrew Martin  
Principal and Managing Partner  
Arcus Secured Loan Fund III LLC  
4915 East Baseline Road Suite 105  
Gilbert, Arizona 85234

Dear Mr. Martin:

**Subject: Notice of Violation and Order**  
**Docket No. 2022-CW-EO-41**  
**Hawaii Water Pollution Rules and Regulations**  
**42-100 Old Kalaniana'ole Road Lots 1 and 2**  
**Kailua, Island of Oahu, Hawaii**

The Department of Health (DOH), Clean Water Branch (CWB), is serving you with the enclosed Notice of Violation and Order (NOVO) for violations of Hawaii Water Pollution rules and regulations. The violation includes initiating construction activity without National Pollutant Discharge Elimination System (NPDES) permit coverage and discharging sediment from 42-100 Old Kalaniana'ole Road Lots 1 and 2, Kailua, Hawaii 96734 (Site) to Kaelepulu Stream, a Class 2 inland State due to the lack of erosion and sediment control measures at the Site.

Between May 3, 2022 until the date of the DOH-CWB inspection on August 29, 2022, a nearby rain gauge recorded seven (7) separate rain events where more than 0.25 inches of rainfall in a 24-hour period. Given the magnitude of rain associated with a 0.25-inch rain event and the Site's proximity to a State water, the DOH finds that you discharged pollutants on seven days between May 3, 2022 and August 23, 2022, without the required NPDES permit. Further, due to the construction activity exceeding one acre, an NPDES permit authorizing the discharge of storm water associated with the construction activity is required. To date, you have no NPDES permit authorizing the discharge of storm water from the Site to State waters as required by law.

Mr. Andrew Martin  
September 30, 2022  
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Please note that a previous NOVO, Docket No. 2018-CW-EO-17 was issued to the Site's former owner, Mr. Chad Waters, Managing Member, of Sound Investments, LLC, for similar violations. The previous NOVO (enclosed for your reference) remains open and unresolved. Further, the DOH is aware that a Stop Work order was issued to you by the City and County of Honolulu on May 3, 2022 when unpermitted construction activity at the Site was first observed.

Under the Hawaii Revised Statutes (HRS) Chapter §342D-9, the DOH is ordering corrective actions and assessing a monetary penalty of (\$14,000.00). Corrective actions ordered include ceasing construction activity, implementing erosion and sediment control Best Management Practices, submitting a complete application for NDPES permit coverage and submitting a report regarding the construction activity.

Please note that the DOH is requiring a corporate structure chart to be submitted with the NPDES permit application. The reason being that DOH has had problems collecting monetary penalties from special purpose entities established for discrete projects such as yours. The prospect of monetary penalties, as a supplement to corrective actions, is a necessary disincentive to encourage compliance with permit conditions to protect the environment. Lastly, DOH requires an operating entity that will have the authority and financial wherewithal to bear legal and financial liability for non-compliance.

The enclosed Order shall become final twenty (20) calendar days after this NOVO is served, unless you request a hearing in writing no later than twenty (20) calendar days after service. The request for a hearing must be made in accordance with the requirements listed in the NOVO. Furthermore, if the penalty is not paid to the DOH within thirty (30) calendar days after it becomes due and payable, the Director may initiate a civil lawsuit to recover the penalty.

Mr. Andrew Martin  
September 30, 2022  
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Should you have any questions, please contact Mr. Matthew Kurano of the Enforcement Section, CWB, at (808) 586-4309.

Sincerely,

*Kathleen Ho*

KATHLEEN S. HO  
Deputy Director for Environmental Health

BT:bt

Enclosures: 1. Notice of Violation, Docket No. 2022-CW-EO-41  
2. Exhibit A  
3. Exhibit B  
4. Exhibit C  
5. Certificate of Service  
6. Certification

c: Mr. Dale Sakata, Deputy Attorney General, Department of the Attorney General (w/encl.)

STATE OF HAWAII

DEPARTMENT OF HEALTH  
NOTICE OF VIOLATION AND ORDER

<b>TO:</b> Mr. Andrew Martin Principal and Managing Partner Arcus Secured Loan Fund III LLC 4915 East Baseline Road Suite 105 Gilbert, Arizona 85234  Respondent	<b>NOVO No. 2022-CW-EO-41</b> <i>Please write this NOVO number on all correspondence</i>  Re: Violation of Hawaii Water Pollution Rules and Regulations  Property/Site: 42-100 Old Kalaniana'ole Road, Lots 1 and 2, Kailua, Hawaii 96734
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The Department of Health (DOH) issues this Notice of Violation and Order (NOVO) under Hawaii Revised Statutes (HRS) Chapters 91 and 342D based on findings from the August 29, 2022 inspection of 42-100 Old Kalaniana'ole Road Lots 1 and 2, Kailua, Hawaii; TMK (1) 4-2-005:008 and (1) 4-2-005:010 (Site) and subsequent file reviews and related investigation performed by the DOH, Clean Water Branch (CWB).

Attached as exhibits are:

- Inspection Report from the August 29, 2022 inspection of the Site (Exhibit A);
- National Weather Service rainfall data at Olomana Fire Station rain gauge (Exhibit B);
- Notice of Violation and Order Docket, No. 2018-CW-EO-17 issued to Olomana Heights Subdivision (Exhibit C).

This case deals only with violations alleged below. The DOH may bring other cases for other violations. This case does not limit cases by any other public agency or private party.

**Statutes/Rules****Nature of the Violation**

HRS §342D-9,  
 HRS §342D-31,  
 HRS §342D-50(a),  
 HRS §342D-50(d),  
 HAR, §11-55-  
 34.8(j)(2)

**42-100 Old Kalaniana'ole Road, Lots 1 and 2****Background**

TMK: (1) 4-2-005:008 and (1) 4-2-005:010 constitute approximately 11 contiguous acres of undeveloped land located at 42-100 Old Kalaniana'ole Road in Kailua on the island of Oahu. Property records indicated that the Site is currently owned by Respondent. The Site was previously owned by Sound Investments, LLC (**Sound Investments**).

On May 3, 2022, the City and County of Honolulu (**CCH**), Department of Planning and Permitting (**DPP**), personnel identified active construction activity at the Site and issued a stop work order to Arcus Secured Loan Fund III LLC for grading without a permit at the Site, as well as at two adjacent parcels; TMKs (1) 4-2-005:009 and 012. The Site is still currently under a stop work order from CCH-DPP (Attachment C of Exhibit A).

On August 29, 2022, the DOH-CWB conducted an inspection of the Site to determine whether there was construction activity requiring an NPDES permit. Based on observations made during the inspection, the DOH identified that Respondent: (1) began construction activities which were greater than one (1) acre without National Pollutant Discharge Elimination System (NPDES) permit coverage; and (2) was actively engaged in construction activities at the Site.

Based on observations of the Site and subsequent file reviews and related investigation, the DOH-CWB determined that Respondent illegally discharged sediment, a water pollutant, from the Site to State waters (Exhibit A).

According to CCH-DPP records, storm water from the Site drains through a private storm sewer system into an unnamed intermittent stream tributary of Kaelepulu Stream. Kaelepulu Stream is a Class 2 Inland State water.

To determine the number of days where unauthorized discharges of water pollutants occurred, the DOH obtained rainfall data from a nearby rain gauge maintained by the National Weather Service (**NWS**). Rainfall of more than 0.25 inches per day is in excess of the amount needed to cause storm water to discharge from the Site. This measure is a conservative proxy for days of discharge to nearby State waters. The NWS rain gauge recorded seven (7) occasions between May 3, 2022 to August 23, 2022 (Exhibit B) where there was rainfall greater than 0.25 inches at the nearby Olomana Fire Station rain gauge station. Station No. 13009 (Exhibit B).

While the Site was under ownership of Sound Investments, a NOVO was issued to Mr. Chad Waters on April 19, 2018 for conducting construction activity at the Site without an NPDES permit. Notably, DOH-CWB inspections of the Site under previous ownership found that construction activities at the Site resulted in discharges of sediment laden storm water. Corrective actions ordered in the NOVO remain outstanding (Exhibit C).

HRS §342D-9 authorizes the Director of Health to order measures to be taken to correct violations and impose penalties for violations of HRS Chapter 342D.

HRS §342D-31 states that “the [D]irector is authorized to impose by order the penalties specified in [HRS §]342D-30.”

HRS §342D-30 states that violators shall be fined not more than \$25,000 per day for each separate offense and that each day of each violation constitutes a separate offense.

HRS §342D-50(a) states that “[n]o person, including any public body, shall discharge any water pollutant into state waters, or cause or allow any water pollutant to enter state waters except in compliance with this chapter, rules adopted pursuant to this chapter, or a permit or variance issued by the [D]irector.”

HRS §342D-50(d), states that “[n]o person, including any public body, shall violate any rule adopted pursuant to this chapter or any permit or variance issued or modified pursuant to this chapter.”

#### 1. Unlawful Discharge of Water Pollutants to State Waters

Respondent failed to obtain the required NPDES permit authoring the discharge of storm water associated with construction activities and failed to implement Best Management Practices (BMPs) to prevent discharges of polluted storm water to State waters as would be required by an NPDES permit.

Respondent did not have authorization to discharge storm water associated with construction activity of greater than one acre to a tributary of Kaelepulu Stream, a Class 2 Inland State water, as required by law. Based on nearby rainfall data, Respondent illegally discharged storm water associated with construction activities at the Site, on seven (7) days; May 3, 2022, May 20, 2022, May 29, 2022, July 3, 2022, August 5, 2022, August 6, 2022 and August 23, 2022, without a DOH permit required for the discharge. Further, Respondent did not implement BMPs to prevent

	<p>polluted discharges as required by the applicable NPDES permit. The required BMPs would have reduced the quantity of pollutants discharged.</p> <p>Based on the details above, the DOH finds that Respondent violated HRS §342D-50(a) on seven (7) counts by discharging, or causing or allowing, water pollutants from the Site to State waters without a permit between May 3, 2022 and August 23, 2022.</p> <p><u>2. Initiated Activity/Discharge Without Required NPDES Permit Coverage</u></p> <p>On August 29, 2022, Respondent failed to comply with HAR §11-55-34.8(j)(2) which requires submission of a Notice of Intent (NOI) to the CWB prior to initiating construction activity, by clearing lots 1 and 2 of the Site without submitting the NOI or otherwise obtaining NPDES permit coverage.</p> <p>Based on the details above, the DOH finds that Respondent violated HRS §342D-50(d) on one (1) count by initiating activity at the Site without required NPDES permit coverage on August 29, 2022.</p>
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The facts of this case and the law justify the following order.

### ORDER

Respondent is ordered to:

- 1) Immediately cease all construction activity subject to NPDES requirements at the Site.
- 2) Within 15 calendar days from the date this NOVO becomes final (**Effective Date**), implement erosion and sediment control BMPs at the Site to prevent further polluted discharges. At a minimum, you must implement all BMPs as required by HAR Chapter 11-55, Appendix C.
- 3) Within 30 calendar days from the Effective Date, submit a complete application for an NPDES permit authorizing the discharge of storm water associated with construction activity.
- 4) Within 30 calendar days from Effective Date, submit a report to the DOH providing the following information:
  - a) Dates (beginning and ending) that active construction activities, including grubbing, grading, filling, and tree felling occurred at the Site.

- b) The identity of the operator/contractor who conducted the ground disturbing work at the Site. Provide names, phone number and contact information.
  - c) Provide a description of activities that have occurred and are planned at the Site.
- 5) Pay an administrative penalty of \$14,000.00 within 20 calendar days of either the service of this NOVO or the Effective Date, whichever is later. Send a certified check for \$14,000.00 to: Clean Water Branch, Department of Health, 2827 Waimano Home Road #225, Pearl City, Hawaii 96782. The payment should be made payable to "State of Hawaii" and include the NOVO reference number, 2022-CW-EO-41.

