



State of Hawaii  
Department of Health  
Clean Water Branch

**Do NOT submit  
this document.**

**General Guidelines for NOI Forms B through L and  
CWB NOI General Form (CWBNOI\_General.pdf)**

**General Guidelines for Notice of Intent for  
Hawaii Administrative Rules, Chapter 11-55, Appendices B through L  
National Pollutant Discharge Elimination System (NPDES)  
Notice of General Permit Coverage (NGPC)**

**For coverage under a specific NPDES General Permit, the following items are required to be submitted to the Clean Water Branch (CWB):**

- A. **CWB NOI General Form** (CWBNOI\_General.pdf) with Certifying Person's original signature [via "Submit via Email" button and hard copy]
- B. **General Permit Specific CWB NOI Form B, C, D, E, F, G, H, I, K, or L** (CWBNOI\_B.pdf through CWBNOI\_L.doc) [via "Submit via Email" button, as applicable, and hard copy]
- C. **All applicable attachments** [via hard copy]
- D. **\$500 Filing Fee** [Check made payable to "State of Hawaii"]
- E. ~~Additional copies as required for Islands other than Oahu~~ [see Notes V.D. and V.E. of the General Guidelines]

subject to change

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## General Information Applicable to All NOI Forms

### I. Introduction to the NPDES General Permit

- A. The State of Hawaii, Department of Health (DOH), is delegated by the U.S. Environmental Protection Agency (EPA) to administer the National Pollutant Discharge Elimination System (NPDES) Permit program in Hawaii. The NPDES permit program is described in and administered through the Hawaii Administrative Rules (HAR), Chapter 11-55, entitled "Water Pollution Control."
- B. Appendices B through L of HAR, Chapter 11-55 are the specific NPDES General Permits authorizing various types of discharges to State waters. Appendix A of HAR, Chapter 11-55 lists the Standard Conditions for the NPDES General Permits. HAR, Chapter 11-55 and its appendices may be downloaded from <http://www.hawaii.gov/health/about/rules/admrules.html>.
- C. The Notice of Intent (NOI), according to HAR, Section 11-55-01, is "a form used to notify the director, within a specified time, that a person seeks coverage under a general permit." The following table indicates the NOI Forms to be submitted for each type of NPDES General Permit coverage.

HAR, Chapter 11-55	Types of Discharges Authorized by an NPDES General Permit	CWB NOI Forms (Filenames)
Appendix B	Storm Water Associated with Industrial Activities	CWB NOI General Form and CWB NOI Form B (CWBNOI_General.pdf and CWBNOI_B.pdf)
Appendix C	Storm Water Associated with Construction Activity	CWB NOI General Form and <b>CWB NOI Form C</b> (CWBNOI_General.pdf and CWBNOI_C.pdf)
Appendix D	Treated Effluent from Leaking Underground Storage Tank Remedial Activities	CWB NOI General Form and CWB NOI Form D (CWBNOI_General.pdf and CWBNOI_D.*)
Appendix E	Once Through Cooling Water Less Than One (1) Million Gallons Per Day	CWB NOI General Form and CWB NOI Form E (CWBNOI_General.pdf and CWBNOI_E.*)
Appendix F	Hydrotesting Waters	CWB NOI General Form and CWB NOI Form F (CWBNOI_General.pdf and CWBNOI_F.*)
Appendix G	Construction Activity Dewatering Effluent	CWB NOI General Form and CWB NOI Form G (CWBNOI_General.pdf and CWBNOI_G.*)
Appendix H	Treated Process Wastewater from Petroleum Bulk Stations and Terminals	CWB NOI General Form and CWB NOI Form H (CWBNOI_General.pdf and CWBNOI_H.*)
Appendix I	Treated Process Wastewater from Well Drilling Activities	CWB NOI General Form and CWB NOI Form I (CWBNOI_General.pdf and CWBNOI_I.*)

Replace with EPA SWPPP Template at: [http://www.epa.gov/npdes/pubs/sw\\_swppp\\_template\\_authstates.doc](http://www.epa.gov/npdes/pubs/sw_swppp_template_authstates.doc)

HAR, Chapter 11-55	Types of Discharges Authorized by an NPDES General Permit	CWB NOI Forms (Filenames)
Appendix J	Occasional or Unintentional Discharges from Recycled Water Systems	WWB-NOI Form J (wwb-noij.*)
Appendix K	Discharges of Storm Water and Certain Non-Storm Water Discharges from Small Municipal Separate Storm Sewer Systems	CWB NOI General Form and CWB NOI Form K (CWBNOI_General.pdf and CWBNOI_K.*)
Appendix L	Circulation Water from Decorative Ponds or Tanks	CWB NOI General Form and CWB NOI Form L (CWBNOI_General.pdf and CWBNOI_L.*)

\* = The file extensions are "pdf" for Adobe Acrobat documents and/or "doc" for MSWord documents.

