



TRANSMITTAL REQUIREMENTS AND CERTIFICATION STATEMENT FOR E-PERMITTING NOTICE OF INTENT (NOI) SUBMISSIONS

1. Submission and File Numbers

e-Permitting Submission #: HNB-3HNZ-ZWHQ2

I am submitting a (check only one):

Initial NOI.

Revised NOI, File Number: _____

NOI for an Already Issued NGPC, Current NGPC File Number: _____

2. Certification Statement

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature  Date Signed 7/19/18

Printed First and Last Name Suzanne D. Case

3. Transmittal Requirements (Check all.)

I have read the instructions on Pages 2 and 3.

If I do not follow all of the instructions on Pages 2 and 3, I acknowledge that:

a. This submittal will not be accepted by the Clean Water Branch (CWB);

b. Processing of my NOI will not begin;

c. I am delaying the processing of my NOI; and

d. The CWB may deny my request for NPDES general permit coverage with or without prejudice.

The signature provided in Item No. 2 is an original signature.

My CD or DVD is attached. This CD or DVD contains only the downloaded e-Permitting submission identified in Item No. 1 above. I have not altered this file.

4. Filing Fee (Check the applicable box.)

A \$500 check made payable to the State of Hawaii is attached.

The filing fee was paid online through the e-Permitting Portal.

I am submitting a Revised NOI. My filing fee has already been paid under the initial submittal.

I am a State agency, and I am requesting a Bill for Collection.

IMPORTANT INSTRUCTIONS:

You are required to follow these instructions to complete your e-Permitting NOI submittal. Failure to follow all of these instructions will delay the processing of your submittal and may result in the denial of your request for NPDES general permit coverage. **Processing of your submission will not begin until the Clean Water Branch (CWB) receives all of the items below.**

Item No. 1 – Submission and File Numbers

- a. Enter your e-Permitting Submission #. You may find your unique e-Permitting Submission # (e.g. 15H-ZGVV-421H) in your History Link of the e-Permitting Portal. If you are submitting a revised NOI, the e-Permitting Submission # will contain the version (e.g. 15H-ZGVV-421H, v1).
- b. Check only one (1) box to indicate if you are submitting an Initial NOI (new submittal) or a Revised NOI (revised submittal to address CWB comments) or a NOI for an Already Issued NGPC (see Item No. 1.d below).
- c. Enter your file number if you are revising an Initial NOI to respond to CWB comments. The CWB comments will contain the file number. You will not need to provide a file number if you are submitting an Initial NOI.
- d. Enter your current NGPC file number if you are submitting a NOI for an Already Issued NGPC. A NOI for an Already Issued NGPC is required if there are any changes to the information previously provided. NGPCs can no longer be modified and reissued. Once the NGPC is issued, any changes to the information provided during the NOI processing (except changes to BMPs) will require another NOI with filing fee and another NGPC to be issued. Upon issuance of the NGPC, the existing NGPC will be terminated.

Item No. 2 – Certification Statement

- a. This is the certification statement for the e-Permitting submission # identified in Item No. 1.
- b. Enter the Printed First and Last Name.
 - i. For an Initial NOI and a NOI for an Already Issued NGPC, the Printed First and Last Name must be the Certifying Person identified in Section No. 2 of the e-Permitting NOI form.
 - ii. For Revised NOI submittals, the Printed First and Last Name may be either the Certifying Person identified in Section No. 2 of the e-Permitting NOI form or the duly authorized representative identified in Section No. 8 of the e-Permitting NOI form.
- c. Enter the Date Signed.
- d. Provide an original Certification signature (hard copy of this form). Someone else may sign "for" the individual listed in the Printed First and Last Name.

Item No. 3 – Transmittal Requirements

- a. You are required to check all of the boxes.
- b. Provide a CD or DVD containing only the e-Permitting submission in PDF or ZIP. To download the submission, click on the History Link in the e-Permitting Portal (after you submitted the application). Locate your submission and press the view button under the Action column. Then you may either:
 - i. Press the Print button, scan the document, save the document as a PDF, and save the PDF and all your attachments on the CD or DVD; or
 - ii. Press the Print Screen button on your keyboard, paste the image into a text editor (e.g. MS Word), convert the text file as a PDF, and save the PDF and all your attachments on the CD or DVD; or
 - iii. Press the Download Submission button. A PDF file will be generated if you have no attachments. A ZIP file will be created if you have attachments. Save the PDF or ZIP file on the CD or DVD.

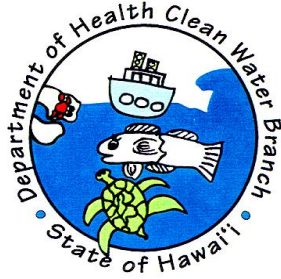
Do not add additional files to the CD or DVD. Your CD or DVD shall match your e-Permitting submission #.

Item No. 4 – Filing Fee

- a. You are required to check only one (1) of the boxes.
- b. A \$500 filing fee is required for an Initial NOI and a NOI for an Already Issued NGPC.
- c. If you are a State agency, you may request a Bill for Collection.

Additional

- a. Mail or deliver this form and all attachments to the Department of Health, Clean Water Branch, Hale Ola, Room 225, 2827 Waimano Home Road, Pearl City, Oahu, Hawaii 96782.



State of Hawaii, Department of Health, Clean Water Branch

NOI Form C

NOI for HAR, Chapter 11-55, Appendix C - NPDES General Permit Authorizing Discharges of Storm Water Associated With Construction Activities (as defined in 40 CFR §§122.26(b)(14)(x) and 122.26(b)(15)(i))

All sections of this form MUST be completed for National Pollutant Discharge Elimination System (NPDES) General Permit compliance.

C.1 – General Information

You are required to fulfill all requirements and check the box below. If you do not check the box, your NOI will be considered incomplete, and the CWB may deny your request for NPDES permit coverage with prejudice.

I certify that:

- I prepared a Storm Water Pollution Prevention Plan (SWPPP) in accordance with HAR, Chapter 11-55, Appendix C, Section 7 prior to submitting this NOI.
- I will comply with all terms, conditions, and requirements in HAR Chapter 11-55, Appendix C.
- I will implement, operate, and maintain my SWPPP to ensure that storm water discharges associated with construction activities will not violate HAR, Chapter 11-54; HAR, Chapter 11-55; and HAR, Chapter 11-55, Appendix C.

C.2 - Existing Pollution Sources/ History of Land Use

Describe the history of land use at the existing Facility/Project site: The project site was previously a public beach. In 1980, DLNR purchased the land and currently the Malaekahana SRA is a recreational area used by day park users and overnight campers.

Determine if the existing Facility/Project site may contain any existing pollution source(s) by using the following references. Place a check next to all references you utilized to determine existing pollution source(s). You are required to check at least one reference.

- a. DOH, Solid and Hazardous Waste Branch-Hawaii Underground Storage Tank- Leaking Underground Storage Tank database
- b. DOH, Hazard Evaluation and Emergency Response Office records
- c. Phase I and/or Phase II Environmental Site Assessments, as applicable
- d. Recent site inspections
- e. Past land use history

f. Soil sampling data, if available

g. Other (specify): _____

Describe any existing pollution source(s) identified in the references you checked above: No existing pollution sources were found.

Describe any corrective measures that have been undertaken for any existing pollution source(s): N/A

C.3 - Construction Site Estimates

Please provide the following estimates for the construction site.

Total project area including areas to be left undisturbed: 36.22 acres

Construction site area to be disturbed including storage and staging areas: 4 acres

Impervious area before construction: 0.20 acres

Impervious area after construction: 0.60 acres

C.4 - Quantity of Storm Water Runoff

Estimate the quantity of storm water runoff during construction when the greatest and/or maximum area of disturbance occurs. Provide the supporting calculations in an attachment or insert in this section.

N/A Millions of Gallons per Day (MGD)

or

112.15 (See Attachment 4, Table A4-2) Cubic Feet per Second (CFS)

C.5 - Soil Characterization

Describe the nature of the soil on the project site (including the potential to encounter contaminated soil) and the nature of the fill material to be used: Soils in the project site consist of deep, mainly nearly level and gently sloping, poorly drained to excessively drained soils with fine-textured to coarse-textured subsoil or underlying material. The predominant soil type in the vicinity is classified as Jaucus sand (JaC), 0 to 15 percent slopes. The JaC soil type is characterized by rapid permeability and very slow to slow runoff. The project site also contains light-colored beach sand.