All submittals made pursuant to any Order in this NOVO shall be certified and signed by a person legally authorized to sign on behalf of Respondent. All documents submitted pursuant to any Order in this NOVO must include the following Certification Statement:

"I certify under penalty of law that this document and its attachments were prepared either by me personally or under my direction or supervision in a manner designed to ensure that qualified and knowledgeable personnel properly gathered and presented the information contained therein. I further certify, based on my personal knowledge or on my inquiry of those individuals immediately responsible for obtaining the information, that to the best of my knowledge and belief the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fines and imprisonment for knowing and willful submission of a materially false statement."

The provisions of this NOVO shall become final unless, within 20 calendar days after receipt, Respondent submits a **written** request for a hearing, along with a copy of the NOVO, without exhibit(s), to:

Hearings Officer  
c/o Director of Health  
1250 Punchbowl Street, Third Floor  
Honolulu, Hawaii 96813

Respondent may file the hearing request in person at the Director's office listed above during regular business hours, or may mail the same to the above address within the allotted time. **Failure to timely file the hearing request and related documents may result in a denial of the hearing request.**

The hearing will be conducted in accordance with HRS Chapter 91 and Hawaii Administrative Rules Chapter 11-1. At the hearing, the parties may seek to avoid any penalty, and the DOH may seek the maximum penalty of \$25,000 per day, per violation, although the actual penalty amount may be lower, or none.

Parties may be represented by legal counsel at their own expense. An individual may appear on his/her own behalf, or a member of a partnership may represent the



partnership, or an officer or authorized employee of a corporation, or trust, or association may represent the corporation, trust or association.

All inquiries regarding this matter, other than the request for hearing, shall be directed to: Mr. Matthew Kurano, Supervisor of the Enforcement Section, CWB, at (808) 586-4309.

If due to a disability you have special needs that will aid you in participating in the hearing or pre-hearing conference, please contact the Hearings Officer at (808) 586-4409 (voice) or through the Telecommunications Relay Service (711), at least 10 working days before the hearing or pre-hearing conference date.

*Kathleen Ho*

Date: Sep 29, 2022

*Dale K. Sakata*

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KATHLEEN S. HO  
Deputy Director for Environmental Health

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Approved as To Form By:  
Dale Sakata  
Deputy Attorney General



Hawaii Department of Health  
Clean Water Branch  
2827 Waimano Home Road, Room 225  
Pearl City, HI 96782

Complaint Inspection  
Report  
Site Name: 42-100 Old Kalaniana'ole Road, Lots 1 and 2  
Permit No.: HIU010676

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**Hawaii Department of Health  
Clean Water Branch  
Complaint Inspection Report**

On August 29, 2022, the Department of Health (DOH), Clean Water Branch (CWB) (hereinafter, DOH-CWB) conducted an inspection at the Olomana Heights Subdivision located at 42-100 Old Kalaniana'ole Road, Waimanalo, Hawaii. The inspection was conducted in response to a complaint of potentially water pollution generating construction activity on parcels identified by tax map keys: 42005008:0000 and 42005010:0000 (Site). Active construction activity was occurring and included clearing and grading of steep sloped areas. Previous inspections at the Olomana Heights Subdivision showed construction activities were adversely impacting nearby streams and wetlands by discharging sediment laden water. A DOH, Notice of Violation and Order, Docket Number, 2018-CW-EO-17 was issued for unpermitted construction on the same parcel. Based on visual observations, it appeared construction activity exceeding one (1) acre was occurring. No record of a National Pollutant Discharge Elimination System (NPDES) permit was found. No implementation of Best Management Practices (BMPs) to prevent polluted discharges were observed.

Based on the slope and location of the Site, there is a high potential for polluted discharges to State waters.

An annotated photograph log is included as part of this report and referenced as applicable.

### Site Information

**Site Address:** 42-100 Old Kalaniana'ole Rd., Lots 1 and 2, Waimanalo, HI 96795

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**File Number:** HIU010676

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**Receiving Water(s):** Unnamed Intermittent Stream

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### Inspection Information

**Inspection Date:** August 29, 2022

**Weather:** Sunny

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**Inspection Report Number:** OA2823

**Announced:** No

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**Entry:** 9:30 AM

**Exit:** 9:45 AM

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**TMKs:** (1) 4-2-005-008, (1) 4-2-005-010

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**Inspection Team:** Matthew Kurano and Jamie Tanimoto of the DOH- CWB

### **Background**

TMK: (1) 4-2-005-008 and (1)4-2-005-010 are owned by Arcus Secured Loan Fund III LLC (see attachments A and B). Previous inspections and NOVO, Docket Number 2018-CW-EO-17.

According to City and County of Honolulu (CCH), Department of Planning and Permitting (DPP) records, indicate that storm water runoff from the subdivision drains through a private storm system into an unnamed intermittent stream tributary of the Kaelepulu stream system; a State water. According to information provided by the CCH-DPP (Attachment C), the Site is currently under a "stop work" order issued on Mat 3, 2022. The CCH, Notice of Violation, Violation No. 2022/NOV-04-106 was issued for grading without a permit, and included four (4) adjacent parcels, TMKs, 4-2-005: 008, 009, 010, and 012.

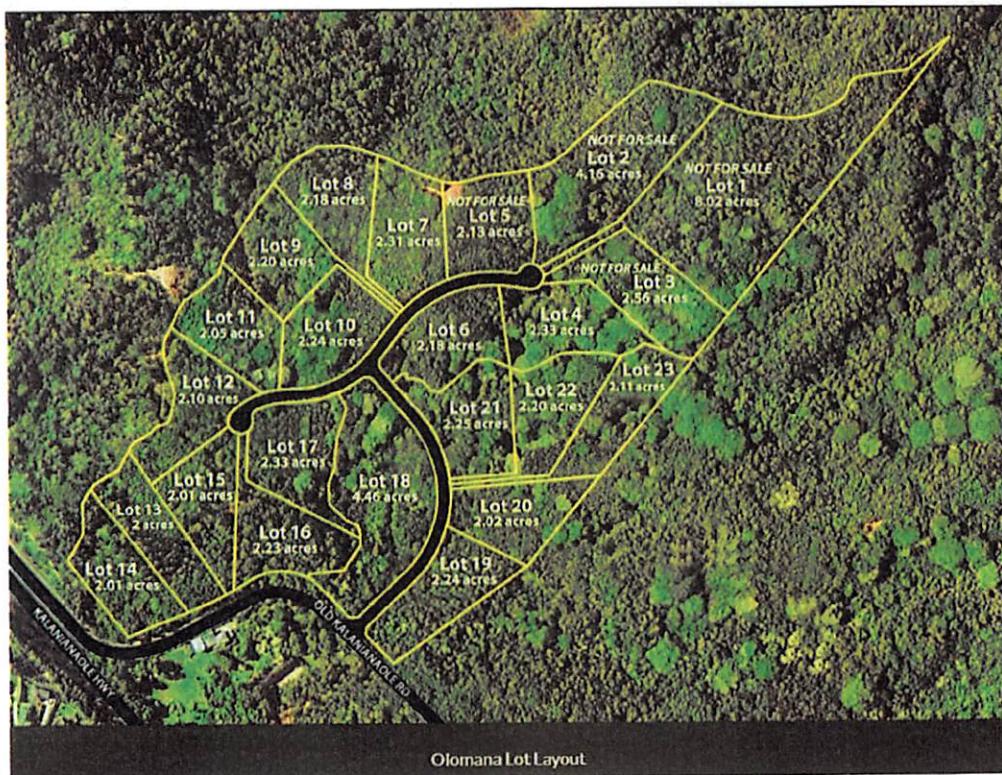
### **Findings of Inspection**

The following findings were made either before, during, or after inspection of the Site. The findings are not a comprehensive list of all possible areas of non-compliance with Hawaii Water Pollution rules and regulations.

1. On August 29, 2022, at approximately 9:30 AM, Jamie Tanimoto and I (hereinafter, Inspection Team) arrived at the Olomana Heights Subdivision (Images 1). J. Tanimoto and I parked at the end of the cul-de-sac immediately below the Site (Photograph 1). I observed a piece of heavy equipment perched on the upper slope of what appeared to be the parcel identified as Lot 1 (Image 2). The piece of equipment appeared to be clearing and grading the Site (Photograph 2). Based upon the amount of bare earth, it appeared that more than one (1) acre was under active clearing and grading.
2. The Site is very steep. I did not observe sediment or erosion control BMPs installed around the denuded area.
3. Prior to leaving the subdivision, I observed a detention basin located in the center of the subdivision. The vegetation level appeared to be at the bottom of the detention basin's discharge pipes. It is unclear whether the detention basin has been maintained or continues to have adequate volume necessary to provide treatment to storm water as designed.



**Image 1:** Image of subject lots at 42-100 Old Kalaniana'ole Road (Red Arrows). Image was obtained from the City and County of Honolulu – Department of Planning and Permitting – HOLIS site.



**Image 2:** Image of subject lots as identified on the Olomanaheights.com website, on August 30, 2022. Lots identified as 1 and 2 are where the construction was observed.



**Photograph 1.**

Date Photograph Taken: August 29, 2022

By: Matthew Kurano

Description: View, facing west, of the driveway leading to where clearing and grading was taking place (Red Arrow). The upper slope appeared largely denuded.



**Photograph 2.**

Date Photograph Taken: August 29, 2022

By: Matthew Kurano

Description: Closer view of the denuded slopes at the Site. The Site appeared greater than one (1) acre.



Hawaii Department of Health  
Clean Water Branch  
2827 Waimano Home Road, Room 225  
Pearl City, HI 96782

## Complaint Inspection

### Photograph Log

Site Name: 42-100 Old Kalaniana'ole Road, Lots 1 and 2

Permit No.: HIU010676



#### Photograph 3.

Date Photograph Taken: August 29, 2022

By: Matthew Kurano

Description: View of the subdivision's storm water detention basin. Storm water from the Site will flow into the detention basin before discharging into State waters.



Hawaii Department of Health  
Clean Water Branch  
2827 Waimano Home Road, Room 225  
Pearl City, HI 96782

**Complaint Inspection  
Report**  
Site Name: 42-100 Old Kalaniana'ole Road, Lots 1 and 2  
Permit No.: HIU010676

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### Inspection Report Certification

I certify that the statements made in this inspection report are, to the best of my knowledge, a true and accurate representation of what was observed on August 29, 2022 at 42-100 Old Kalaniana'ole Road, Lots 1 and 2, Kailua, HI.

I certify that Photographs 1-3 described above was taken by the undersigned and are a true and accurate representation of what was observed on August 29, 2022 at 42-100 Old Kalaniana'ole Road, Lots 1 and 2, Kailua, HI.

A handwritten signature in blue ink, appearing to read 'M. Kurano', written over a horizontal line.

Matthew Kurano  
Environmental Health Specialist

A handwritten date 'Aug 30, 2022' in blue ink, written over a horizontal line.