- D. The Notice of General Permit Coverage (NGPC) is defined in HAR, Section 11-55-01 as "an authorization issued to the owner or operator by the department to comply with the NPDES general permit."

## II. Class of Receiving State Waters Not Covered by NPDES General Permits

NPDES General Permits cover all areas of the State except for discharges in or to State waters classified by the DOH as "Class 1, Inland Waters," "Class AA, Marine Waters," and areas restricted in accordance with the State's "No Discharge" policy in HAR, Chapter 11-54, entitled "Water Quality Standards."

## III. Discharge Activities Covered by an NPDES General Permit

The requirements for each NPDES General Permit are listed in the Appendices of HAR, Chapter 11-55. The following excerpts from the appendices are descriptions of applicable discharge activities covered by the NPDES General Permits.

### A. HAR, Chapter 11-55, Appendix B

This NPDES General Permit covers discharges composed entirely of storm water runoff associated with an industrial activity(ies), as categorized in 40 CFR §122.26(b)(14)(i) through 122.26(b)(14)(ix) and 122.26(b)(14)(xi). The following facilities are regulated under this NPDES General Permit.

<u>Subpart</u>	<u>Description</u>
----------------	--------------------

- |     |  |
|-----|--|
| (i) | Facilities subject to storm water effluent limitations guidelines, new source performance standards, or toxic pollutants effluent standards under 40 CFR, Subchapter N [except facilities with toxic pollutant effluent standards which are exempt under category (xi) in 40 CFR 122.26(b)(14)]. |
|-----|--|

- |      |                           |
|------|---------------------------|
| (ii) | Facilities classified as: |
|------|---------------------------|

SIC 24 (except 2434) .....	Lumber and Wood Products
SIC 26 (except 265 & 267) .....	Paper and Allied Products
SIC 28 (except 283 & 285) .....	Chemicals and Allied Products
SIC 29 .....	Petroleum and Coal Products
SIC 311 .....	Leather Tanning and Finishing
SIC 32 (except 323) .....	Stone, Clay, and Glass Products
SIC 33 .....	Primary Metal Industries
SIC 3441 .....	Fabricated Structural Metal

SIC 373 ..... Ship and Boat Building and Repairing

- (iii) Facilities including active or inactive mining operations; oil and gas exploration; production, processing, or treatment operations; or transmission facilities that discharge storm water contaminated by contact with or that has come into contact with any overburden, raw material, intermediate products, finished products, byproducts or waste products located on the site of such operations. Inactive mining operations are mining sites that are not being actively mined, but which have an identifiable owner or operator; inactive mining sites do not include sites where mining claims are being maintained prior to disturbances associated with the extraction, beneficiation, or processing of mined materials, nor sites where minimal activities are undertaken for the sole purpose of maintaining a mining claim.

SIC 10 ..... Metal Mining  
SIC 11 ..... Anthracite Mining  
SIC 12 ..... Coal Mining  
SIC 13 ..... Oil and Gas Extraction  
SIC 14 ..... Nonmetallic Minerals, except Fuels

- (iv) Hazardous waste treatment, storage, or disposal facilities, including those that are operating under interim status or a permit under Subtitle C of the Resource Conservation and Recovery Act (RCRA).
- (v) Landfills, land application sites, and open dumps that receive or have received any industrial wastes (waste that is received from any of the facilities described under this subsection) including those that are subject to regulation under Subtitle D of the Resource Conservation and Recovery Act (RCRA).
- (vi) Facilities involved in the recycling of material, including metal scrapyards, battery reclaimers, salvage yards, and automobile junkyards, including, but limited to those classified as:

SIC 5015 ..... Motor Vehicle Parts, Used  
SIC 5093 ..... Scrap and Waste Materials

- (vii) Steam electric power generating facilities, including coal handling sites.
- (viii) Transportation facilities which have vehicle maintenance shops, equipment cleaning operations, or airport de-icing operations. Only those portions of the facility that are either involved in vehicle maintenance (including vehicle rehabilitation, mechanical repairs, painting, fueling, and lubrication), equipment cleaning operations, or airport de-icing operations, or which are otherwise identified under 40 CFR §122.26(b)(14)(i)-(vii) or (ix)-(xi) are associated with industrial activity.