C.6 - Nature and Sequence of Construction Activity

What is the function of the construction activity (Please check all applicable activity(ies))?

- Residential Commercial Industrial Road Construction Linear Utility
 Other (please specify): State Recreation Area

What is being constructed? The project proposes to replace the existing unpaved road throughout the park with a new gravel road. Two new gravel parking areas will be constructed. Other proposed improvements also include a comfort station, satellite restroom, cabin, and 3 pot wash stations.

Describe the scope of work and major construction activities you wish to be covered in this NOI, including baseyards and staging areas. You may only include project areas where the locations of impervious structures are known; project areas where the final grades are known; and work areas that will be performed by one (1) general contractor. A separate NOI will be required for all other project areas.

Work includes replacing the existing unpaved road with a new gravel road, constructing a comfort station, satellite restroom, ADA accessible cabin, three pot wash stations, and two new gravel parking areas for day users. Three new IWS systems which will include a leach field and septic tank will also be constructed as well as a new waterline that will provide service to the new structures and six new fire hydrants throughout the site.

C.7 - Existing or Pending Permits, Licenses, or Approvals

Place a check next to all applicable Federal, State, or County permits, Licenses, or approvals for the project and specify the permit number.

Other NPDES Permit or NGPC File No.: N/A

Department of the Army Permit (Section 404): N/A

If your project requires work in, above, under or adjacent to State waters, please contact the Army Corps of Engineers (COE) Regulatory Branch at (808) 438-9258 regarding their permitting requirements. Provide a copy of the COE permitting jurisdictional determination (JD) or the JD with COE Person's Name, Phone Number, and Date Contacted.

Facility on SARA 313 List (identify SARA 313 chemicals on project site): N/A

RCRA Permit (Hazardous Wastes): N/A

Section 401 Water Quality Certification: N/A

Other (Specify): _____

County-approved Erosion and Sediment Control Plan and/or Grading Permit

- a. Is a County-approved Erosion and Sediment Control Plan and/or Grading Permit, where applicable for the activity and schedule for implementing each control, required?
- Yes. Please complete Section C.7.b below and skip Section C.7.c.
- No. Please complete Section C.7.c below and skip Section C.7.b.
- b. Is a copy County-approved Erosion and Sediment Control Plan and/or Grading Permit, as appropriate for the activity and schedule for implementing each control, attached?
- Yes, see Attachment _____
- No, the County-approved Erosion and Sediment Control Plan and/or Grading Permit, as appropriate for the activity and schedule for implementing each control, will be submitted at least 30 calendar days before the start of construction activities.
- c. Please select and complete at least one (1) of the following items to demonstrate that a County-approved Erosion and Sediment Control Plan and/or Grading Permit, as appropriate for the activity and schedule for implementing each control, is not required.
- See Attachment _____ for the County written determination.
- Provide the County contact person information (Name, Department, Phone Number, and Date Contacted): _____
- The project is a Federal Project and does not require County approval.
- Other (specify): _____

C.8 - Project Site Maps and Construction Plans/Drawings

Attach, title, and identify all maps (pdf - minimum 300 dpi) listed below, in Attachment A.

Please reference which maps account for the features listed below.

- a. Island on which the project is located. Oahu, See attachment A-1
- b. Vicinity of the project on the island. Kahuku, Oahu, See attachment A-1
- c. Legal boundaries of the project. See Attachment A-1
- d. Receiving State water(s) from Section 6 of e-Permitting form and receiving separate drainage system(s) from Section 7 of e-Permitting form, identified and labeled. See Attachment A-1
- e. Location of ALL discharge points from Section 6 of e-Permitting form with identification numbers. See Attachment A-1
- f. Boundaries of 100-Year flood plans. See Attachment A-4
- g. Areas of soil disturbance. See Attachment A-1
- h. Location(s) of impervious structures (including buildings, roads, parking lots, etc.) after construction is completed. See Attachment A-3

- i. *Pre-Construction Topography including approximate slopes and drainage patterns for the entire Facility/Project site to the receiving storm water drainage system (if applicable) or to the receiving State water(s) (with flow arrows). See Attachment A-2*
- j. *During-Construction Topography (after major grading activities) including approximate slopes and drainage patterns for the entire Facility/Project site to the receiving storm water drainage system (if applicable) or to the receiving State water(s) (with flow arrows). See Attachment A-3*
- k. *Post-Construction Topography including approximate slopes and drainage patterns for the entire Facility/Project site to the receiving storm water drainage system (if applicable) or to the receiving State water(s) (with flow arrows). See Attachment A-3*

C.9 - Construction Schedule

Provide the following estimated dates:

The date when construction activity will begin. January 12, 2019

The date when each major construction activity begins. January 19, 2019

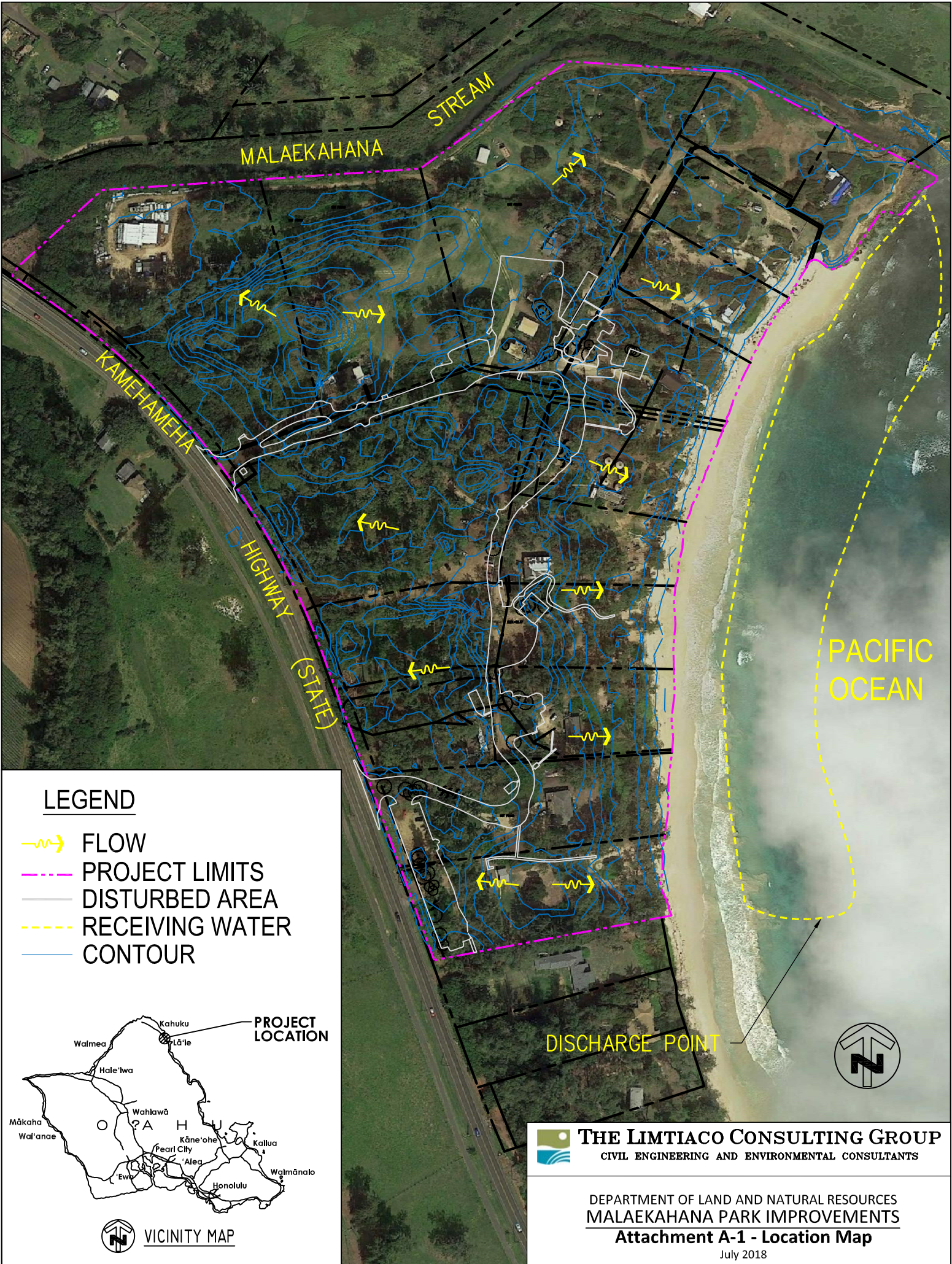
The date when the Notice of Cessation form will be submitted. January 12, 2020