Date









## Notice of Violation

Violation No.: 2022/NOV-04-108 (SD)

Date: May 03, 2022

**Owner(s)**

Arcus Secured Loan Fund III, LLC  
 4915 E Baseline Road Suite 105  
 Gilbert, Arizona 85234

Contractor(s)	Tenant/Violator	Architect/Plan Maker
Lessee	Agent	Engineer
TMK: 4-2-008:008	42-100 OLD KALANIANA'OLE RD UNIT 1	
4-2-008:009	42-100 OLD KALANIANA'OLE RD UNIT 2	
4-2-008:010	42-100 OLD KALANIANA'OLE RD UNIT 3	
4-2-008:012	42-100 OLD KALANIANA'OLE RD UNIT 6	

Specific Address of Violation: 42-100 Old Kalaniana'ole Road

I have inspected the above-described premises and have found the following violations of City and County of Honolulu's laws and regulations governing same:

Codes and/or Ordinance(s) and Section(s)	Violation(s)
ROH 1990, as amended, Chapter 14 Section 14-14.1(a)	Grading without a permit (approximately 653 cubic yards).

ROH 1990, as amended, Chapter 14 Section 14-16.2(b)(6)

**A stop work is hereby ordered for the violation(s) noted above. A NOTICE OF ORDER, as indicated below, will be issued by the Department of Planning and Permitting imposing CIVIL FINES for the specified violations. You will be charged with an initial fine of \$150.00; and if no corrective action is taken by the specified date, you will be assessed a daily fine of \$150.00, until corrective action is completed.**

**STOP WORK!** You are hereby ordered to stop illegal work immediately.  
 You are hereby ordered to take immediate measures to stabilize the site and protect abutting properties.  
 You are hereby ordered to obtain permit(s) and/or correct violation by June 2, 2022.  
 Please call the undersigned after the corrections have been made.  
 You are reminded that if no action is taken within the specified time:

1. A Notice of Order will be issued by the Department of Planning and Permitting imposing CIVIL FINES for the specified violations; and/or
2. This matter may be referred to the Prosecuting Attorney and/or Corporation Counsel for appropriate action.

Special Instructions: Orig-Owner  
 Cc - HPD, Project Review Section  
 Inspection unit (2)  
 File (w/ orig. attach.)

Inspector:   
 Bruce Han Phone: 571-4703  
 for the Director Department of Planning and Permitting

# EXHIBIT B

Sensor#	Ua Net	Tabular	Report	Oahu						Pg 2 of 3	
	13002	13003	13004	13005	13006	13007	13008	13009	13010		
Stn Name	Waihee P	Moanalua	Hakipuu Mauka	Ahuimanu Loop	St. Stephens	Nuuanu	Maunawili	Olomana FS	Palolo FS		
5/1/2022	0.23	0.61	0.16	0.17	0.43	1.20	0.54	0.20	0.30		
5/2/2022	0.35	1.52	0.22	0.13	0.55	1.62	0.41	0.27	0.41		
5/3/2022	0.86	0.47	0.98	0.23	0.91	1.32	0.89	0.73	0.23		
5/4/2022	0.23	0.17	0.23	0.51	0.24	0.40	0.27	0.09	0.07		
5/5/2022	0.16	0.09	0.04	0.22	0.16	0.41	0.16	0.07	0.06		
5/6/2022	0.10	0.02	0.02	0.03	0.02	0.29	0.02	0.00	0.02		
5/7/2022	0.01	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00		
5/8/2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/9/2022	0.16	0.49	0.00	0.08	0.13	0.76	0.16	0.02	0.02		
5/10/2022	0.09	0.23	0.00	0.09	0.08	0.59	0.18	0.02	0.03		
5/11/2022	0.07	0.02	0.00	0.05	0.00	0.01	0.00	0.00	0.00		
5/12/2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/13/2022	0.06	0.02	0.00	0.01	0.00	0.01	0.01	0.00	0.00		
5/14/2022	0.05	0.18	0.03	0.10	0.00	0.34	0.00	0.00	0.07		
5/15/2022	0.15	0.17	0.00	0.01	0.12	1.10	0.05	0.00	0.03		
5/16/2022	0.37	0.04	0.12	0.35	0.09	0.04	0.06	0.13	0.20		
5/17/2022	0.01	0.01	0.00	0.01	0.07	0.01	0.19	0.19	0.03		
5/18/2022	0.31	0.29	0.14	0.19	0.14	0.23	0.18	0.07	0.09		
5/19/2022	0.00	0.00	0.01	0.00	0.00	0.00	0.04	0.01	0.02		
5/20/2022	0.76	1.63	0.18	0.38	0.62	0.45	0.61	0.36	0.04		
5/21/2022	0.01	0.00	0.03	0.01	0.16	0.00	0.01	0.01	0.00		
5/22/2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/23/2022	0.04	0.00	0.07	0.07	0.10	0.31	0.07	0.02	0.00		
5/24/2022	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00		
5/25/2022	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00		
5/26/2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5/27/2022	0.04	0.00	0.00	0.00	0.03	0.11	0.08	0.01	0.00		
5/28/2022	0.81	0.02	0.15	0.43	0.26	0.89	0.04	0.00	0.00		
5/29/2022	0.67	0.05	0.33	0.85	0.99	0.27	0.21	0.27	0.10		
5/30/2022	0.01	0.01	0.00	0.00	0.02	0.01	0.00	0.00	0.00		
5/31/2022	0.00	0.10	0.00	0.00	0.00	0.07	0.00	0.00	0.00		
Total	5.55	6.14	2.72	3.95	5.13	10.45	4.19	2.47	1.72		

PROVISIONAL UNCERTIFIED DATA USED FOR HYDROLOGIC PURPOSES

Ua Net			Tabular			Report				Oahu		Pg 2 of 3	
Sensor#	13002	13003	13004	13005	13006	13007	13008	13009	13010				
Stn Name	Waihee P	Moanalua	Hakipuu Mauka	Ahuimanu Loop	St. Stephens	Nuuanu	Maunawili	Olomana FS	Palolo FS				
7/1/2022	0.07	0.03	0.02	0.08	0.12	0.20	0.22	0.01	0.08				
7/2/2022	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00				
7/3/2022	0.92	0.59	0.10	0.87	0.66	1.44	0.72	0.27	0.21				
7/4/2022	0.05	0.14	0.03	0.04	0.20	0.44	0.30	0.11	0.05				
7/5/2022	0.19	0.28	0.23	0.28	0.35	0.62	0.32	0.23	0.20				
7/6/2022	0.15	0.19	0.19	0.03	0.13	0.05	0.06	0.02	0.06				
7/7/2022	0.16	0.30	0.06	0.11	0.13	0.39	0.36	0.10	0.06				
7/8/2022	0.07	0.35	0.00	0.02	0.17	0.77	0.35	0.02	0.30				
7/9/2022	0.11	0.17	0.03	0.08	0.14	0.25	0.16	0.04	0.03				
7/10/2022	0.01	0.00	0.03	0.01	0.01	0.00	0.01	0.00	0.00				
7/11/2022	0.12	0.16	0.01	0.04	0.09	0.21	0.22	0.03	0.07				
7/12/2022	0.39	0.41	0.11	0.21	0.12	0.75	0.24	0.00	0.30				
7/13/2022	0.37	0.14	0.09	0.39	0.24	0.61	0.34	0.05	0.11				
7/14/2022	0.29	0.29	0.50	0.14	0.29	0.56	0.24	0.10	0.20				
7/15/2022	0.04	0.11	0.04	0.02	0.16	0.36	0.27	0.03	0.08				
7/16/2022	0.25	0.07	0.17	0.15	0.06	0.18	0.06	0.02	0.00				
7/17/2022	0.08	0.00	0.06	0.03	0.05	0.07	0.11	0.02	0.00				
7/18/2022	0.17	0.07	0.15	0.09	0.09	0.24	0.11	0.05	0.01				
7/19/2022	0.01	0.11	0.02	0.03	0.01	0.07	0.09	0.01	0.05				
7/20/2022	0.07	0.13	0.01	0.11	0.10	0.13	0.11	0.08	0.06				
7/21/2022	0.23	0.43	0.06	0.06	0.34	1.01	0.54	0.10	0.12				
7/22/2022	0.00	0.01	0.00	0.01	0.01	0.05	0.00	0.00	0.02				
7/23/2022	0.00	0.05	0.01	0.00	0.00	0.00	0.00	0.00	0.04				
7/24/2022	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00				
7/25/2022	0.18	0.04	0.08	0.17	0.15	0.18	0.12	0.06	0.16				
7/26/2022	0.13	0.04	0.17	0.05	0.13	0.26	0.21	0.03	0.02				
7/27/2022	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00				
7/28/2022	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00				
7/29/2022	0.17	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00				
7/30/2022	0.03	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00				
7/31/2022	0.00	0.00	0.00	0.02	0.04	0.00	0.00	0.00	0.03				
Total	4.26	4.11	2.19	3.14	3.80	8.85	5.16	1.38	2.26				

**PROVISIONAL UNCERTIFIED DATA USED FOR HYDROLOGIC PURPOSES**



## Hawaii Rainfall Summary 90 Day Archive

[Weather.gov](http://Weather.gov) > [Honolulu, HI](http://Honolulu.HI) > Hawaii Rainfall Summary 90 Day Archive

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SRHW80 PHFO 051845  
 RRAHFO  
 HAWAII RAINFALL SUMMARY  
 NATIONAL WEATHER SERVICE HONOLULU HI  
 845 AM HST Fri Aug 5 2022

:  
 .B HFO 0805 H DH08 /DRH-03/PPT/DRH-06/PPQ/DRH-12/PPK/DRH-24/PPD  
 :  
 :Automated rain gage reports from around the State of Hawaii.  
 :These are provisional reports that have not been quality  
 :controlled.

:  
 :T=Trace Rainfall, M=Missing Data  
 :  
 :Precipitation totals ending 8 AM HST