SIC 40 ..... Railroad Transportation  
SIC 41 ..... Local and Suburban Transit  
SIC 42 (except 4221-25) ..... Motor Freight and Warehousing  
SIC 43 ..... U.S. Postal Service  
SIC 44 ..... Water Transportation  
SIC 45 ..... Transportation by Air  
SIC 5171 ..... Petroleum Bulk Stations and Terminals

- (ix) Treatment works treating domestic sewage or any other sewage sludge or wastewater treatment device or system, used in the storage, treatment, recycling, and reclamation of municipal or domestic sewage, including land dedicated to the disposal of sewage sludge that are located within the confines of the facility, with a design flow of 1.0 mgd or more, or required to have an approved pretreatment program under 40 CFR Part 403. Not included are farm lands, domestic gardens, or lands used for sludge management where sludge is beneficially reused and which are not physically located in the confines of the facility, or areas that are in compliance with Section 405 of the CWA.

(xi) Facilities which are not otherwise included in 40 CFR §122.26(b)(14)(ii)-(x).

SIC 20 .....	Food and Kindred Products
SIC 21 .....	Tobacco Products
SIC 22 .....	Textile Mill Products
SIC 23 .....	Apparel and Other Textile Products
SIC 2434 .....	Wood Kitchen Cabinets
SIC 25 .....	Furniture and Fixtures
SIC 265 .....	Paperboard Containers and Boxes
SIC 267 .....	Converted Paper and Paper Board Products (except containers and boxes)
SIC 27 .....	Printing and Publishing
SIC 283 .....	Drugs
SIC 285 .....	Paints, Varnishes, Lacquer, Enamels
SIC 30 .....	Rubber and Miscellaneous Plastic Products
SIC 31 (except 311) .....	Leather and Leather Products
SIC 323 .....	Products of Purchased Glass
SIC 34 (except 3441) .....	Fabricated Metal Products
SIC 35 .....	Industrial Machinery and Equipment, except Electrical
SIC 36 .....	Electronic and Other Electric Equipment
SIC 37 (except 373) .....	Transportation Equipment
SIC 38 .....	Instruments and Related Products
SIC 39 .....	Miscellaneous Manufacturing Industries
SIC 4221 .....	Farm Products Warehousing and Storage
SIC 4222 .....	Refrigerated Warehousing and Storage
SIC 4225 .....	General Warehousing and Storage

B. HAR, Chapter 11-55, Appendix C

This NPDES General Permit shall cover discharges composed entirely of storm water runoff associated with construction activities, including clearing, grading, and excavation that result in the disturbance of one (1) acre or more of total land area. This general permit also covers activities that disturb less than one (1) acre of total land area that are part of a larger common plan of development or sale if the larger common plan will ultimately disturb one (1) acre or more of total land area (40 CFR §122.26(b)(15)).

1. A "larger common plan of development or sale" is a contiguous area where multiple separate and distinct construction activities may be taking place at different times on different schedules under one plan. The following are examples of activities which are and are not considered to be a "common plan of development or sale:"
  - a. A 20-acre lot which a developer plans to build the infrastructure and intends to construct homes or other structures sometime in the near future would be considered to be a "common plan of development or sale" if the homes or other structures are included on the developer's original site plan.
  - b. A 20-acre lot which a developer plans to build the infrastructure and sell the parcels (which are less than one (1) acre) to separate, independent builders would be considered to be a "part of a larger common plan of development" if the homes or other structures are included on the developer's original site plan. The separate, independent builders would be required to obtain NPDES General Permit coverage.
  - c. A 20-acre lot which a developer plans to build the infrastructure and sell the parcels (which are less than one (1) acre) to separate, independent builders would not be considered to be a "part of a larger common plan of development" if the homes or other structures are not included on the developer's original site plan. The separate, independent builders would not be required to obtain NPDES General Permit coverage.