Site Specific BMPs Plan Attachments





Attachment A - Project Site Maps and Construction Plans/Drawings (Section C.8)

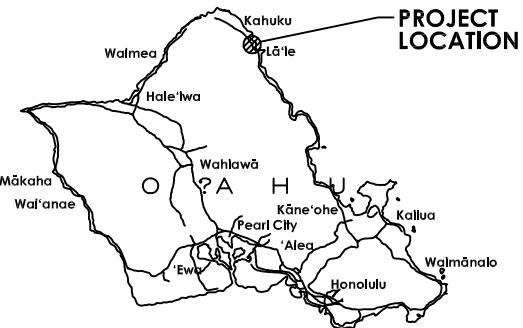
PROJECT SITE MAPS, CONSTRUCTION PLANS/DRAWINGS

- A-1 Project Location Map and Discharge Location
- A-2 Existing Conditions
- A-3 Erosion Control Drawings
- A-4 Quantity of Storm Water Discharge
- A-5 Flood Hazard Areas



LEGEND

-  FLOW
-  PROJECT LIMITS
-  DISTURBED AREA
-  RECEIVING WATER
-  CONTOUR



 VICINITY MAP

DISCHARGE POINT



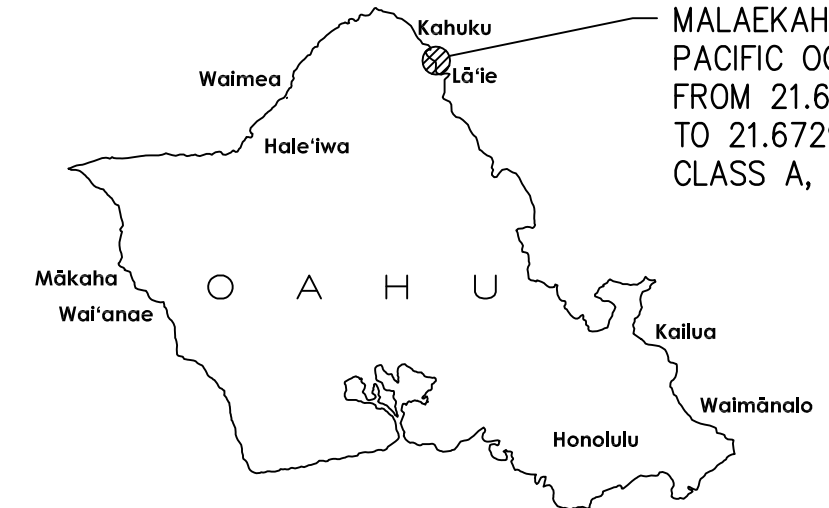
THE LIMTIACO CONSULTING GROUP
CIVIL ENGINEERING AND ENVIRONMENTAL CONSULTANTS

DEPARTMENT OF LAND AND NATURAL RESOURCES
MALAEKAHANA PARK IMPROVEMENTS

Attachment A-1 - Location Map

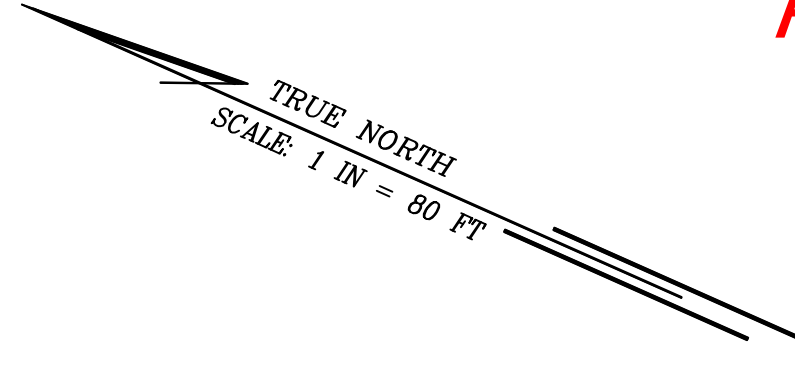
July 2018

Attachment A-3



MALAEKAHANA SRA - KAHUKU SECTION
 PACIFIC OCEAN
 FROM 21.668968, -157.936738
 TO 21.672917, -157.935611
 CLASS A, MARINE

- PRE-CONSTRUCTION STRUCTURAL CONTROL BMPs**
- INGRESS/EGRESS
 - SEDIMENT BARRIER (FILTER SOCK)
- DURING CONSTRUCTION STRUCTURAL CONTROL BMPs**
- TEMPORARILY SLOPE PROTECTION
 - TEMPORARY STABILIZATION
 - BMPs FOR STOCKPILES, STAGING AREA, STORAGE AREAS, ETC.
- POST-CONSTRUCTION BMPs**
- GRAVEL COVER
 - GRASSING
 - AC PAVEMENT
 - CONCRETE WALKWAYS
- GOOD HOUSEKEEPING**
- SEE EROSION CONTROL NOTES SHEET FOR DETAILS



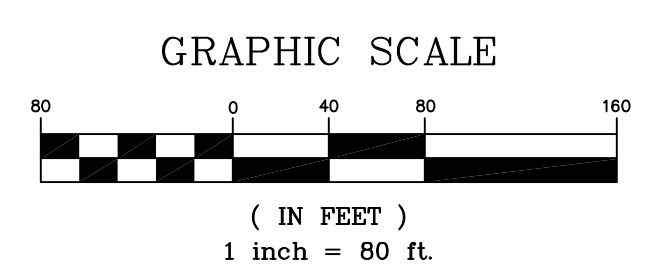
NOTES:

- FOR CATEGORY 5 PROJECTS, AN ESCP COORDINATOR IS REQUIRED. THE ESCP COORDINATOR IS RESPONSIBLE FOR IMPLEMENTING THE ESCP AT THE PROJECT SITE. THE NAME, PHONE NUMBER, MAILING ADDRESS, AND EMAIL ADDRESS OF THE ESCP COORDINATOR SHALL BE SUBMITTED TO DPP TWO (2) WEEKS PRIOR TO COMMENCEMENT OF WORK.
- THE CONTRACTOR SHALL SUBMIT A WRITTEN PROJECT SCHEDULE AS REQUIRED BY CITY AND COUNTY OF HONOLULU'S RULES RELATING TO WATER QUALITY SECTION 20-3-28 TO DPP FOR APPROVAL.
- THE CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM THE DIRECTOR AT EACH STAGE OF DEVELOPMENT BEFORE PROCEEDING TO THE NEXT STAGE IN DEVELOPMENT.
- SEE ESCP-1 FOR ADDITIONAL NOTES AND BMP DETAILS.

LEGEND:

- PROPERTY LINE
- - - LIMITS OF WORK, GRADING AND DISTURBED AREA
- 110— NEW GRADE CONTOUR
- - -110- - - EXIST. CONTOUR
- FLOW DIRECTION
- WS POT WASH STATION
- SR SATELLITE RESTROOM
- FILTER SOCK
- ▨ CONSTRUCTION INGRESS/EGRESS
- ▩ EXIST. VEGETATIVE BUFFER ZONE
- Impervious surfaces

PROJECT CLASSIFICATION:
 (PER CITY'S RULES RELATING TO WATER QUALITY)
 CATEGORY: 5
 PRIORITY: A



EROSION AND SEDIMENT CONTROL PLAN
 SCALE: 1" = 80'

APPROVED: _____ DATE _____
 CHIEF, CIVIL ENGINEERING BRANCH, DPP

REVISION NO.	SYM.	DESCRIPTION	SHT. OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
MALAEKAHANA SRA - KAHUKU SECTION PARK IMPROVEMENTS O'AHU, HAWAII					
EROSION AND SEDIMENT CONTROL PLAN					
DESIGNED: JK, CJ			SUBMITTED: JUNE 2018		
DRAWN: AK, CJ			DATE: XXXX		
CHECKED: JL			SCALE: 1"=80'		
APPROVED: _____			DATE _____		
CHIEF ENGINEER			DATE		
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.					ESCP-2

L:\PROJECTS\63 - DLNR\16308 - Malaekahana Park Impr\DRAWINGS\EROSION AND SEDIMENT CONTROL PLAN.dwg - 6/19/2018 12:36 PM