:Island of Kauai		Inches			
:ID	Location	3-Hr	6-Hr	12-Hr	24-Hr
: Windward/Mauka Sites					
MKAH1	: Makaha Ridge	: 0.00 /	0.00 /	0.00 /	0.01
PLRH1	: Puu Lua	: 0.00 /	0.01 /	0.01 /	0.39
WKRH1	: Waiakoali (USGS)	: 0.00 /	0.00 /	0.01 /	0.50
KLOH1	: Kilohana (USGS)	: 0.00 /	0.00 /	0.01 /	3.86
MCRH1	: Mohihi Crossing (USGS)	: 0.00 /	0.00 /	0.00 /	0.08
WLGH1	: Waialae (USGS)	: 0.01 /	0.01 /	0.01 /	0.04
WNHH1	: Wainiha (12010)	: 0.00 /	0.00 /	0.00 /	0.00
HNIH1	: Hanalei (12009)	: 0.00 /	0.00 /	0.01 /	0.02
WLLH1	: Mount Waialeale (USGS)	: 0.00 /	0.01 /	0.01 /	0.75
PRIH1	: Princeville Airport	: 0.00 /	0.00 /	0.00 /	0.01
MLDH1	: Moloaa Dairy	: M /	M /	M /	M
ANHH1	: Anahola (12001)	: 0.00 /	0.00 /	0.00 /	0.00
KPIH1	: Kapahi (12003)	: 0.01 /	0.02 /	0.05 /	0.06
WLDH1	: N Wailua Ditch (USGS)	: 0.00 /	0.00 /	0.00 /	0.01
WUHH1	: Wailua (12005)	: 0.00 /	0.00 /	0.05 /	0.08
WIRH1	: Waiahi Rain Gage (USGS)	: 0.00 /	0.00 /	0.00 /	0.01
LIHH1	: Lihue Var. Stn. (12006)	: 0.00 /	0.01 /	0.01 /	0.02
HLI	: Lihue Airport	: T /	T /	T /	T
: Leeward Sites					
POIH1	: Poipu	: 0.04 /	0.04 /	0.04 /	0.04
OMAH1	: Omao (12004)	: 0.00 /	0.00 /	0.00 /	0.00
KHEH1	: Kalaheo (12008)	: 0.00 /	0.00 /	0.00 /	0.00
PAKH1	: Port Allen	: M /	M /	M /	M
HNP1	: Hanapepe (12002)	: 0.00 /	0.00 /	0.00 /	0.00
POP1	: Puu Opae	: 0.00 /	0.00 /	0.00 /	0.40
WHGH1	: Waimea Heights	: 0.00 /	0.00 /	0.00 /	0.49
WMTH1	: Waimea Tank (12007)	: 0.00 /	0.00 /	0.00 /	0.56
MNRH1	: Mana	: 0.00 /	0.00 /	0.00 /	0.81
: Island of Oahu					
:ID	Location	3-Hr	6-Hr	12-Hr	24-Hr
: Windward/Mauka Sites					
KAH1	: Kahuku	: 0.02 /	0.02 /	0.02 /	0.02
KTAH1	: Kahuku Training Area	: 0.09 /	0.09 /	0.12 /	0.12
KFWH1	: Kii	: 0.02 /	0.02 /	0.02 /	0.05
PUNH1	: Punaluu Pump (13013)	: 0.50 /	0.50 /	0.56 /	0.58
PNSH1	: Punaluu Stream (USGS)	: 0.58 /	0.95 /	1.24 /	1.31
KNRH1	: Kahana (USGS)	: 0.60 /	0.69 /	0.83 /	0.86
HAKH1	: Hakipuu Mauka (13004)	: 0.29 /	0.29 /	0.39 /	0.40
WPPH1	: Waihee Pump (13002)	: 0.22 /	0.74 /	0.76 /	0.80
WSSH1	: Waiahole (USGS)	: 0.20 /	0.21 /	0.21 /	0.21
OFRH1	: Oahu Forest NWR (USFWS)	: 0.01 /	0.01 /	0.01 /	0.01
AHUH1	: Ahuimanu Loop (13005)	: 0.30 /	0.45 /	0.45 /	0.45
HRRH1	: Hee'ia NERR	: 0.31 /	0.34 /	0.34 /	0.34
LULH1	: Lu'uku (13016)	: 0.39 /	0.40 /	0.40 /	0.42
NUUH1	: Nuuanu Upper (13007)	: 0.02 /	0.02 /	0.12 /	0.13
MNLH1	: Manoa Lyon Arboretum (3050)	: 0.16 /	0.20 /	0.28 /	0.31
STVH1	: St. Stephens (13006)	: 0.35 /	0.35 /	0.54 /	0.54
MAUH1	: Maunawili (13008)	: 0.35 /	0.35 /	0.64 /	0.64
OFSH1	: Olomana Fire Station (13009)	: 0.24 /	0.24 /	0.33 /	0.33
WMLH1	: Waimanalo (13011)	: 0.22 /	0.27 /	0.28 /	0.30
BELH1	: Bellows AFS	: 0.05 /	0.05 /	0.05 /	0.17
KMH1	: Kamehame (13012)	: 0.04 /	0.04 /	0.04 /	0.04

HAIH1 : Hawaii Kai Golf Crse (13015):	0.00 / 0.00 / 0.00 / 0.00
: Leeward/Central Sites	
NIUH1 : Niu Valley (13001) :	0.00 / 0.00 / 0.00 / 0.00
PFSH1 : Palolo Fire Station (13010) :	0.00 / 0.01 / 0.03 / 0.09
ALOH1 : Aloha Tower (HI26) :	M / M / M / M
HNL : Honolulu Airport	0.00 / 0.00 / 0.00 / 0.00
MOAH1 : Moanalua (13003) :	0.00 / 0.00 / 0.00 / 0.01
MOGH1 : Moanalua RG (USGS) :	0.09 / 0.18 / 0.57 / 0.58
TNLH1 : Tunnel RG (USGS) :	0.04 / 0.06 / 0.14 / 0.15
PACH1 : Palisades (3020) :	0.00 / 0.03 / 0.03 / 0.08
WAWH1 : Waiawa C.F. (3070) :	0.00 / 0.02 / 0.02 / 0.02
MITH1 : Mililani (3040) :	0.00 / 0.01 / 0.01 / 0.18
SCBH1 : Schofield Barracks	0.00 / 0.00 / 0.00 / 1.06
SCEH1 : Schofield East	0.00 / 0.00 / 0.00 / 0.00
WAFH1 : Wheeler Airfield	0.00 / 0.00 / 0.00 / 0.31
POAH1 : Poamoho (3000) :	0.00 / 0.00 / 0.00 / 1.60
KMRH1 : Kamananui Stream (USGS) :	0.00 / 0.01 / 0.01 / 0.02
PPRH1 : Pupukea Road (USGS) :	0.00 / 0.00 / 0.00 / 0.00
PMHH1 : Poamoho RG 1 (USGS) :	0.07 / 0.17 / 0.28 / 0.33
DLGH1 : Dillingham	0.00 / 0.00 / 0.00 / 0.06
PECH1 : Waipio (3010) :	0.00 / 0.00 / 0.00 / 0.00
KUNH1 : Kunia Substation (3030) :	0.00 / 0.00 / 0.00 / 0.05
WNFH1 : Waiawa	0.00 / 0.00 / 0.00 / 0.00
HOFH1 : Honouliuli	0.00 / 0.00 / 0.00 / 0.08
PTWH1 : Ewa Beach USGS (3060) :	0.00 / 0.00 / 0.00 / 0.00
HJR : Kalaeloa Airport	0.00 / 0.00 / 0.00 / 0.00
PLHH1 : Palehua	0.00 / 0.01 / 0.01 / 0.09
LUAH1 : Lualualei (HI05)	M / M / M / M
WNVH1 : Waianae Valley	0.00 / 0.00 / 0.00 / 0.22
WBHH1 : Waianae Boat Harbor	0.00 / 0.00 / 0.00 / 0.00
WAIH1 : Waianae (13014) :	0.00 / 0.00 / 0.00 / 0.05
MKH1 : Makaha Stream (USGS)	0.00 / 0.00 / 0.00 / 0.60
MKRH1 : Makua Range	0.00 / 0.00 / 0.00 / 0.06
MKGH1 : Makua Ridge	0.00 / 0.00 / 0.00 / 0.29
MAPH1 : Makua Portable	M / M / M / M
KKRH1 : Kuaokala	0.00 / 0.00 / 0.00 / 0.02
:	
:Island of Molokai	Inches
:ID Location	3-Hr 6-Hr 12-Hr 24-Hr
KMLH1 : Kamalo (HI73) :	M / M / M / M
MKPH1 : Makapalapal	0.00 / 0.00 / 0.00 / 0.00
PAFH1 : Puu Alii	0.00 / 0.00 / 0.01 / 0.11
MLKH1 : Molokai 1	0.00 / 0.00 / 0.00 / 1.09
KACH1 : Kaunakakai Mauka (14004) :	0.00 / 0.00 / 0.00 / 0.02
HMK : Molokai Airport	0.00 / 0.00 / 0.00 / 0.61
:	
:Island of Lanai	Inches
:ID Location	3-Hr 6-Hr 12-Hr 24-Hr
LANH1 : Lanai City (14012) :	0.00 / 0.00 / 0.00 / 0.14
HNY : Lanai Airport	0.00 / 0.00 / 0.00 / 0.00
LNIH1 : Lanai 1	0.00 / 0.00 / 0.00 / 0.52
:	
:Island of Kahoolawe	Inches
:ID Location	3-Hr 6-Hr 12-Hr 24-Hr
KAOH1 : Kaneloa	0.01 / 0.01 / 0.01 / 0.01
:	
:Island of Maui	Inches
:ID Location	3-Hr 6-Hr 12-Hr 24-Hr
:	Windward Sites
HNAH1 : Hana Airport	0.00 / 0.00 / 0.62 / 0.62
WNKH1 : West Wailuaiki (USGS) :	0.00 / 0.00 / 0.00 / 0.02
AIKH1 : Haiku (14001) :	0.00 / 0.00 / 0.00 / 0.00
HOG : Kahului Airport	0.00 / 0.00 / 0.00 / 0.00
WUKH1 : Wailuku (14007) :	0.00 / 0.00 / 0.00 / 0.00
KHKH1 : Kahakuloa (14002) :	0.00 / 0.00 / 0.28 / 0.28
PKKH1 : Puu Kukui (USGS) :	0.00 / 0.00 / 0.01 / 0.32
:	Leeward/Upcountry Sites
KPNH1 : Kepuni (USGS) :	0.00 / 0.00 / 0.00 / 0.00
PUKH1 : Pukalani (14006) :	0.00 / 0.00 / 0.00 / 0.00
KBSH1 : Kula Branch Station (14008) :	0.00 / 0.00 / 0.00 / 0.56
KLFH1 : Kula 1	0.00 / 0.00 / 0.00 / 0.01
ULUH1 : Ulupalakua (14003) :	0.00 / 0.00 / 0.01 / 3.30
KHIH1 : Kihei #2 (14009) :	0.00 / 0.00 / 0.00 / 0.05
KPDH1 : Kealia Pond (USFWS) :	0.00 / 0.00 / 0.00 / 0.03
WCCM1 : Waikapu Country Club (14005) :	0.00 / 0.00 / 0.00 / 0.00
P36 : Maalaea Bay	0.00 / 0.00 / 0.00 / 0.00
LAHH1 : Lahainaluna (14011) :	0.00 / 0.00 / 0.00 / 0.02
MABH1 : Mahinahina (14010) :	0.00 / 0.00 / 0.00 / 0.77
:	
:Island of Hawaii	Inches
:ID Location	3-Hr 6-Hr 12-Hr 24-Hr
:	Windward Sites
UPLH1 : Upolu Airport	0.00 / 0.00 / 0.00 / 0.00
KWSH1 : Kawainui Stream (USGS) :	0.00 / 0.01 / 0.03 / 0.15
KUUH1 : Kamuela Upper (15002) :	0.00 / 0.00 / 0.01 / 0.01
KMUH1 : Kamuela (15005) :	0.00 / 0.00 / 0.00 / 0.00
HNKH1 : Honokaa	0.00 / 0.00 / 0.00 / 0.00