2. My Project Will Disturb Less Than One Acre, but It May Be Part of a "Larger Common Plan of Development or Sale." How Can I tell and What Must I Do?

If your smaller project is part of a larger common plan of development or sale that collectively will disturb one (1) or more acres (e.g., you are building on three (3) half-acre residential lots in a 10-acre development or are putting in a parking lot in a large retail center) you need permit coverage. The "plan" in a common plan of development or sale is broadly defined as any announcement or piece of documentation (including a sign, public notice or hearing, sales pitch, advertisement, drawing, permit application, zoning request, computer design, etc.) or physical demarcation (including boundary signs, lot stakes, surveyor markings, etc.) indicating construction activities may occur on a specific plot. You must still meet the definition of operator in order to be required to get permit coverage, regardless of the acreage you personally disturb. As a subcontractor, it is unlikely you would need a permit (63 FR 7859-7860).

3. When Can You Consider Future Construction on a Property To Be Part of a Separate Plan of Development or Sale?

In many cases, a common plan of development or sale consists of many small construction projects that collectively add up to one (1) or more acres of total disturbed land. For example, an original common plan of development for a residential subdivision might lay out the streets, house lots, and areas for parks, schools and commercial development that the developer plans to build or sell to others for development. All these areas would remain part of the common plan of development or sale until the intended construction occurs. After this initial plan is completed for a particular parcel, any subsequent development or redevelopment of that parcel would be regarded as a new plan of development, and would then be subject to the one-acre cutoff for storm water permitting purposes (63 FR 7860).

- C. HAR, Chapter 11-55, Appendix D

This NPDES General Permit covers discharges of treated effluent from facilities where petroleum hydrocarbons have been released from underground storage tanks and the cleanup or remedial action involves a release or discharge to State waters.

- D. HAR, Chapter 11-55, Appendix E

This NPDES General Permit covers discharges of once through cooling water of a total flow of less than one (1) million gallons per day (mgd) to State waters. "Once through cooling water" means water passed through the main cooling condensers one or two times for the purpose of removing waste heat.

- E. HAR, Chapter 11-55, Appendix F

This NPDES General Permit covers discharges of hydrotesting waters from facilities or activities to State waters. "Hydrotesting Waters" means water used to test the integrity of a tank or pipeline.

- F. HAR, Chapter 11-55, Appendix G

This NPDES General Permit covers discharges from the dewatering process of construction activities of any size.

- G. HAR, Chapter 11-55, Appendix H

This NPDES General Permit covers discharges of treated process wastewater effluent from petroleum bulk stations and terminals. Treated process wastewater effluent covered by this NPDES General Permit includes tank water draws; product displacement process wastewater; wash down and fire hydrant system test waters; service station tank draws;

recovered groundwater; and contaminated storm water runoff from the product storage and handling areas.

H. HAR, Chapter 11-55, Appendix I

This NPDES General Permit covers discharges of treated process wastewater effluent associated with well drilling activities. Treated process wastewater covered by this NPDES General Permit includes well drilling slurries, lubricating fluids wastewaters, and well purge wastewaters.

I. HAR, Chapter 11-55, Appendix J

This NPDES General Permit covers discharges composed entirely of R-1 water or R-1 water with any combination of stormwater or potable water or water used primarily for irrigation where the R-1 water is supplied from a treatment works and is conveyed or used by a recycled water system.

J. HAR, Chapter 11-55, Appendix K

This NPDES General Permit covers storm water and certain non-storm water discharges, provided they do not cause or contribute to any violation of Water Quality Standards, to State waters from small municipal separate storm sewer systems.

Non-storm water discharges authorized by this general permit, provided that they do not cause or contribute to any violation of water quality standards, include:

- (1) Water line flushing;
- (2) Landscape irrigation;
- (3) Diverted stream flows;
- (4) Rising ground waters;
- (5) Uncontaminated ground water infiltration (as defined in 40 CFR §35.2005(20));
- (6) Uncontaminated pumped ground water;
- (7) Discharges from potable water sources and foundation drains;
- (8) Air conditioning condensate;
- (9) Irrigation water;
- (10) Springs;
- (11) Water from crawl space pumps and footing drains;
- (12) Lawn watering runoff;
- (13) Water from individual residential car washing;
- (14) Flows from riparian habitats and wetlands;
- (15) Dechlorinated swimming pool discharges;
- (16) Residual street wash water; and
- (17) Discharges or flows from fire fighting activities.