Attachment A-4 Quantity of Storm Water Discharge

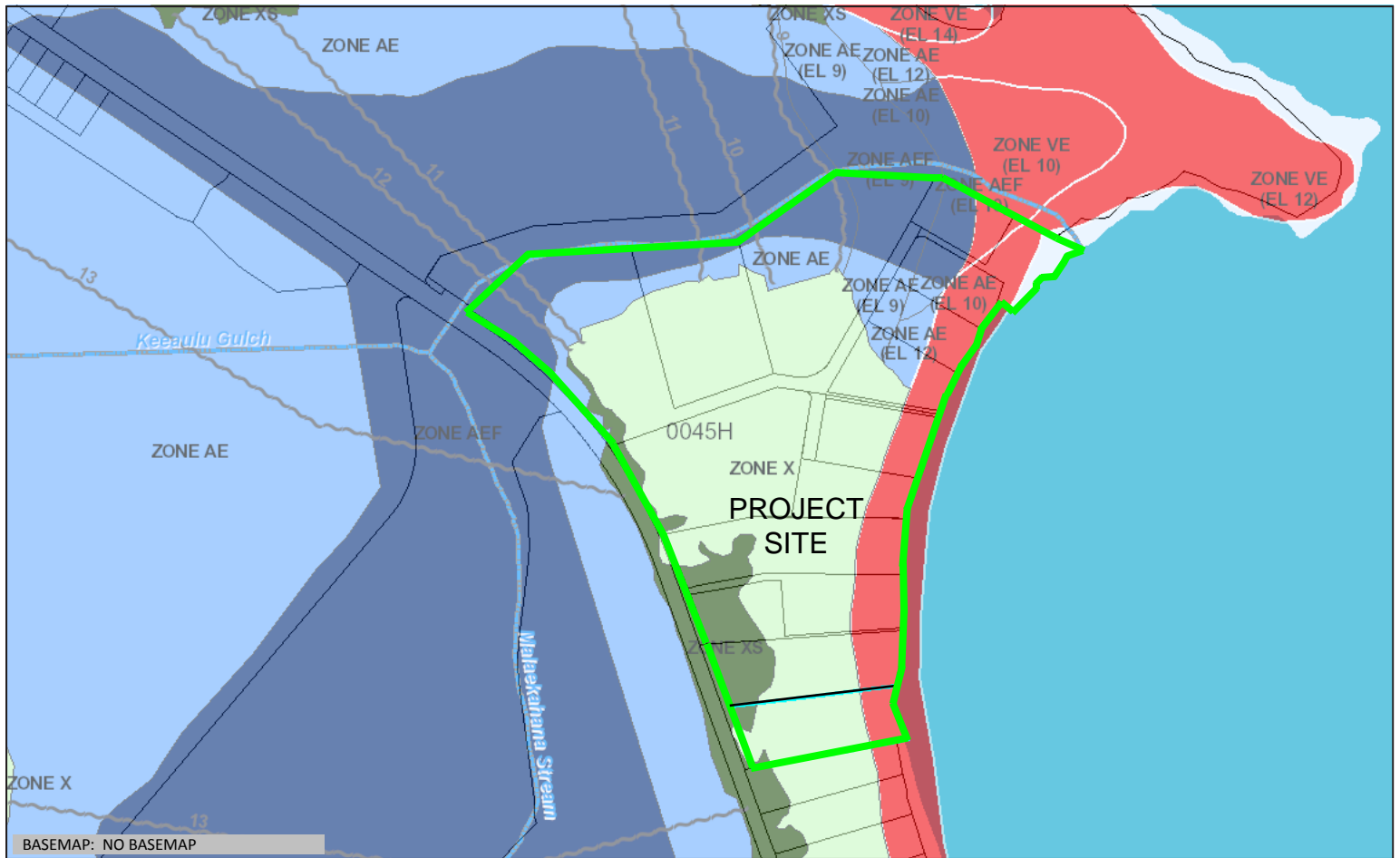
Stormwater flow rates were calculated using the *Rules Relating to Storm Drainage Standards* (City and County of Honolulu, 2000) for drainage areas of 100 acres or less. The Rational Method, $Q = CIA$ was used to compute estimated peak design runoff flow quantities (for drainage areas of 100 acres or less). The design flows were based on a 10-year recurrence interval (for drainage areas of 100 acres or less). Plates 1, 3, and 4 of the *Rules Relating to Storm Drainage Standards* were used to calculate the Rainfall Intensity at each site.

Table A4-1: Pre-Construction Condition

Drainage Area	Runoff Coefficient	Rainfall Intensity (in/hr)	Project Area (ac)	Flow Rate (cfs)
1	0.65	$1.75 * 2.65 = 4.64$	3.14	9.47
2	0.65	$1.80 * 2.65 = 5.04$	10.81	33.52
3	0.65	$1.75 * 2.65 = 4.64$	8.13	24.51
4	0.65	$1.80 * 2.65 = 5.04$	5.47	16.96
5	0.65	$1.85 * 2.65$	8.66	27.63

Table A4-2: Post-Construction Condition

Description	Runoff Coefficient	Rainfall Intensity (in/hr)	Project Area (ac)	Flow Rate (cfs)
1	0.65	$1.75 * 2.65 =$ 4.64	3.14	9.47
2	0.66	$1.80 * 2.65 = 4.77$	11.02	34.44
3	0.66	$1.70 * 2.65 = 4.77$	8.18	24.50
4	0.66	$1.75 * 2.65 = 4.90$	5.47	16.79
5	0.65	$1.85 * 2.65 = 5.17$	8.41	26.95



BASEMAP: NO BASEMAP



Flood Hazard Assessment Report

www.hawaiiinfip.org

Attachment A-5

FLOOD HAZARD ASSESSMENT TOOL LAYER LEGEND

(Note: legend does not correspond with NFHL)

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD - The 1% annual chance flood (100-year), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. SFHAs include Zone A, AE, AH, AO, V, and VE. The Base Flood Elevation (BFE) is the water surface elevation of the 1% annual chance flood. Mandatory flood insurance purchase applies in these zones:

	Zone A: No BFE determined.
	Zone AE: BFE determined.
	Zone AH: Flood depths of 1 to 3 feet (usually areas of ponding); BFE determined.
	Zone AO: Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined.
	Zone V: Coastal flood zone with velocity hazard (wave action); no BFE determined.
	Zone VE: Coastal flood zone with velocity hazard (wave action); BFE determined.
	Zone AEF: Floodway areas in Zone AE. The floodway is the channel of stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without increasing the BFE.

NON-SPECIAL FLOOD HAZARD AREA - An area in a low-to-moderate risk flood zone. No mandatory flood insurance purchase requirements apply, but coverage is available in participating communities.

	Zone XS (X shaded): Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.
	Zone X: Areas determined to be outside the 0.2% annual chance floodplain.

OTHER FLOOD AREAS

	Zone D: Unstudied areas where flood hazards are undetermined, but flooding is possible. No mandatory flood insurance purchase apply, but coverage is available in participating communities.
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THIS PROPERTY IS WITHIN A TSUNAMI EVACUATION ZONE: YES
FOR MORE INFO, VISIT: <http://www.scd.hawaii.gov/>

THIS PROPERTY IS WITHIN A DAM EVACUATION ZONE: NO
FOR MORE INFO, VISIT: <http://dlnreg.hawaii.gov/dam/>



Disclaimer: The Hawaii Department of Land and Natural Resources (DLNR) assumes no responsibility arising from the use, accuracy, completeness, and timeliness of any information contained in this report. Viewers/Users are responsible for verifying the accuracy of the information and agree to indemnify the DLNR, its officers, and employees from any liability which may arise from its use of its data or information.

If this map has been identified as 'PRELIMINARY', please note that it is being provided for informational purposes and is not to be used for flood insurance rating. Contact your county floodplain manager for flood zone determinations to be used for compliance with local floodplain management regulations.

Storm Water Pollution Prevention Plan (SWPPP)

Malaekahana SRA – Kahuku Section
Park Improvements
Honolulu, Oahu, Hawaii
TMK: (1) 5-6-001:024, 045-047, 049-065

56-335 Kamehameha Highway
Kahuku, Hawaii 96731

Prepared For:
State of Hawai'i
Department of Land and Natural Resources
Engineering Division
1151 Punchbowl St. #221
Honolulu, Hawaii 96813
(808)-587-0230

Prepared By:
The Limitaco Consulting Group
1622 Kananui Street
Honolulu, Hawaii 96817
(808) 596-7790

July 2018

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Attachment D	Site Specific BMP Inspection Report Form
Attachment E	Site Specific Amendment Log

SECTION 1: GENERAL INFORMATION

The Storm Water Pollution Prevention Plan (SWPPP) identifies potential sources of storm water pollution at the construction site; describes storm water control measures to reduce or eliminate pollutants in storm water discharges from the construction site; and identifies procedures the permittee will implement to comply with the terms and conditions of the National Pollutant Discharge Elimination System (NPDES) General permit.