PMLH1 : Puu Mali	:	0.00	/	0.00	/	0.00	/	0.22
LPHH1 : Laupahoehoe (15001)	:	0.00	/	0.00	/	0.03	/	0.25
HKUH1 : Hakalau	:	0.00	/	0.00	/	0.01	/	0.01
PPWH1 : Papaikou Well (5070)	:	0.00	/	0.00	/	0.01	/	0.03
NLIH1 : Honolii Stream (USGS)	:	0.00	/	0.00	/	0.01	/	0.22
SDQH1 : Saddle Quarry (USGS)	:	0.00	/	0.00	/	0.01	/	0.01
PIIH1 : Piihonua (5020)	:	0.00	/	0.00	/	0.00	/	0.00
WKAH1 : Waiakea Uka (5030)	:	0.00	/	0.00	/	0.00	/	0.04
WEXH1 : Waiakea Experiment Stn	:	0.00	/	0.00	/	0.00	/	0.01
HTO : Hilo Airport	:	0.00	/	T	/	T	/	T
PHAH1 : Pahoia (5010)	:	0.00	/	0.00	/	0.08	/	0.08
MTVH1 : Mountain View (5000)	:	0.00	/	0.00	/	0.00	/	0.00
GLNH1 : Glenwood (5040)	:	0.00	/	0.00	/	0.00	/	0.00
KNWH1 : Kulani NWR (5050)	:	0.00	/	0.00	/	0.00	/	0.00
:	:							
MOBH1 : Mauna Loa Obs Stn	:	0.00	/	0.00	/	0.00	/	0.00
KKUH1 : Keaumo	:	0.00	/	0.00	/	0.00	/	0.00
KMOH1 : Kealakomo	:	0.00	/	0.00	/	0.00	/	0.00
PLIH1 : Pali 2	:	0.00	/	0.00	/	0.00	/	0.00
KPRH1 : Kapapala RAWs	:	0.00	/	0.00	/	0.00	/	0.00
KAYH1 : Kapapala Ranch (15003)	:	0.00	/	0.00	/	0.00	/	0.00
PPLH1 : Pahala (15004)	:	0.00	/	0.00	/	0.00	/	0.00
NENH1 : Nene Cabin	:	0.00	/	0.00	/	0.00	/	0.00
SOPH1 : South Point	:	0.00	/	0.00	/	0.00	/	0.00
LKHH1 : Lower Kahuku	:	0.00	/	0.00	/	0.00	/	0.00
KRCH1 : Kahuku Ranch	:	0.00	/	0.00	/	0.00	/	0.00
PHRH1 : Puho CS	:	0.00	/	0.00	/	0.00	/	0.00
HAUH1 : Honaunau (15007)	:	0.00	/	0.00	/	0.00	/	0.00
KLEH1 : Kealakekua (15008)	:	0.00	/	0.00	/	0.00	/	0.00
WIHH1 : Waiaha (15009)	:	0.00	/	0.00	/	0.00	/	0.00
KHOH1 : Kaloko-Honokohau	:	0.00	/	0.00	/	0.00	/	0.00
HKO : Kona International Airport	:	0.00	/	0.00	/	0.00	/	0.00
KIRH1 : Kiholo RG (USGS)	:	0.00	/	0.00	/	0.00	/	0.00
KPLH1 : Kaupulehu	:	0.00	/	0.00	/	0.00	/	0.02
PULH1 : Puuanahulu	:	0.00	/	0.00	/	0.00	/	0.04
PWWH1 : Puu Waawaa	:	0.00	/	0.00	/	0.00	/	0.11
PKAH1 : Pohakuloa Kipuka Alala	:	0.01	/	0.01	/	0.01	/	0.03
PTRH1 : Pohakuloa Range 17	:	M	/	M	/	M	/	M
PKWH1 : Pohakuloa West	:	0.00	/	0.01	/	0.01	/	0.09
PKMH1 : Pohakuloa Keamuku	:	0.00	/	0.00	/	0.00	/	0.00
AHMH1 : Ahumoa	:	0.00	/	0.00	/	0.01	/	0.09
WHIH1 : Waikii (HI90)	:	M	/	M	/	M	/	M
WKVH1 : Waikoloa	:	0.00	/	0.00	/	0.00	/	0.00
PERH1 : Puhe CS	:	0.00	/	0.00	/	0.00	/	0.00
KHRH1 : Kohala Ranch	:	0.00	/	0.01	/	0.01	/	0.01
KASH1 : Kahua Ranch (15006)	:	0.00	/	0.00	/	0.00	/	0.00
.END	:							



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Weather Forecast Office

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[Listing of archive](#)

SRHW80 PHFO 061845  
 RRAHFO  
 HAWAII RAINFALL SUMMARY  
 NATIONAL WEATHER SERVICE HONOLULU HI  
 845 AM HST Sat Aug 6 2022

:  
 .B HFO 0006 H DH08 /DRH-03/PPT/DRH-06/PPQ/DRH-12/PPK/DRH-24/PPD  
 :  
 :Automated rain gage reports from around the State of Hawaii.  
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:Island of Kauai		Inches			
:ID	Location	3-Hr	6-Hr	12-Hr	24-Hr
: Windward/Mauka Sites					
MKAH1	: Makaha Ridge	: 0.00 /	0.00 /	0.00 /	0.00
PLRH1	: Puu Lua	: 0.01 /	0.01 /	0.01 /	0.25
WKRH1	: Waiakoali (USGS)	: 0.00 /	0.00 /	0.01 /	0.63
KLOH1	: Kilohana (USGS)	: 0.00 /	0.00 /	0.01 /	1.86
MCRH1	: Mohihi Crossing (USGS)	: 0.00 /	0.00 /	0.00 /	0.83
WLGH1	: Waialae (USGS)	: 0.00 /	0.00 /	0.01 /	0.37
WNHH1	: Wainiha (12010)	: 0.00 /	0.01 /	0.01 /	0.76
HNIH1	: Hanalei (12009)	: 0.00 /	0.00 /	0.00 /	0.65
WLLH1	: Mount Waialeale (USGS)	: 0.01 /	0.01 /	0.01 /	2.20
PRIH1	: Princeville Airport	: 0.00 /	0.00 /	0.00 /	0.00
MLDH1	: Moloaa Dairy	: M /	M /	M /	M
ANHH1	: Anahola (12001)	: 0.00 /	0.00 /	0.01 /	0.01
KPIH1	: Kapahi (12003)	: 0.00 /	0.00 /	0.05 /	0.06
WLDH1	: N Wailua Ditch (USGS)	: 0.00 /	0.00 /	0.00 /	0.00
WUHH1	: Wailua (12005)	: 0.00 /	0.00 /	0.00 /	0.01
WIRH1	: Waiahi Rain Gage (USGS)	: 0.00 /	0.00 /	0.00 /	0.00
LIHH1	: Lihue Var. Stn. (12006)	: 0.01 /	0.01 /	0.01 /	0.02
HLI	: Lihue Airport	: 0.00 /	T /	T /	0.06
: Leeward Sites					
POIH1	: Poipu	: 0.00 /	0.00 /	0.00 /	0.00
OMAH1	: Omao (12004)	: 0.00 /	0.00 /	0.00 /	0.01
KHEH1	: Kalaheo (12008)	: 0.00 /	0.00 /	0.00 /	0.15
PAKH1	: Port Allen	: M /	M /	M /	M
HNP1	: Hanapepe (12002)	: 0.00 /	0.00 /	0.00 /	0.59
POPH1	: Puu Opae	: 0.00 /	0.00 /	0.00 /	0.25
WHGH1	: Waimea Heights	: 0.00 /	0.00 /	0.00 /	0.20
WMT1	: Waimea Tank (12007)	: 0.00 /	0.00 /	0.00 /	0.31
MNRH1	: Mana	: 0.00 /	0.00 /	0.00 /	0.00
: Island of Oahu					
:ID	Location	3-Hr	6-Hr	12-Hr	24-Hr
: Windward/Mauka Sites					
KAHH1	: Kahuku	: 0.00 /	0.00 /	0.00 /	0.00
KTAH1	: Kahuku Training Area	: 0.00 /	0.00 /	0.01 /	0.07
KFWH1	: Kii	: 0.00 /	0.00 /	0.00 /	0.02
PUNH1	: Punaluu Pump (13013)	: 0.02 /	0.04 /	0.04 /	0.09
PNSH1	: Punaluu Stream (USGS)	: 0.00 /	0.03 /	0.11 /	0.16
KNRH1	: Kahana (USGS)	: 0.14 /	0.53 /	0.53 /	0.55
HAKH1	: Hakipuu Mauka (13004)	: 0.04 /	0.31 /	0.31 /	0.32
WPPH1	: Waihee Pump (13002)	: 0.00 /	0.05 /	0.06 /	0.19
WSSH1	: Waiahole (USGS)	: 0.01 /	0.02 /	0.02 /	0.02
OFRH1	: Oahu Forest NWR (USFWS)	: 0.00 /	0.00 /	0.00 /	0.01
AHUH1	: Ahuimanu Loop (13005)	: 0.00 /	0.00 /	0.00 /	0.09
HRRH1	: Heeia NERR	: 0.00 /	0.00 /	0.00 /	0.05
LULH1	: Luluku (13016)	: 0.00 /	0.03 /	0.03 /	0.26
NUUH1	: Nuuanu Upper (13007)	: 0.00 /	0.00 /	0.00 /	0.00
MNLH1	: Manoa Lyon Arboretum (3050)	: 0.00 /	0.00 /	0.00 /	0.00
STVH1	: St. Stephens (13006)	: 0.00 /	0.04 /	0.17 /	0.18
MAUH1	: Maunawili (13008)	: 0.01 /	0.14 /	0.23 /	0.23
OFSH1	: Olomana Fire Station (13009)	: 0.00 /	0.02 /	0.02 /	0.29
WMLH1	: Waimanalo (13011)	: 0.00 /	0.00 /	0.00 /	0.02
BELH1	: Bellows AFS	: 0.00 /	0.00 /	0.00 /	0.00
KMH1	: Kamehame (13012)	: 0.00 /	0.00 /	0.00 /	0.00



HAIH1 : Hawaii Kai Golf Crse (13015) :	0.00 / 0.00 / 0.00 / 0.00
: Leeward/Central Sites	
NIUH1 : Niu Valley (13001) :	0.00 / 0.00 / 0.00 / 0.00
PFSH1 : Palolo Fire Station (13010) :	0.00 / 0.00 / 0.00 / 0.01
ALOH1 : Aloha Tower (HI26) :	M / M / M / M
HNL : Honolulu Airport :	0.00 / 0.00 / 0.00 / 0.00
MOAH1 : Moanalua (13003) :	0.00 / 0.00 / 0.00 / 0.20
MOGH1 : Moanalua RG (USGS) :	0.00 / 0.00 / 0.00 / 0.01
TNLH1 : Tunnel RG (USGS) :	0.00 / 0.00 / 0.00 / 0.01
PACH1 : Palisades (3020) :	0.00 / 0.00 / 0.00 / 0.00
WAWH1 : Waiawa C.F. (3070) :	0.00 / 0.00 / 0.00 / 0.00
MITH1 : Mililani (3040) :	0.00 / 0.00 / 0.00 / 0.00
SCBH1 : Schofield Barracks :	0.00 / 0.00 / 0.00 / 0.00
SCEH1 : Schofield East :	0.00 / 0.00 / 0.00 / 0.03
WAFH1 : Wheeler Airfield :	0.00 / 0.00 / 0.00 / 0.00
POAH1 : Poamoho (3000) :	0.00 / 0.00 / 0.00 / 0.22
KMRH1 : Kamananui Stream (USGS) :	0.00 / 0.00 / 0.00 / 0.29
PPRH1 : Pupukeya Road (USGS) :	0.01 / 0.01 / 0.01 / 0.28
PMRH1 : Poamoho RG 1 (USGS) :	0.18 / 0.18 / 0.26 / 0.27
DLGH1 : Dillingham :	0.00 / 0.00 / 0.00 / 0.01
PECH1 : Waipio (3010) :	0.00 / 0.00 / 0.00 / 0.00
KUNH1 : Kunia Substation (3030) :	0.00 / 0.00 / 0.00 / 0.00
WVWH1 : Waiawa :	0.00 / 0.00 / 0.00 / 0.00
HOFH1 : Honouliuli :	0.00 / 0.00 / 0.00 / 0.00
PTWH1 : Ewa Beach USGS (3060) :	0.00 / 0.00 / 0.00 / 0.00
HJR : Kalaeloa Airport :	0.00 / 0.00 / 0.00 / 0.00
PLHH1 : Palehua :	0.00 / 0.00 / 0.00 / 0.00
LUAH1 : Lualualei (HI05) :	M / M / M / M
WVWH1 : Waianae Valley :	0.00 / 0.00 / 0.00 / 0.00
WBHH1 : Waianae Boat Harbor :	0.00 / 0.00 / 0.00 / 0.00
WAIH1 : Waianae (13014) :	0.00 / 0.00 / 0.03 / 0.03
MKHH1 : Makaha Stream (USGS) :	0.00 / 0.00 / 0.00 / 0.00
MKRH1 : Makua Range :	0.00 / 0.00 / 0.00 / 0.00
MKGH1 : Makua Ridge :	0.00 / 0.00 / 0.00 / 0.00
MAPH1 : Makua Portable :	M / M / M / M
KKRH1 : Kuaokala :	0.00 / 0.00 / 0.00 / 0.01