K. HAR, Chapter 11-55, Appendix L

This NPDES General Permit covers discharges of circulation water from decorative ponds or tanks containing fish or other aquatic species, not including mammals. This general permit also covers discharges of circulation water from decorative ponds or tanks that do not contain fish or other aquatic species provided that the discharge complies with HAR, Chapter 11-54, titled "Water Quality Standards."

IV. Availability of NOI Forms

The NOI Forms are MSWord and Adobe Acrobat documents. Hard copies and electronic files are available. The NOI Forms and Guidelines may be downloaded from the CWB website at <http://www.hawaii.gov/health/environmental/water/cleanwater/forms/index.html>. See Section V.A.1. and V.A.2. of these guidelines for the CWB and WWB mailing and street addresses.



V. Inquiries and Submittals

- A. CWB NOI Form questions should be directed to the Engineering Section of the CWB at (808) 586-4309 or fax number (808) 586-4352 and submissions should be directed to the street ~~or mailing~~ address listed below:

1. Street Address  
Clean Water Branch  
State Department of Health  
919 Ala Moana Boulevard, Room 301  
Honolulu, Hawaii 96814-4920

~~2. Mailing Address  
Clean Water Branch  
State Department of Health  
P.O. Box 3378  
Honolulu, Hawaii 96801-3378~~

- B. WWB-NOI Form J questions should be directed to the WWB at (808) 586-4294 or fax number (808) 586-4300 and submissions should be directed to the street ~~or mailing~~ address listed below:

1. Street Address  
Wastewater Branch  
State Department of Health  
919 Ala Moana Boulevard, Room 309  
Honolulu, HI 96814-4920

~~2. Mailing Address  
Wastewater Branch  
State Department of Health  
P.O. Box 3378  
Honolulu, Hawaii 96801-3378~~

All Islands

Mail or deliver original signed certification in Item No. 7 on page 4 of CWB NOI General Form, \$500 Filing Fee, and CD/DVD with xml file and all other supporting information for NOI in pdf format.

- C. For facilities/projects on ~~the island of Oahu~~, submit one (1) copy of the CWB NOI General Form, applicable discharge form (e.g., CWB NOI Form C), and supporting documents with the certifying person's original signature and \$500 Filing Fee.
- D. ~~For facilities/projects on the island of Hawaii, submit three (3) copies of the CWB NOI General Form, applicable discharge form (e.g., CWB NOI Form C), and supporting documents. One copy of the CWB NOI General Form shall include the certifying person's original signature and \$500 Filing Fee.~~
- E. ~~For facilities/projects located on islands other than Oahu and Hawaii, submit two (2) copies of the CWB NOI General Form, applicable discharge form (e.g., CWB NOI Form C), and supporting documents. One copy of the CWB NOI General Form shall include the certifying person's original signature and \$500 Filing Fee.~~
- F. The submittal date is the date the CWB or WWB receives the NOI Form(s). The 30 day period includes weekends and holidays (aka 30 calendar days).
1. For CWB NOI Form C: Any new construction activity which results in the disturbance of greater or equal to one (1) acre shall submit an NOI at least 30 calendar days before the construction activity begins.
2. For all other NOI Forms: The complete NOI Form(s) shall be submitted no later than 30 calendar days before the proposed starting date of any discharge activities or before the potential discharge of pollutants to State waters.
- G. Retain a copy of the NOI Form and supporting documents for the owner's or operator's or duly authorized representative's records.

## VI. Filing Fee

- A. Every owner or operator, including federal, state, and county government agencies, seeking coverage under an NPDES General Permit shall pay a filing fee of \$500 for each NOI Form submitted to the CWB or WWB.
- B. The filing fee shall be submitted with the applicable NOI Form and shall be made payable to the "State of Hawaii" in the form of a cashier's check or money order or pre-printed check.
- C. The filing fee shall not be refunded nor applied to any subsequent NPDES individual permit application following final action denying coverage under the NPDES General Permit provisions.