1.1 Storm Water Team

Owner Information

Company or Organization: State of Hawai'i Department of Land and Natural Resources - Engineering Division
Address: 1151 Punchbowl St. #221
City, State, Zip Code: Honolulu, Hawaii 96813
Project Tax Map Key: TMK: (1) 5-6-001:024, 045-047, 049-065

Contact Person: To be determined at a later date.

Contact Person's Title:

Contact Email:

Contact Phone Number:

Responsibilities: Oversee development of the SWPPP

Contact Person: To be determined at a later date.

Contact Person's Title:

Contact Email:

Contact Phone Number:

Responsibilities: Ensure compliance with the requirements of the NPDES Permit including installation and maintenance of storm water controls, site inspections, enforcing corrective actions as needed, and modifying the onsite SWPPP as required

Owner's Representative

Company or Organization: The Limtiaco Consulting Group
Address: 1622 Kananui Street
City, State, Zip Code: Honolulu, Hawaii 96817
Contact Person & Title: Jason Lau, Principal
Contact Email: jason@tlcghawaii.com
Contact Phone Number: (808) 596-7790
Responsibilities: Support Owner with compliance of NPDES requirements, observe installation and maintenance of storm water controls, perform periodic site inspections, recommend corrective actions and modifications to the SWPPP as needed.

General Contractor Information: To be determined at a later date

Company or Organization:
Address:
City, State, Zip Code:
Contact Person:
Contact Person's Title:
Contact Email:
Contact Phone Number:

Subcontractor Information: To be determined at a later date if necessary

Company or Organization:
Address:
City, State, Zip Code:
Contact Person:
Contact Person's Title:
Contact Email:
Contact Phone Number:

Owner's Emergency 24-Hour Contact

Company or Organization:
Contact Person:
Contact Phone Number:

1.2 Related Permits/Approvals

City and County of Honolulu, Department of Planning and Permitting
Grading Permit, pending

State of Hawaii, Department of Health
NPDES Permit for Construction Activities, pending

State of Hawaii, Department of Transportation
Permit to Discharge into the State Highways Drainage System, pending

SECTION 2: PROJECT INFORMATION

2.1 Site Information

Project Name: Malaekahana State Recreation Area – Park Improvements

Project Location: 56-335 Kamehameha Highway

City, State, Zip Code: Kahuku, Hawaii 96731

Project Latitude/Longitude: 21°40'15.5"N 157°56'18.0"W (Google Maps)

Project Located Within 50' of State Water: Yes

Item	
Project Site Area:	36.22 acres
Total Area to be Disturbed *	4 acres, including grading
Total Area to be Disturbed at Any One Time:	4

* Note: Includes areas for contractor staging and access.

2.2 Project Description

The project is located along Kamehameha Highway in Kahuku, Oahu, Hawaii. The proposed improvements will generally be located within the State-owned Malaekahana SRA (TMK 1-5-6-001:024, 045-047, 049-065). Driveway improvements and utility connections will extend into the Kamehameha Highway right-of-way which is under the jurisdiction of the State of Hawaii.

The Malaekahana SRA is currently used by day park users and overnight campers. Existing facilities include an unpaved access road through the park, rental cabins, a caretaker's dwelling, an office building, and maintenance shed. The access road currently has a driveway connection at both the North and South ends of the park that allow vehicles access to and from Kamehameha Highway.

The project proposes to replace the existing unpaved road throughout the park with a new gravel road that ranges from 16 to 24 feet wide. The wider road width is primarily to meet current fire code requirements. The two existing driveway connections to Kamehameha Highway will remain. Two (2) new gravel parking areas will be constructed to accommodate day park users. Proposed improvements also include a comfort station, satellite restroom, cabin, and 3 pot wash stations. The proposed improvements will generally be located along the roadway to keep the disturbance area near a centralized location. The disturbed area is projected to be approximately 4 acres.

2.3 Construction Schedule

The schedule shown below is a preliminary estimate. The Contractor shall submit the actual timetable for all onsite construction activities. The SWPPP shall be updated accordingly.

The date when construction activity will begin: January 12, 2019

The date when each major construction activity begins: January 19, 2019

The date when the Notice of Cessation form will be submitted: January 12, 2020

Construction Activity	Start Date
Installation of BMPs	January 12, 2019
Major construction activity begins	January 19, 2019
Vegetate Remaining Exposed Areas (Permanent Stabilization)	October 14, 2019
Remove BMPs	January 12, 2020

SECTION 3: CONSTRUCTION ACTIVITY BEST MANAGEMENT PRACTICES

3.1 Special Conditions for Land Disturbance

The owner and/or general contractor agrees that at a minimum, they will comply with all conditions as stated below from Section No. 11 of HAR, Chapter 11-55, Appendix C, under Special Conditions for Land Disturbances.

"(a) Construction Management Techniques

- (1) Clearing and grubbing shall be held to the minimum necessary for grading and equipment operation.
- (2) Construction shall be sequenced to minimize the exposure time of the cleared surface area.
- (3) Construction shall be staged or phased for large projects. Areas of one phase shall be stabilized before another phase is initiated. Stabilization shall be accomplished by temporarily or permanently protecting the disturbed soil surface from rainfall impacts and runoff.
- (4) Erosion and sediment control measures shall be in place and functional before earth moving operations begin. These measures shall be properly constructed and maintained throughout the construction period.
- (5) All control measures shall be checked and repaired as necessary, for example, weekly in dry periods and within twenty-four hours after any rainfall of 0.25 inches or greater within a 24-hour period. During prolonged rainfall, daily checking is necessary. The permittee shall maintain records of checks and repairs.
- (6) The permittee shall maintain records of the duration and estimated volume of storm water discharge(s).
- (7) A specific individual shall be designated to be responsible for erosion and sediment controls on each project site.

(b) Vegetation Controls

- (1) Pre-construction vegetative ground cover shall not be destroyed, removed, or disturbed more than twenty calendar days prior to land disturbance.
- (2) Temporary soil stabilization with appropriate vegetation shall be applied on areas that will remain unfinished for more than thirty calendar days.
- (3) Permanent soil stabilization with perennial vegetation or pavement shall be applied as soon as practical after final grading. Irrigation and maintenance of the perennial vegetation shall be provided for thirty calendar days or until the vegetation takes root, whichever is shorter.

- (c) **Structural Controls**
- (1) Storm water flowing toward the construction area shall be diverted by using appropriate control measures, as practical.
 - (2) Erosion control measures shall be designed according to the size of disturbed or drainage areas to detain runoff and trap sediment.
 - (3) Water must be discharged in a manner that the discharge shall not cause or contribute to a violation of the basic water quality criteria as specified in HAR, Chapter 11-54, Section 11-54-4.”

3.2 Potential Storm Water Pollutant Sources

This section identifies the potential storm water pollution sources associated with the proposed construction activities including, but not limited to, the contents in **Table 1**. Discharges to State Waters composed of pollutants associated with the proposed activities will comply with the Hawaii Revised Statutes (HAR), Chapter 11-55 Appendix A, Section 1 (Basic Water Quality Criteria) to the maximum extent possible. A description of measures to be implemented onsite during construction to prevent potential sources of pollution at the project site and comply with the Basic Water Quality Criteria is provided below.

All solid waste shall be disposed of at DOH, Solid and Hazardous Waste Branch (SHWB), Solid Waste Section (SWS) permitted facilities. If solid waste cannot be disposed at these facilities, the SHWB-SWS at (808) 586-4226 will be contacted as additional permits may be required.