: Island of Molokai		Inches			
:ID	Location	3-Hr	6-Hr	12-Hr	24-Hr
KMLH1	: Kamalo (HI73)	M /	M /	M /	M
MKPH1	: Makapulapai	0.00 /	0.00 /	0.00 /	0.00
PAFH1	: Puu Alii	0.00 /	0.00 /	0.00 /	0.00
MLKH1	: Molokai 1	0.00 /	0.00 /	0.00 /	0.00
KACH1	: Kaunakakai Mauka (14004)	0.00 /	0.00 /	0.00 /	0.00
HMK	: Molokai Airport	0.00 /	0.00 /	0.00 /	0.00

: Island of Lanai		Inches			
:ID	Location	3-Hr	6-Hr	12-Hr	24-Hr
LANH1	: Lanai City (14012)	0.00 /	0.00 /	0.00 /	0.00
HNY	: Lanai Airport	0.00 /	0.00 /	0.00 /	0.00
LNIH1	: Lanai 1	0.00 /	0.00 /	0.00 /	0.00

: Island of Kahoolawe		Inches			
:ID	Location	3-Hr	6-Hr	12-Hr	24-Hr
KAOH1	: Kaneloa	0.00 /	0.00 /	0.00 /	0.00

: Island of Maui		Inches			
:ID	Location	3-Hr	6-Hr	12-Hr	24-Hr
: Windward Sites					
HNAH1	: Hana Airport	0.00 /	0.05 /	0.15 /	0.15
WVKH1	: West Wailuaiki (USGS)	0.00 /	0.00 /	0.00 /	0.00
AIKH1	: Haiku (14001)	0.00 /	0.00 /	0.00 /	0.00
HOG	: Kahului Airport	0.00 /	0.00 /	0.00 /	0.00
WUKH1	: Wailuku (14007)	0.00 /	0.00 /	0.00 /	0.00
KHKH1	: Kahakuloa (14002)	0.00 /	0.00 /	0.00 /	0.00
PKKH1	: Puu Kukui (USGS)	0.00 /	0.00 /	0.00 /	0.00
: Leeward/Upcountry Sites					
KPNH1	: Kepuni (USGS)	0.00 /	0.00 /	0.00 /	0.00
PUKH1	: Pukalani (14006)	0.00 /	0.00 /	0.00 /	0.00
KBSH1	: Kula Branch Station (14008)	0.00 /	0.00 /	0.00 /	0.00
KLFH1	: Kula 1	0.00 /	0.00 /	0.00 /	0.01
ULUH1	: Ulupalakua (14003)	0.00 /	0.00 /	0.00 /	0.00
KHIH1	: Kihei #2 (14009)	0.00 /	0.00 /	0.00 /	0.00
KPDH1	: Kealia Pond (USFWS)	0.00 /	0.00 /	0.00 /	0.00
WCC1	: Waikapu Country Club (14005)	0.00 /	0.00 /	0.00 /	0.00
P36	: Maalaea Bay	0.00 /	0.00 /	0.00 /	0.00
LAHH1	: Lahainaluna (14011)	0.00 /	0.00 /	0.00 /	0.00
MABH1	: Mahinahina (14010)	0.00 /	0.00 /	0.00 /	0.00

: Island of Hawaii		Inches			
:ID	Location	3-Hr	6-Hr	12-Hr	24-Hr
: Windward Sites					
UPLH1	: Upolu Airport	0.00 /	0.00 /	0.00 /	0.00
KWSH1	: Kawaunui Stream (USGS)	0.00 /	0.00 /	0.03 /	0.03
KUUH1	: Kamuela Upper (15002)	0.00 /	0.00 /	0.00 /	0.00
KMUH1	: Kamuela (15005)	0.00 /	0.00 /	0.00 /	0.01
HNKH1	: Honokaa	0.00 /	0.00 /	0.00 /	0.01

PMLH1	: Puu Mali	:	0.00	/	0.00	/	0.00	/	0.12
LPHH1	: Laupahoehoe (15001)	:	0.00	/	0.00	/	0.13	/	0.25
HKUH1	: Hakalau	:	0.00	/	0.04	/	0.25	/	0.50
PPWH1	: Papaikou Well (5070)	:	0.00	/	0.00	/	0.56	/	1.42
NLIH1	: Honolii Stream (USGS)	:	0.02	/	0.02	/	0.71	/	1.94
SDQH1	: Saddle Quarry (USGS)	:	0.00	/	0.00	/	0.33	/	0.87
PIIH1	: Piihonua (5020)	:	0.00	/	0.00	/	0.51	/	0.88
WKAH1	: Waiakea Uka (5030)	:	0.00	/	0.01	/	0.48	/	0.93
WEXH1	: Waiakea Experiment Stn	:	0.00	/	0.00	/	0.42	/	0.58
HTO	: Hilo Airport	:	0.00	/	0.00	/	0.08	/	0.28
PHAH1	: Pahoa (5010)	:	0.00	/	0.00	/	0.02	/	0.20
MTVH1	: Mountain View (5000)	:	0.00	/	0.00	/	0.41	/	0.51
GLNH1	: Glenwood (5040)	:	0.00	/	0.01	/	0.36	/	0.57
KNWH1	: Kulani NWR (5050)	:	0.00	/	0.00	/	0.38	/	0.54
:	: Leeward Sites	:							
MOBH1	: Mauna Loa Obs Stn	:	0.00	/	0.00	/	0.00	/	0.00
KKUH1	: Keaumo	:	0.00	/	0.02	/	0.47	/	0.48
KMOH1	: Kealakomo	:	0.00	/	0.00	/	0.37	/	0.42
PLIH1	: Pali 2	:	0.00	/	0.00	/	0.17	/	0.48
KPRH1	: Kapapala RAWs	:	0.00	/	0.00	/	0.10	/	0.15
KAYH1	: Kapapala Ranch (15003)	:	0.00	/	0.00	/	0.10	/	0.18
PPLH1	: Pahala (15004)	:	0.00	/	0.00	/	0.09	/	0.19
NENH1	: Nene Cabin	:	0.00	/	0.00	/	0.03	/	0.11
SOPH1	: South Point	:	0.00	/	0.00	/	0.00	/	0.01
LKHH1	: Lower Kahuku	:	0.00	/	0.00	/	0.05	/	0.26
KRCH1	: Kahuku Ranch	:	0.00	/	0.00	/	0.00	/	0.00
PHRH1	: Puho CS	:	0.00	/	0.00	/	0.00	/	0.00
HAUH1	: Honaunau (15007)	:	0.00	/	0.00	/	0.00	/	0.00
KLEH1	: Kealakekua (15008)	:	0.00	/	0.00	/	0.00	/	0.00
WIHH1	: Waiaha (15009)	:	0.00	/	0.00	/	0.00	/	0.01
KHOH1	: Kaloko-Honokohau	:	0.00	/	0.00	/	0.00	/	0.00
HKO	: Kona International Airport	:	0.00	/	0.00	/	0.00	/	0.00
KIRH1	: Kiholo RG (USGS)	:	0.00	/	0.00	/	0.00	/	0.00
KPLH1	: Kaupulehu	:	0.00	/	0.00	/	0.00	/	0.00
PULH1	: Puuanahulu	:	0.00	/	0.00	/	0.00	/	0.00
PWHH1	: Puu Waawaa	:	0.00	/	0.00	/	0.00	/	0.00
PKAH1	: Pohakuloa Kipuka Alala	:	0.00	/	0.00	/	0.00	/	0.00
PTRH1	: Pohakuloa Range 17	:	M	/	M	/	M	/	M
PKWH1	: Pohakuloa West	:	0.00	/	0.00	/	0.00	/	0.00
PKMH1	: Pohakuloa Keamuku	:	0.00	/	0.00	/	0.00	/	0.00
AHMH1	: Ahumoa	:	0.00	/	0.00	/	0.00	/	0.00
WHIH1	: Waikii (HI90)	:	M	/	M	/	M	/	M
WKVH1	: Waikoloa	:	0.00	/	0.00	/	0.00	/	0.00
PERH1	: Puhe CS	:	0.00	/	0.00	/	0.00	/	0.00
KHRH1	: Kohala Ranch	:	0.00	/	0.00	/	0.00	/	0.00
KASH1	: Kahua Ranch (15006)	:	0.00	/	0.00	/	0.00	/	0.00
.	END	:							



## Hawaii Rainfall Summary 90 Day Archive

[Weather.gov](http://Weather.gov) > [Honolulu, HI](http://Honolulu.HI) > Hawaii Rainfall Summary 90 Day Archive

Honolulu, HI  
Weather Forecast Office

[Current Hazards](#)   [Current Conditions](#)   [Radar](#)   [Forecasts](#)   [Rivers and Lakes](#)   [Climate and Past Weather](#)   [Local Programs](#)

### [Listing of archive](#)

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SRHW80 PHFO 231845
RRAHFO
HAWAII RAINFALL SUMMARY
NATIONAL WEATHER SERVICE HONOLULU HI
845 AM HST Tue Aug 23 2022