## VII. Completeness of the NOI Form

- A. The NOI Form will not be considered complete unless every item is appropriately addressed. If an item does not apply, enter "N/A," for "not applicable," to show that the item was considered.
- B. An incomplete NOI Form will delay the issuance of the NGPC and also disqualify the owner or operator from obtaining automatic coverage.

## VIII. Supporting Documents (Attachments to NOI)

If reference is made in the NOI to attached supporting documents, the referencing statement should be written as follows, "Refer to Attachment No. \_\_, entitled "\_\_\_\_," dated \_\_, on page \_\_, and paragraph \_\_," with the blanks filled in as applicable. In addition, a separate list of all attached supporting documents shall be submitted with the NOI.

## IX. Notification

### A. Acknowledgment of NOI Form

The Director will notify the owner or operator or its duly authorized representative of receipt of the NOI Form within 30 calendar days of receipt. The director may waive this 30 calendar day requirement by notifying the owner or operator in writing of an NGPC before the 30 calendar days expire.

### B. Automatic Coverage

- 1. The owner or operator may be authorized to discharge under an NPDES General Permit with risks on the 30<sup>th</sup> calendar day after the DOH receives the complete NOI Form, including supporting documents, all site-specific plans, operator and/or general contractor information, necessary permits, and the applicable filing fee.
  - 2. The owner or operator may not begin to discharge to State waters if, before the 30<sup>th</sup> calendar day, the Director notifies the owner or its duly authorized representative that the NOI Form was incomplete. The 30 calendar day period shall start over upon receipt of the revised NOI Form.
  - 3. The Director may issue an NGPC to the owner or operator after automatic coverage applies under HAR, Section 11-55-34.09(e)(2). The Director may impose conditions in an NGPC or add conditions to an issued NGPC to ensure that the activity or discharge(s) complies with the terms and conditions of the NPDES General Permit and to ensure that State Water Quality Standards will not be violated.
  - 4. Automatic coverage may not be selected for renewal of an NGPC.
- C. An NGPC may limit coverage under the NPDES General Permit to a term of less than five (5) years.

- D. See the "NPDES General Permit Coverage Processing Flowchart" dated June 17, 1997 on the next page.