Table 1. Potential Sources of Storm Water Pollutants

Source/Material	Description of measures to prevent potential pollutants from discharging with storm water runoff	Construction Activity
Construction debris, green waste; general litter	<p>All contaminated clean up materials will be separated from construction and demolition wastes. All Construction and recycling areas will be inspected regularly to prevent discharge of pollutants.</p> <p>All construction debris, green waste and general litter shall be removed and properly disposed of off-site on a weekly basis or sooner as necessary. Prior to off-site removal, debris shall be stored in covered dumpsters or areas with sediment and pollution control. Any items that could leach will be stored in covered dumpsters. Any items that could</p>	Demolition, Site Work, & Landscaping

Source/Material	Description of measures to prevent potential pollutants from discharging with storm water runoff	Construction Activity
	cause sediment will be confined with a compost filter sock.	
Sediment from soil stockpiles	Stockpiles will be placed a minimum of 50 feet from concentrated runoff areas and covered prior to rain events. Compost filter socks placed at the toes of the stockpiles will be used to mitigate runoff during rain events and control sediment.	Grading, Trenching
Soil erosion from the disturbed areas	Work will be sequenced to minimize the area of disturbance as well as the exposure time of the cleared surface. Erosion and sediment control measures such as compost filter socks and stabilized gravel construction entrances will be implemented and maintained throughout the construction period. Existing ground depressions throughout the site will be used as sediment traps. Existing vegetation throughout the site will also be used as vegetative buffer strips. All disturbed areas will be restored to the original condition or better.	Grading, Trenching
Materials associated with the operation and maintenance of equipment, such as oil, fuel, and hydraulic fluid leakage	Absorbent materials will be kept on site and used as required. All waste shall be properly disposed of. Equipment and vehicles will be properly maintained to mitigate leaks; weekly inspections of equipment will be conducted for leaks. Spill kits will be kept onsite and all employees will be trained on proper spill prevention and cleanup practices. Employees will also be trained on proper maintenance, spill maintenance and procedures and cleanup procedures. When practical, all vehicles and equipment maintenance practices shall be performed offsite or within the Contractor's staging area, in a designated area.	Demolition, Grading, & Site Work
Industrial chemicals, fertilizers, and or pesticides	Hazardous chemicals will be well-labeled and stored in the original containers. An ample supply of cleanup materials will be kept onsite in case of spills. A complete set of material safety data sheets will be kept onsite. Materials will be stored under cover prior to rain events. All chemicals and fertilizers will be applied and disposed of in compliance with applicable regulations and manufacturer's instructions. Application of products will not occur during or just before rain events.	Landscaping

Source/Material	Description of measures to prevent potential pollutants from discharging with storm water runoff	Construction Activity
Metals	Construction wastes and recycling areas will be inspected regularly. Onsite materials will be stored under cover and away from discharge points.	Demolition
Concrete Materials	Construction of concrete structures will be limited to dry periods. All waste materials generated from the construction activities will be disposed of properly.	Concrete Support Construction, Demolition
Topsoil	Permanent ground cover will be applied as soon as practical after final grading. Ground cover will be established prior to removing temporary erosion control measures.	Grading

3.3 Potential Non-Storm Water Pollutant Sources

This section identifies the potential non-storm water pollution sources associated with the proposed construction activities including, but not limited to, the contents in **Table 2**. A description of measures to be implemented onsite during construction to prevent potential sources of non-storm water pollutants from discharging into State waters is provided below.

All solid waste shall be disposed of at DOH, Solid and Hazardous Waste Branch (SHWB), Solid Waste Section (SWS) permitted facilities. If solid waste cannot be disposed at these facilities, the SHWB-SWS at (808) 586-4226 will be contacted as additional permits may be required.

Table 2. Potential Sources of Non-Storm Water Pollutants

Source	Description of measures to prevent non-storm water pollution source from discharging into State waters	Construction Activity
Dust Control Water	The minimum amount of water necessary will be used for dust control. The rate of application will be monitored such that all water will be retained on-site and allowed to percolate into the ground/evaporate. The washing down of debris or dirt into drainage, sewer system or State Waters will not be allowed.	All
Construction Exit Wash Water	The minimum amount of water necessary will be used. The rate of application will be monitored such that all water will be retained on-site and allowed to percolate/evaporate. Stabilized entrance will also absorb wash water.	All

Source	Description of measures to prevent non-storm water pollution source from discharging into State waters	Construction Activity
Concrete Truck Wash Water	No construction vehicles will be washed onsite. As such, no discharge will result from construction concrete truck wash water.	Concrete Support Construction
Concrete Curing Water	The minimum amount of compound necessary will be used to cure the concrete. Water will percolate or evaporate and no discharge from concrete curing water will result at the project site.	Concrete Support Construction
Landscape Irrigation Water	The minimum amount of water necessary will be used for irrigation. The rate of application will be monitored such that all water will be retained on-site and allowed to percolate/evaporate.	Landscaping

SECTION 4: BEST MANAGEMENT PRACTICE LOCATION AND DETAILS

4.1 BMP Location Maps

Construction sequence diagrams showing the location of specific BMP (including stabilization BMP) that will be implemented during the proposed construction activities are provided in **Attachment A**, which includes:

- locations of where stabilization practices are expected to occur,
- post construction final stabilization BMP plan.

The staging/storage area will be located within the project limits. The area will be determined by the Contractor once the contract is awarded. The staging/storage area will be surrounded by compost filter socks. The location of the staging/storage area will be incorporated into the SWPPP after the contract is awarded.

All temporary erosion control measures will remain in place until the construction area is returned to its original condition or better, finish grades are constructed per contract drawings and vegetation is fully established.

The contractor may augment or improve BMPs for discharges of storm water associated with construction activity after the NPDES permit is issued. Amendments to the Site-Specific BMP Plan shall be identified and certified in **Attachment E**. These amendments do not have to be submitted to the DOH-CWB, but shall be kept on-site and available upon request.

4.2 BMP Details

Table 3 below provides installation details and product data of all proposed BMPs that will be used to mitigate the potential pollutants identified in **Table 1 Potential Sources of Storm Water Pollutants** and **Table 2 Potential Sources of Non-Storm Water Pollutants**. Attached are the details and product data sheets in **Attachment A**.

Table 3. BMP Details for Identified Pollutant Sources

Pollutant Source	Appropriate Site-Specific BMP to be Implemented	BMP Installation Detail in Attachment A
Construction debris, green waste; general litter	<p>All contaminated clean up materials will be separated from construction and demolition wastes. All Construction and recycling areas will be inspected regularly to prevent discharge of pollutants.</p> <p>All construction debris, green waste and general litter shall be removed and properly disposed of off-site on a weekly basis or sooner as necessary. Prior to off-site removal, debris shall be stored in covered dumpsters or areas with sediment and pollution control. Any items that could leach will be stored in covered dumpsters. Any items that could cause sediment will be confined with a compost filter sock.</p>	Attachment A-1 General Site, Grading and Erosion Control Plan
Sediment from soil stockpiles	Stockpiles will be placed a minimum of 50 feet from concentrated runoff and covered prior to rain events. Compost filter socks placed at the toes of the stockpiles will be used to mitigate runoff during rain events and control sediment.	Attachment A-1 General Site, Grading and Erosion Control Plan, Detail 2
Soil erosion from the disturbed areas	Work will be sequenced to minimize the area of disturbance as well as the exposure time of the cleared surface. Erosion and sediment control measures such as compost filter socks and stabilized gravel construction entrances will be implemented and maintained throughout the construction period. Existing ground depressions throughout the site will be used as sediment traps. Existing vegetation throughout the site will also be used as vegetative buffer strips. All disturbed areas will be restored to the original condition or better.	Attachment A-1 General Site, Grading and Erosion Control Plan, Detail 1
Materials associated with the operation and maintenance of equipment, such as oil, fuel, and hydraulic fluid leakage	Absorbent materials will be kept on site and used as required. All waste shall be properly disposed of. Construction equipment and vehicles will be properly maintained to mitigate leaks; weekly inspections of equipment will be conducted to look for leaks. Spill kits will be kept onsite and all employees will be trained on proper spill prevention and cleanup practices. Employees will also be trained on proper maintenance, spill maintenance and procedures and cleanup procedures. When practical, all vehicles and equipment maintenance practices shall be performed	N/A