:
.B HFO 0823 H DH08 /DRH-03/PPT/DRH-06/PPQ/DRH-12/PPK/DRH-24/PPD
:
:Automated rain gage reports from around the State of Hawaii.
:These are provisional reports that have not been quality
:controlled.
:
:T=Trace Rainfall, M=Missing Data
:
:Precipitation totals ending 8 AM HST
:
:Island of Kauai
:ID Location 3-Hr 6-Hr 12-Hr 24-Hr
: Windward/Mauka Sites
MKAH1 : Makaha Ridge : 0.00 / 0.00 / 0.00 / 0.00
PLRH1 : Puu Lua : 0.00 / 0.00 / 0.00 / 0.00
WKRH1 : Waiakoali (USGS) : 0.00 / 0.00 / 0.00 / 0.00
KLOH1 : Kilohana (USGS) : 0.01 / 0.01 / 0.01 / 0.01
MCRH1 : Mohihi Crossing (USGS) : 0.00 / 0.00 / 0.00 / 0.00
WLGH1 : Waialae (USGS) : 0.00 / 0.00 / 0.00 / 0.00
WNHH1 : Wainiha (12010) : 0.00 / 0.00 / 0.01 / 0.01
HNIH1 : Hanalei (12009) : 0.03 / 0.08 / 0.14 / 0.14
WLLH1 : Mount Waialeale (USGS) : 0.00 / 0.00 / 0.01 / 0.01
PRIH1 : Princeville Airport : 0.06 / 0.08 / 0.27 / 0.27
MLDH1 : Moloaa Dairy : M / M / M / M
ANHH1 : Anahola (12001) : 0.00 / 0.00 / 0.00 / 0.01
KPIH1 : Kapahi (12003) : 0.00 / 0.00 / 0.00 / 0.00
WLDH1 : N Wailua Ditch (USGS) : 0.00 / 0.00 / 0.00 / 0.01
WUHH1 : Wailua (12005) : 0.01 / 0.01 / 0.02 / 0.02
WIRH1 : Waiahi Rain Gage (USGS) : 0.00 / 0.00 / 0.00 / 0.00
LIHH1 : Lihue Var. Stn. (12006) : 0.11 / 0.20 / 0.25 / 0.25
HLI : Lihue Airport : T / T / 0.01 / 0.01
: Leeward Sites
POIH1 : Poipu : 0.00 / 0.00 / 0.00 / 0.00
OMAH1 : Omao (12004) : 0.00 / 0.00 / 0.00 / 0.03
KHEH1 : Kalaheo (12008) : 0.00 / 0.00 / 0.00 / 0.00
PAKH1 : Port Allen : M / M / M / M
HNPH1 : Hanapepe (12002) : 0.00 / 0.00 / 0.00 / 0.00
POPH1 : Puu Opae : 0.00 / 0.00 / 0.00 / 0.00
WHGH1 : Waimea Heights : 0.00 / 0.00 / 0.00 / 0.00
WMTH1 : Waimea Tank (12007) : 0.00 / 0.00 / 0.00 / 0.00
MNRH1 : Mana : 0.00 / 0.00 / 0.00 / 0.00
:
:Island of Oahu
:ID Location 3-Hr 6-Hr 12-Hr 24-Hr
: Windward/Mauka Sites
KAHH1 : Kahuku : 0.37 / 0.37 / 0.75 / 0.75
KTAH1 : Kahuku Training Area : 0.13 / 0.14 / 0.32 / 0.32
KFWH1 : Kii : 0.32 / 0.33 / 0.58 / 0.58
PUNH1 : Punaluu Pump (13013) : 0.48 / 0.59 / 0.78 / 0.82
PNSH1 : Punaluu Stream (USGS) : 0.50 / 0.66 / 0.88 / 1.06
KNRH1 : Kahana (USGS) : 0.65 / 0.73 / 1.15 / 1.26
HAKH1 : Hakipuu Mauka (13004) : 0.98 / 1.23 / 1.60 / 1.62
WPPH1 : Waihee Pump (13002) : 0.43 / 0.52 / 1.37 / 1.37
WHS1 : Waiahole (USGS) : 1.35 / 1.43 / 1.92 / 1.92
OFRH1 : Oahu Forest NWR (USFWS) : 0.36 / 0.36 / 0.52 / 0.56
AHUH1 : Ahuimanu Loop (13005) : 0.38 / 0.46 / 0.71 / 0.71
HRRH1 : Heeia NERR : 0.44 / 0.54 / 0.77 / 0.77
LULH1 : Luluku (13016) : 0.60 / 0.74 / 1.26 / 1.30
NUUH1 : Nuuanu Upper (13007) : 0.56 / 0.59 / 0.85 / 0.85
MNLH1 : Manoa Lyon Arboretum (3050) : 0.36 / 0.38 / 0.53 / 0.54
STVH1 : St. Stephens (13006) : 0.71 / 0.95 / 1.36 / 1.36
MAUH1 : Maunawili (13008) : 0.58 / 0.96 / 1.37 / 1.38
OFSH1 : Olomana Fire Station (13009) : 0.24 / 0.79 / 0.97 / 0.97
WMLH1 : Waimanalo (13011) : 0.17 / 0.69 / 0.69 / 0.78
BELH1 : Bellows AFS : 0.07 / 0.91 / 0.91 / 0.91
KMH1 : Kamehame (13012) : 0.02 / 0.77 / 0.79 / 0.89

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HJH1 : Hawaii Kai Golf Crse (13015):	0.00 / 0.60 / 0.61 / 0.69
: Leeward/Central Sites	
NIUH1 : Niu Valley (13001) :	0.01 / 0.22 / 0.23 / 0.25
PFSH1 : Palolo Fire Station (13010) :	0.17 / 0.23 / 0.23 / 0.23
ALOH1 : Aloha Tower (HI26) :	M / M / M / M
HNL : Honolulu Airport :	0.00 / T / T / T
MOAH1 : Moanalua (13003) :	0.47 / 0.47 / 0.52 / 0.52
MOGH1 : Moanalua RG (USGS) :	0.31 / 0.36 / 0.68 / 0.75
TNLH1 : Tunnel RG (USGS) :	0.22 / 0.23 / 0.47 / 0.49
PACH1 : Palisades (3020) :	0.04 / 0.04 / 0.16 / 0.16
WAWH1 : Waiawa C.F. (3070) :	0.04 / 0.06 / 0.22 / 0.22
MITH1 : Mililani (3040) :	0.02 / 0.02 / 0.08 / 0.08
SCBH1 : Schofield Barracks :	0.02 / 0.02 / 0.05 / 0.05
SCEH1 : Schofield East :	0.33 / 0.33 / 0.41 / 0.42
WAFH1 : Wheeler Airfield :	0.13 / 0.13 / 0.22 / 0.23
POAH1 : Poamoho (3000) :	0.00 / 0.00 / 0.00 / 0.00
KMRH1 : Kamananui Stream (USGS) :	0.08 / 0.08 / 0.17 / 0.17
PPRH1 : Pupukea Road (USGS) :	0.11 / 0.11 / 0.18 / 0.20
PMKH1 : Poamoho RG 1 (USGS) :	0.45 / 0.49 / 0.97 / 1.14
DLGH1 : Dillingham :	0.00 / 0.00 / 0.00 / 0.00
PECH1 : Waipio (3010) :	0.00 / 0.00 / 0.00 / 0.00
KUNH1 : Kunia Substation (3030) :	0.00 / 0.00 / 0.00 / 0.00
WVWF1 : Waiawa :	0.00 / 0.00 / 0.01 / 0.01
HOFH1 : Honouliuli :	0.00 / 0.00 / 0.00 / 0.00
PTWH1 : Ewa Beach USGS (3060) :	0.00 / 0.00 / 0.00 / 0.00
HJR : Kalaeloa Airport :	0.00 / 0.00 / 0.00 / 0.00
PLHH1 : Palehua :	0.00 / 0.00 / 0.00 / 0.00
LUAH1 : Lualualei (HI05) :	M / M / M / M
WVNH1 : Waianae Valley :	0.00 / 0.00 / 0.00 / 0.00
WBHH1 : Waianae Boat Harbor :	0.00 / 0.00 / 0.00 / 0.00
WAIH1 : Waianae (13014) :	0.00 / 0.00 / 0.00 / 0.00
MKH1 : Makaha Stream (USGS) :	0.00 / 0.00 / 0.00 / 0.00
MKRH1 : Makua Range :	0.00 / 0.00 / 0.00 / 0.00
MKGH1 : Makua Ridge :	0.00 / 0.00 / 0.01 / 0.01
MAPH1 : Makua Portable :	M / M / M / M
KKRH1 : Kuaokala :	0.00 / 0.00 / 0.00 / 0.00
:	
:Island of Molokai	Inches
:ID Location	3-Hr 6-Hr 12-Hr 24-Hr
KMLH1 : Kamalo (14013) :	0.00 / 0.00 / 0.07 / 0.20
MKPH1 : Makapulapai :	0.00 / 0.00 / 0.00 / 0.00
PAFH1 : Puu Alii :	0.01 / 0.05 / 0.18 / 1.74
MLKH1 : Molokai 1 :	0.03 / 0.03 / 0.03 / 0.15
KACH1 : Kaunakakai Mauka (14004) :	0.00 / 0.00 / 0.00 / 0.01
HMK : Molokai Airport :	0.00 / 0.00 / 0.00 / 0.04
:	
:Island of Lanai	Inches
:ID Location	3-Hr 6-Hr 12-Hr 24-Hr
LANH1 : Lanai City (14012) :	0.00 / 0.02 / 0.05 / 0.31
HNY : Lanai Airport :	0.00 / 0.00 / 0.03 / 0.07
LNIH1 : Lanai 1 :	0.00 / 0.00 / 0.05 / 0.21
:	
:Island of Kahoolawe	Inches
:ID Location	3-Hr 6-Hr 12-Hr 24-Hr
KACH1 : Kaneohe :	0.00 / 0.04 / 0.20 / 0.20
:	
:Island of Maui	Inches
:ID Location	3-Hr 6-Hr 12-Hr 24-Hr
:	Windward Sites
HNAH1 : Hana Airport :	0.05 / 0.10 / 0.25 / 0.56
WVNH1 : West Wailuaiki (USGS) :	0.01 / 0.02 / 0.13 / 0.70
AIKH1 : Haiku (14001) :	0.00 / 0.00 / 0.09 / 0.31
HOG : Kahului Airport :	0.00 / 0.00 / 0.00 / 0.02
WUKH1 : Wailuku (14007) :	0.00 / 0.00 / 0.00 / 0.09
KHKH1 : Kahakuloa (14002) :	0.00 / 0.00 / 0.00 / 0.47
PKKH1 : Puu Kukui (USGS) :	0.01 / 0.01 / 0.10 / 0.64
:	Leeward/Upcountry Sites
KPNH1 : Kepuni (USGS) :	0.00 / 0.02 / 0.07 / 0.07
PUKH1 : Pukalani (14006) :	0.00 / 0.00 / 0.00 / 0.03
KBSH1 : Kula Branch Station (14008) :	0.00 / 0.00 / 0.05 / 0.23
KLFH1 : Kula 1 :	0.00 / 0.01 / 0.05 / 0.07
ULUH1 : Ulupalakua (14003) :	0.01 / 0.01 / 0.01 / 0.07
KHIH1 : Kihei #2 (14009) :	0.01 / 0.01 / 0.01 / 0.03
KPDH1 : Kealia Pond (USFWS) :	0.00 / 0.07 / 0.07 / 0.07
WCC1 : Waikapu Country Club (14005) :	0.00 / 0.00 / 0.00 / 0.03
P36 : Maalaea Bay :	0.00 / 0.08 / 0.08 / 0.08
LAHH1 : Lahainaluna (14011) :	0.00 / 0.05 / 0.05 / 0.05
MABH1 : Mahinahina (14010) :	0.00 / 0.08 / 0.08 / 0.20
:	
:Island of Hawaii	Inches
:ID Location	3-Hr 6-Hr 12-Hr 24-Hr
:	Windward Sites
UPLH1 : Upolu Airport :	0.00 / 0.00 / 0.37 / 0.74
KWSH1 : Kawainui Stream (USGS) :	0.00 / 0.00 / 0.01 / 1.08
KUUH1 : Kamuela Upper (15002) :	0.00 / 0.00 / 0.04 / 0.54
KMUH1 : Kamuela (15005) :	0.01 / 0.01 / 0.02 / 0.82
HNH1 : Honokaa :	0.00 / 0.00 / 0.01 / 0.14