Pollutant Source	Appropriate Site-Specific BMP to be Implemented	BMP Installation Detail in Attachment A
	offsite or within the Contractor's staging area, in a designated area.	
Industrial chemicals, fertilizers, and or pesticides	Hazardous chemicals will be well-labeled and stored in the original containers. An ample supply of cleanup materials will be kept onsite in case of spills. A complete set of material safety data sheets will be kept onsite. Materials will be stored under cover prior to rain events. All chemicals and fertilizers will be applied and disposed of in compliance with applicable regulations and manufacturer's instructions. Application of products will not occur during or just before rain events.	Attachment A-2 For Construction related activities, see CCH Storm Water BMP Guide dated Dec. 2012, page 17 (attached).
Metals	Construction wastes and recycling areas will be inspected regularly. Onsite materials will be stored under cover and away from discharge points.	Attachment A-2 CCH Storm Water BMP Guide dated Dec 2012, page 17
Topsoil	Permanent ground cover will be applied as soon as practical after final grading. Ground cover will be established prior to removing temporary erosion control measures.	Attachment A-1 General Site, Grading and Erosion Control Plan
Dust Control Water	The minimum amount of water necessary will be used for dust control. The rate of application will be monitored such that all water will be retained on-site and allowed to percolate into the ground/evaporate. The washing down of debris or dirt into drainage, sewer system or State Waters will not be allowed.	N/A
Construction Exit Wash Water	The minimum amount of water necessary will be used. The rate of application will be monitored such that all water will be retained on-site and allowed to percolate/evaporate. Stabilized entrance will absorb wash water.	Attachment A-1 General Site, Grading and Erosion Control Plan, Detail 1
Landscape Irrigation Water	The minimum amount of water necessary will be used for irrigation. The rate of application will be monitored such that all water will be retained on-site and allowed to percolate/evaporate.	N/A
Truck Wash Water	The minimum amount of water necessary will be used. The rate of application will be monitored such	Attachment A-1 General Site,

Pollutant Source	Appropriate Site-Specific BMP to be Implemented	BMP Installation Detail in Attachment A
	that all water will be retained on-site and allowed to percolate/evaporate. Stabilized entrance will absorb wash water.	Grading and Erosion Control Plan, Detail 1

SECTION 5: TRAINING AND RECORD KEEPING

A Storm Water Pollution Prevention Training Log will be maintained on-site and available upon request. The training of the on-site staff, general contractor, and sub-contractors is a required BMP and a part of this SWPPP. Storm water pollution prevention training shall be conducted per the Storm Water Pollution Prevention Training Log provided in **Attachment B**.

The Sub-Contractor Certification/Agreement in **Attachment C** will be completed prior to the start of construction activities and be maintained on-site. A copy of the agreement is available upon request.

SECTION 6: SITE INSPECTIONS, SCHEDULE AND PROCEDURES

An Inspection Report Form will be maintained on-site and available upon request. Site inspections ensure NPDES compliance and adequate implementation of the SWPPP. Site inspections are required components of the SWPPP. Site inspection details are as follows:

Personnel responsible for conducting inspections: To be determined by the Contractor

Qualifications: The designated representative shall be trained in all the inspection and maintenance practices necessary for keeping the erosion and sediment controls used onsite in good working condition.

Contact Number: _____

All construction BMPs shall be inspected weekly and within 24 hours of any rain event of 0.25 inches or greater in a 24 hour period and daily during periods of prolonged rainfall. Repairs shall be initiated within 7 calendar days after inspection. If repairs result in changes to the SWPPP, the SWPP will be modified within 7 calendar days of completing the repair.

The Contractor shall submit the name of a specific individual responsible for inspections, maintenance and repair activities and filling out the inspection and maintenance report. The Contractor shall submit a copy of the Site Specific BMP Inspection Report Form (see **Attachment D**) within 48 hours of the inspection. All inspection reports will be retained onsite for at least 5 years from permit expiration or termination.

Inspection procedures and maintenance requirements for each BMP are as follows:

BMP	Inspection Procedures and Maintenance Requirements
Temporary Crushed Rock Entrance/Exit	Temporary crushed rock entrance/exit shall be inspected visually. Maintenance and/or repair will occur immediately if the inspection indicates that the crushed rock has been damaged (clogged) or compromised.
Compost Filter Sock	Compost filter socks shall be inspected visually. Sediment will be removed before it has reached a third of the height of the compost filter sock. Damaged or compromised compost filter socks will be repaired or replaced immediately.
Sediment Trap	Sediment traps shall be inspected visually. Sediment will be removed when the sediment accumulation reaches one-third of the trap capacity.
Vegetated Buffer Strip	Buffer strips shall be inspected visually. Maintenance activities

BMP	Inspection Procedures and Maintenance Requirements
	include mowing, weeding, and verification of a properly operating irrigation system, if applicable.
Staging and Storage Areas	Staging and storage areas shall be inspected visually. Inspection shall include general housekeeping of the area to make sure items are in the correct location, secure, covered and contained as required.

SECTION 7: CONTINGENCY PLAN

A contingency plan is provided to ensure, that even under the worst case scenario, the construction activity will have a minimal adverse impact to State water(s).

The following plan will be implemented by the General Contractor to prevent/respond to polluted discharges resulting from a severe storm or natural disaster. It is the General Contractor's responsibility to abide by the following plan as well as any other binding plan, agreement, regulation, rule, law, or ordinance applicable.

All contractors associated with the following construction project, Malaekahana SRA – Kahuku Section Park Improvements, will follow this plan when a severe storm is either forecast or anticipated. The General Contractor must:

- a. Regularly monitor local weather reports for forecasted and/or anticipated severe storm events, advisories, watches, warnings or alerts. The Contractor shall inspect and document the condition of all erosion control measures on that day prior, during, and within 24 hours after the event. The Contractor shall prepare for forecasted and/or anticipated severe weather events to minimize the potential for polluted discharges.
- b. Secure the construction site. Securing the site should generally include:
 - i. Removing or securing equipment, machinery, construction materials, and portable toilets. If portable toilets are to remain on-site, they shall be pumped the day prior to the event.
 - ii. Cleaning up all construction debris.
 - iii. Stopping scheduled material deliveries.
 - iv. Locating and turning off jobsite utilities, including electricity, water, and gas.
 - v. Implementing all Best Management Practices detailed in the Site Specific BMP Plan. This includes BMPs for materials management, spill prevention, and erosion and sediment control. To protect human health, the Engineer will use their discretion as to whether to remove BMPs which may cause ponding on the roadway. These changes shall be noted in the SWPPP.
- c. In the event of a severe weather advisory (hurricanes, tropical storms, natural disasters) or when deemed necessary, cease regular construction operations. Work crews must finalize securing the project site, and evacuate until the severe weather condition has passed.

- d. Upon return to the site, all BMPs shall be inspected, repaired and/or re-installed as needed. If repair is necessary, it shall be initiated within 24 hours of the inspection and repairs or replacement will be complete within 48 hours. To facilitate repair or replacement, the contractor will be required to store surplus material on the project site if the site is located where replacement materials will not be readily available.
- e. When there either has been a discharge which violates Hawaii Water Pollution rules and regulations OR there is an imminent threat of a discharge which violates Hawaii Water Pollution rules and regulations and/or endangers human and/or environmental health, the permittee shall at a minimum execute the following steps:
- i. Assess whether construction needs to stop or if additional BMPs are needed to stop or prevent a violation.
 - ii. Take all reasonable measures to protect human and environmental health.
 - iii. Notify responsible parties listed below and immediately notify the DOH of the incident. The notification shall also include the identity of the pollutant sources and the implemented control or mitigation measures.
 1. Owner Contact/Emergency Contact Number:
Curt Cottrell Office: (808) 587-0062
 2. Authorized Representative/ Emergency Contact Number:
John Datiles Office: (808) 587-0279
 3. Operator/ Emergency Contact Number:
Dickey Lee Office: (808)-587-0280
 4. Owner's Representative/ Emergency Contact Number:
The Limtiaco Consulting Group
Jason Lau Office: (808) 596-7790
Cellular: (808) 349-5392
 5. Department of Health
Clean Water Branch (During regular working hours): 808-586-4309
Hawaii State Hospital Operator (After hours): 808-247-2191
 - iv. Document corrective actions, take photographs of discharge and receiving waters.
 - v. Revise Site Specific BMP Plan to prevent future discharges of a similar nature.



STORM WATER BMP GUIDE FOR NEW AND REDEVELOPMENT

for the City and County of Honolulu
Permit No. HI S000002

July 2017

Prepared by
City and County of Honolulu,
Department of Planning and Permitting



SC-11: Outdoor Material Storage



Design Objectives	
	Maximum Infiltration
	Provide On-Site Retention
	Slow Runoff
	Minimize Impervious Land Coverage
	Implement LID
	Prohibit Dumping of Improper Materials
✓	Contain Pollutants
✓	Collect and Convey

Description

Proper design of outdoor storage areas for materials reduces opportunity for pollutants to enter the storm water conveyance system. Materials may be in the form of raw products, by-products, finished products, and waste products.

Approach

Outdoor storage areas require a drainage approach different from the typical infiltration/detention strategy. In outdoor storage areas, infiltration is discouraged and containment is encouraged. Preventative measures include enclosures, secondary containment structures and impervious surfaces.

Suitable Applications

Appropriate applications include residential, commercial and industrial areas planned for development or redevelopment.

Design Considerations

Some materials are more of a concern than others. Toxic and hazardous materials must be prevented from coming in contact with storm water. Non-toxic or non-hazardous materials do not have to be prevented from storm water contact. However, these materials may have toxic effects on receiving waters if allowed to be discharged with storm water in significant quantities. Accumulated material on an impervious surface could result in significant impact on the rivers or streams that receive the runoff.

Material may be stored in a variety of ways, including bulk piles, containers, shelving, stacking, and tanks. Storm water contamination may be prevented by eliminating the possibility of storm water contact with the material storage areas either through diversion, cover, or capture of the storm water. Control measures may also include minimizing the storage area. Design requirements for material storage areas are governed by Building and Fire Codes, and by current City ordinances and zoning requirements. Control measures are site specific, and must meet local agency requirements.

Design Guidelines

Design requirements for material storage areas are governed by Building and Fire Codes, and by current City ordinances and zoning requirements. Control measures are site specific, and must meet local agency requirements.

- Materials with the potential to contaminate storm water must either be placed in an enclosure that prevents contact with runoff or spillage to the storm water conveyance system, or protected by secondary containment structures such as berms, dikes, or curbs.
- Pave the storage area with Portland cement concrete (or equivalent smooth impervious surface) to contain leaks and spills.
- Slope the storage area towards a dead-end sump to contain spills.
- Direct runoff from downspouts/roofs away from storage areas.
- Cover the storage area with an awning that extends beyond the storage area to minimize collection of storm water within the secondary containment area. A manufactured storage shed may be used for small containers.

Designing New Installations

Where proposed project plans include outdoor areas for storage of materials that may contribute pollutants to the storm water conveyance system, the following structural or treatment BMPs should be considered:

- Materials with the potential to contaminate storm water should be:
 - Placed in an enclosure such as, but not limited to, a cabinet, shed, or similar structure that prevents contact with runoff or spillage to the storm water conveyance system, or
 - Protected by secondary containment structures such as berms, dikes, or curbs.
- The storage area should be paved and sufficiently impervious to contain leaks and spills.
- The storage area should slope towards a dead-end sump to contain spills and direct runoff from downspouts/roofs should be directed away from storage areas.
- The storage area should have a roof or awning that extends beyond the storage area to minimize collection of storm water within the secondary containment area. A manufactured storage shed may be used for small containers.

Note that the location(s) of installations of where these preventative measures will be employed must be included on the map or plans identifying BMPs.

Redeveloping Existing Installations

The City's SWMPP defines "redevelopment" as development that would create or add impervious surface area on an already developed site. The definition of "redevelopment" must be consulted to determine whether or not the requirements for new development apply to areas intended for redevelopment. If the definition applies, the steps outlined under "designing new installations" above should be followed.

Supplemental Information

Storm water and non-storm water will accumulate in containment areas and sumps with impervious surfaces. Contaminated accumulated water must be disposed of in accordance with applicable laws and cannot be discharged directly to the storm drain or sanitary sewer system without the appropriate permits.

O&M Recommendations

- Protect materials from rainfall, run-on, runoff, and wind dispersal.
- Employ safeguards against accidental releases.
- Inspect storage areas regularly for leaks or spills.
- Keep storage areas clean and dry.
- Keep containers in good condition without corrosion or leaky seams.
- Cover and contain stockpiles of raw materials to prevent storm water run-on. If infeasible, implement erosion control practices around site perimeter and catch basins.
- Develop and implement a Spill Prevention Control and Countermeasure (SPCC) Plan.

References

California Stormwater Quality Association (CASQA) Best Management Practices Handbook New Development and Redevelopment, 2003.

A Manual for the Standard Urban Stormwater Mitigation Plan (SUSMP), Los Angeles County Department of Public Works, May 2002.

Model Standard Urban Storm Water Mitigation Plan (SUSMP) for San Diego County, Port of San Diego, and Cities in San Diego County, February 14, 2002.

Model Water Quality Management Plan (WQMP) for County of Orange, Orange County Flood Control District, and the Incorporated Cities of Orange County, Draft February 2003.

Ventura Countywide Technical Guidance Manual for Stormwater Quality Control Measures, July 2002.

Attachment B - Site Specific BMP Plan Training Log

Project Name: Malaekahana SRA – Kahuku Section Park Improvements
Project Location: 56-335 Kamehameha Highway, Kahuku, Hawaii 96731
Instructor's Name(s):
Instructor's Title(s):

Course Location: _____ Date: _____

Course Length (hours): _____

Storm Water Training Topic: (check as appropriate)

- | | |
|---|--|
| <input type="checkbox"/> Erosion Control BMP | <input type="checkbox"/> Emergency Procedures |
| <input type="checkbox"/> Sediment Control BMP | <input type="checkbox"/> Good Housekeeping BMP |
| <input type="checkbox"/> Non-Storm Water BMP | |

Specific Training Objective: _____

Attendee Roster:

No.	Name of Attendee	Company
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

Attachment C –Subcontractor Certification

Permit No: _____

Project Title: Malaekahana SRA – Kahuku Section Park Improvements

Operator(s): _____

As a subcontractor, you are required to comply with the Storm Water Pollution Prevention Plan (SWPPP) for any work that you perform on-site. Any person or group who violates any condition of the SWPPP may be subject to substantial penalties or loss of contract. You are encouraged to advise each of your employees working on this project of the requirements of the SWPPP. A copy of the SWPPP is available for your review at the office trailer.

Each subcontractor engaged in activities at the construction site that could impact storm water must be identified and sign the following certification statement:

I certify under the penalty of law that I have read and understand the terms and conditions of the SWPPP for the above designated project and agree to follow the BMP and practices described in the SWPPP.

This certification is hereby signed in reference to the above named project:

Company: _____

Address: _____

Telephone Number: _____

Type of construction service to be provided: _____

Signature: _____

Title: _____

Date: _____

Attachment D–Site Specific BMP Inspection Report Form

Date: _____ Project/Site: Malaekahana SRA – Kahuku Section Park Improvements Permit No.: _____

Inspector’s Name: _____ Weather: _____

Site Specific Best Management Practices (BMP) Plan	Yes	No	N/A	Date Corrected	Notes
Is a copy of the Site Specific BMP Plan available at the site?					
Is the Site Specific BMP Plan certified, signed, and dated?					
Is the Site Specific BMP Plan current and up-to-date?					
Are accompanying erosion and sediment control (ESC) drawings available at the site?					
Are the ESC drawings up-to-date?					
Are all NPDES permits available at the site?					
Are inspection records available at the site?					

Attachment D–Site Specific BMP Inspection Report Form

Date: _____ Project/Site: Malaekahana SRA – Kahuku Section Park Improvements Permit No.: _____

Inspector’s Name: _____ Weather: _____

Site Conditions	Yes	No	N/A	Notes and Corrective Actions
Are off-site flows entering the construction site?				
Is there evidence of polluted discharges off the site?				
Is there evidence of polluted discharges from the site to a State water (e.g. storm drain, ditch, stream, ocean)?				
Is repair, maintenance, or installation of sediment control BMP needed at the site?				
Is repair, maintenance, or installation of erosion control BMP needed at the site?				
Are construction materials/debris/trash/soil stored or disposed of properly at the site?				
Is there vehicle tracking from the site to receiving streets?				
Do locations exist where additional or revised BMP are needed?				
Do locations exist where BMP may no longer be necessary and may be removed?				
Does your site evaluation indicate a need to update or revise the current Site Specific BMP plan and/or accompanying erosion and sediment control drawings?				

Attachment D–Site Specific BMP Inspection Report Form

Date: _____ Project/Site: Malaekahana SRA – Kahuku Section Park Improvements Permit No.: _____

Inspector's Name: _____ Weather: _____

Photos taken during the BMP inspection documented above are:

- Attached Inserted Not taken, attached, nor inserted.

I certify that I am the person who performed the inspection documented above and that all information recorded on this form is a true and accurate representation of what was observed at the construction site recorded above. Any photographs attached that were taken during the inspection are a true, accurate, and unaltered representation of what was observed during the inspection documented above.

Inspector's Printed Name: _____

Inspector's Signature: _____ Date: _____