PMLH1 : Puu Mali	:	0.00 / 0.01 / 0.02 / 0.15
LPHH1 : Laupahoehoe (15001)	:	0.00 / 0.00 / 0.00 / 0.05
HKUH1 : Hakalau	:	0.00 / 0.00 / 0.01 / 0.13
PPWH1 : Papaikou Well (5070)	:	0.00 / 0.00 / 0.12 / 0.19
NLIH1 : Honolii Stream (USGS)	:	0.00 / 0.01 / 0.19 / 0.35
SDQH1 : Saddle Quarry (USGS)	:	0.00 / 0.00 / 0.01 / 0.17
PIIH1 : Piihonua (5020)	:	0.01 / 0.01 / 0.04 / 0.19
WKAH1 : Waiakea Uka (5030)	:	0.00 / 0.00 / 0.01 / 0.03
WEXH1 : Waiakea Experiment Stn	:	0.11 / 0.11 / 0.11 / 0.11
HTO : Hilo Airport	:	0.06 / 0.06 / 0.09 / 0.09
PHAH1 : Pahoa (5010)	:	M / M / M / M
MTVH1 : Mountain View (5000)	:	0.16 / 0.16 / 0.18 / 0.18
GLNH1 : Glenwood (5040)	:	0.01 / 0.01 / 0.27 / 0.27
KNWH1 : Kulani NWR (5050)	:	0.00 / 0.02 / 0.02 / 0.09
:		Leeward Sites
MOBH1 : Mauna Loa Obs Stn	:	0.00 / 0.00 / 0.00 / 0.00
KKUH1 : Keaumo	:	0.00 / 0.00 / 0.03 / 0.52
KMOH1 : Kealakomo	:	0.13 / 0.13 / 0.13 / 0.13
PLIH1 : Pali 2	:	0.00 / 0.00 / 0.00 / 0.03
KPRH1 : Kapapala RAWs	:	0.00 / 0.00 / 0.00 / 0.00
KAYH1 : Kapapala Ranch (15003)	:	0.00 / 0.00 / 0.00 / 0.00
PPLH1 : Pahala (15004)	:	0.01 / 0.01 / 0.01 / 0.01
NENH1 : Nene Cabin	:	0.00 / 0.00 / 0.00 / 0.30
SOPH1 : South Point	:	0.00 / 0.01 / 0.02 / 0.02
LKHH1 : Lower Kahuku	:	0.00 / 0.00 / 0.00 / 0.05
KRCH1 : Kahuku Ranch	:	0.00 / 0.00 / 0.00 / 0.04
PHRH1 : Puho CS	:	0.00 / 0.00 / 0.00 / 0.00
HAUH1 : Honaunau (15007)	:	0.00 / 0.00 / 0.00 / 0.07
KLEH1 : Kealakekua (15008)	:	0.00 / 0.00 / 0.00 / 0.00
WIHH1 : Waiaha (15009)	:	0.00 / 0.00 / 0.00 / 0.00
KHCH1 : Kaloko-Honokohau	:	0.00 / 0.00 / 0.00 / 0.00
HKO : Kona International Airport	:	0.00 / 0.00 / 0.00 / 0.00
KIRH1 : Kiholo RG (USGS)	:	0.00 / 0.00 / 0.00 / 0.00
KPLH1 : Kaupulehu	:	0.00 / 0.00 / 0.00 / 0.00
PULH1 : Puuanahulu	:	0.00 / 0.01 / 0.01 / 0.04
PMWH1 : Puu Waawaa	:	0.00 / 0.00 / 0.00 / 0.00
PKAH1 : Pohakuloa Kipuka Alala	:	0.00 / 0.00 / 0.00 / 0.05
PTRH1 : Pohakuloa Range 17	:	M / M / M / M
PKWH1 : Pohakuloa West	:	0.00 / 0.00 / 0.00 / 0.05
PKMH1 : Pohakuloa Keamuku	:	0.00 / 0.00 / 0.00 / 0.48
AHHH1 : Ahumoa	:	0.00 / 0.00 / 0.01 / 0.05
WHIH1 : Waikii (HI90)	:	M / M / M / M
WKVH1 : Waikoloa	:	0.00 / 0.00 / 0.00 / 0.04
PERH1 : Puhe CS	:	0.00 / 0.00 / 0.00 / 0.00
KHRH1 : Kohala Ranch	:	0.00 / 0.00 / 0.00 / 0.01
KASH1 : Kahua Ranch (15006)	:	0.00 / 0.01 / 0.13 / 0.48
.END		

# EXHIBIT C

## STATE OF HAWAII

### DEPARTMENT OF HEALTH NOTICE OF VIOLATION AND ORDER

<b>TO:</b> Mr. Chad Waters Managing Member Sound Investments, LLC 1050 Bishop Street, Suite 303 Honolulu, Hawaii 96813  Respondent	<b>NOVO No. 2018-CW-EO-17</b> <i>Please write this NOVO number on all correspondence</i>  Re: Violation of Hawaii Water Pollution Rules and Regulations  Property/Facility: 42-100 Old Kalaniana'ole Road, Kailua, Hawaii 96734
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The Department of Health (DOH) issues this Notice of Violation and Order (NOVO) under Hawaii Revised Statutes (HRS), Chapters 91 and 342D, based on findings from the February 20, 2018 inspection of Olomana Heights Subdivision, formerly known as Dey Family Subdivision at 42-100 Old Kalaniana'ole Road, Kailua, Hawaii; TMK (1) 4-2-005:008; (1) 4-2-005:009; (1) 4-2-005:010 (Site) and subsequent file reviews performed by the DOH, Clean Water Branch (CWB).

Attached as exhibits are:

- Inspection Report from the February 20, 2018 inspection of the Site (Exhibit A);
- Olomana Heights Subdivision Discharge Memo dated April 12, 2018 (Exhibit B);
- Olomana Heights Subdivision Start of Construction Memo dated April 12, 2018 (Exhibit C);
- The Renewal Notice of General Permit Coverage (NGPC), File No. HIR10C666 issued to Sound Investments, LLC (Permittee) for the Dey Family Subdivision (Exhibit D);
- The NGPC, File No. HIR10E366 issued to Sound Investments, LLC for the Dey Family Subdivision (1) (Exhibit E);
- The Notice of Intent (NOI) dated April 8, 2014 for NGPC, File No. HIR10E366 (Exhibit F); and
- Olomana Heights Subdivision map obtained from the GreeneWaters website <http://greenewaters.com/portfolios/olomana-heights/> on March 27, 2018 (Exhibit G).

This case deals only with violations alleged below. The DOH may bring other cases for other violations. This case does not limit cases by any other public agency or private party.

Statutes/Rules	Nature of the Violation
<p>HRS, §342D-9, HRS, §342D-31, HRS, §342D-50(a) HRS, §342D-50(d) HAR, §11-55-34.8(j)(2)</p>	<p><b>Olomana Heights Subdivision, formerly known as Dey Family Subdivision</b></p> <p><u>Background</u> Sound Investments, LLC was issued NGPC, File No. HIR10C666 authorizing the discharge of storm water associated with construction activities for the Dey Family Subdivision at 42-100 Old Kalaniana'ole Road. The NGPC, File No. HIR10C666 became effective February 20, 2007. On October 19, 2012, the NGPC was administratively extended prior to renewal. The renewed NGPC became effective on December 9, 2013 (Exhibit D). The NGPC was closed after receiving a Notice of Cessation on December 16, 2017 from the Permittee.</p> <p>On May 13, 2014, Sound Investments, LLC was issued a second NGPC, File No. HIR10E366 authorizing the discharge of storm water associated with construction activities at the Dey Family Subdivision (Exhibit E). Upon receiving a Notice of Cessation from the Permittee on December 16, 2017, the DOH-CWB closed NGPC, File No. HIR10E366.</p> <p>On February 20, 2018, the DOH-CWB conducted an inspection of the Site, to determine whether Olomana Heights Subdivision discharged pollutants to State waters without authorization. Based on observations made during the inspection, the DOH finds that Sound Investments, LLC began construction activities which were greater than one (1) acre without National Pollutant Discharge Elimination System (NPDES) permit coverage and illegally discharged sediment from the Site to State waters.</p> <p>The HRS, §342D-50(a), states that "no person, including any public body, shall discharge any water pollutant into state waters, or cause or allow any water pollutant to enter state waters except in compliance with this chapter, rules adopted pursuant to this chapter, or a permit or variance issued by the director."</p> <p>The HRS, §342D-50(d), states that "no person, including and public body, shall violate any rule adopted pursuant to this chapter or any permit or variance issued or modified pursuant to this chapter."</p> <p><u>1. Discharged Sediment Laden Storm Water Without Required NPDES Permit Coverage</u></p> <p>On February 18, 2018, Respondent violated HRS §342D-50(a) by discharging or causing or allowing pollutants including sediment from the Site at 42-100 Old Kalaniana'ole Road to enter a tributary of Kaelepulu Stream, a Class 2 Inland State water, without a DOH permit to discharge.</p>

	<p>The violation was caused by Respondent's failure to implement Best Management Practices (BMPs) to prevent discharges of polluted storm water to State waters as would be required by an NPDES permit.</p> <p>Based on the details above, the DOH finds that Respondent violated HRS §342D-50(a) on one (1) count by discharging or causing or allowing pollutants from the Site to State waters on February 18, 2018 (Exhibit A and Exhibit B).</p> <p><b><u>2. Initiated Activity/Discharge Without Required NPDES Permit Coverage</u></b></p> <p>On February 1, 2018, Respondent failed to comply with HAR, §11-55-34.8(j)(2,) which requires the submission of a Notice of Intent (NOI) to the CWB prior to initiating construction activity, by clearing lots 1, 2, &amp; 3 at the Site without having submitted an NOI to the CWB.</p> <p>Based on the details above, the DOH finds that Respondent violated HRS §342D-50(d) on one (1) count by initiating activity at the Site without required NPDES permit coverage on February 1, 2018 (Exhibit A and Exhibit C).</p>
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The facts of this case and the law justify the following order.

### ORDER

You are ordered to:

1. Immediately begin implementation of erosion and sediment control BMPs at the Site to prevent further polluted discharges. At a minimum, you must implement all BMPs as are required by HAR §11-55, Appendix C.
2. Within 30 calendar days of service, submit a storm water pollution prevention plan that meets the requirements of HAR §11-55, Appendix C, which details all BMPs implemented at the Site for DOH review and comment.
3. Within 30 calendar days of services, submit a complete application for an NPDES permit authorizing the discharge of storm water associated with construction activity.
4. Pay an administrative penalty of \$28,000.00 within 20 calendar days of the service of this NOVO. Send a certified check for \$28,000.00 to: Clean Water Branch, Department of Health, 2827 Waimano Home Road, Room 225, Pearl City, Hawaii, 96782. The payment should be made payable to "State of Hawaii" and include the NOVO reference number, 2018-CW-EO-17.

The provisions of this Notice of Violation and Order shall become final unless, within 20 calendar days after receipt, you submit a written request for a hearing, along with a copy of the NOVO, without exhibit(s), to:



Hearing Officer  
c/o Director of Health  
1250 Punchbowl St., Third Floor  
Honolulu, Hawaii 96813

You may file the hearing request in person at the Director's office listed above, during regular business hours, or may mail the same to the above address within the allotted time. **Failure to timely file the hearing request and related documents may result in a denial of your hearing request.**

If a hearing is properly requested, a pre-hearing conference will be set by the Hearings Officer and you will be notified of the date, time and place of the pre-hearing conference.

The hearing will be conducted in accordance with Chapter 91 of the Hawaii Revised Statutes and Title 11, Chapter 1 of the Hawaii Administrative Rules.


At the hearing, the parties may present relevant evidence and argument on the issues raised by this case. The parties may also examine and cross-examine witnesses and present exhibits. The parties may seek to avoid any penalty, and DOH may seek the maximum penalty of Twenty-five Thousand Dollars (\$25,000) per day, per violation, although the actual penalty amount may be lower, or none.


Parties may be represented by legal counsel at their own expense. An individual may appear on his/her own behalf, or a member of a partnership may represent the partnership, or an officer or authorized employee of a corporation, or trust, or association may represent the corporation, trust or association.

After such hearing, the Order shall be affirmed, modified or rescinded by the Director or Hearings Officer.

All inquiries regarding this matter, besides the request for hearing, shall be directed to: Mr. Matthew Kurano, Supervisor of the Enforcement Section, CWB, at (808) 586-4309.

If you have special needs due to a disability that will aid you in participating in the hearing or pre-hearing conference, please contact the Hearings Officer at (808) 586-4409 (voice) or through the Telecommunications Relay Service (711), at least ten (10) working days before the hearing or pre-hearing conference date.

  
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KEITH E. KAWAOKA, D.Env.  
Deputy Director for  
Environmental Health

Date: 4/18/18   
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Approved As To Form By:  
Mr. Edward G. Bohlen  
Deputy Attorney General