X. Abbreviations and Acronyms

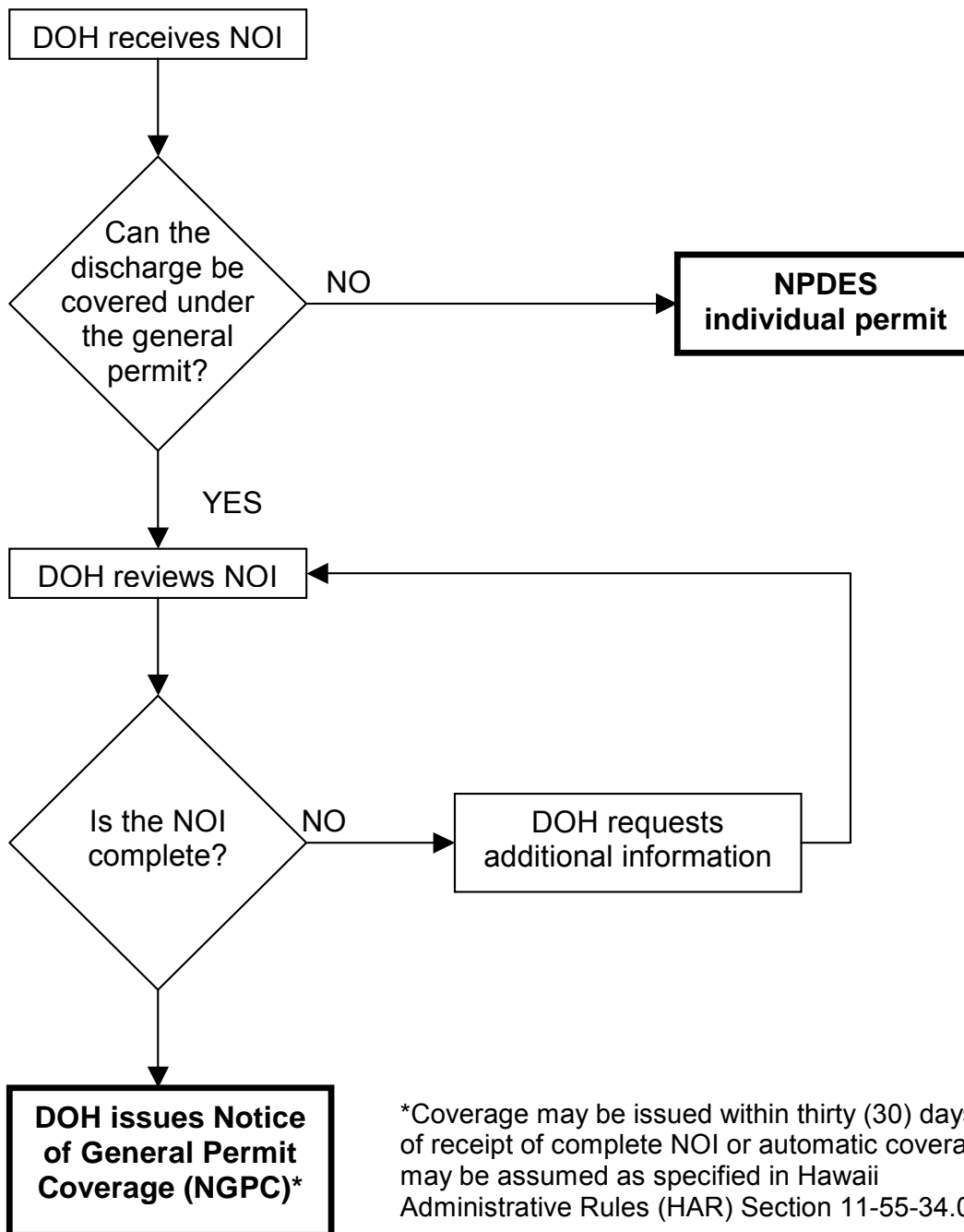
A. Documents

BMPs	-	Best Management Practices
CFR	-	Code of Federal Regulations
CWA	-	Clean Water Act
CWB	-	Clean Water Branch of the Department of Health, State of Hawaii
DA	-	Department of the Army (U.S. Army Corps of Engineers issues a DA Permit under Section 404 of the CWA)
DOH	-	State of Hawaii Department of Health
FR	-	Federal Regulations
HAR	-	Hawaii Administrative Rules
HRS	-	Hawaii Revised Statutes
NAICS	-	North American Industrial Classification System
NGPC	-	Notice of General Permit Coverage
NOI	-	Notice of Intent
NOC	-	Notice of Cessation
NPDES	-	National Pollutant Discharge Elimination System
RCRA	-	Resource Conservation and Recovery Act
SARA	-	Superfund Amendment and Reauthorization Act
SIC	-	Standard Industrial Classification
SWPCP	-	Storm Water Pollution Control Plan
WQC	-	Water Quality Certification (issued by the Clean Water Branch - Section 401 of the CWA)
WWB	-	Wastewater Branch

B. Units

cfs	-	cubic feet per second
mgd	-	million gallons per day
mg/l	-	milligrams per liter = 1000 micrograms per liter
µg/l	-	micrograms per liter
NTU	-	Nephelometric Turbidity Units
SF	-	square foot or square feet

## NPDES General Permit Coverage Processing Flowchart



06-17-97

## General Guidelines for CWB NOI General Form (CWBNOI\_General.pdf)

- A. General Instructions - This is a fillable Adobe Acrobat form. Please:
1. SAVE the blank form file in Adobe Acrobat Reader 8.0 or newer. If the form is completed while open in the web browser, it will NOT be saved and data will be lost.
  2. Insert the required information
  3. Save the completed form
  4. **Submit via the "Submit by Email" button.** Please insert the NGPC File No. or New Project Name in the subject line (remove the text within the parentheses). subject to change
  5. Print with "Print Form" button
  6. Sign
  7. Submit with the applicable discharge specific CWB NOI Form, attachments, and \$500 Filing Fee. Please see Section V - Inquiries and Submittals and Section VI - Filing Fee above for more submittal information.
- B. Top of CWB NOI General Form - Selection of:
1. Appendix - Please see Section I.c. and/or Section III above for the Types of Discharges Authorized by an NPDES General Permit.
  2. NGPC Renewal Information - For an Existing Facility or Project with an NGPC
    - a. If this is a submittal for an NGPC renewal, provide the NGPC file number previously assigned to this facility or project in the space provided. Skip to Item 1 of the CWB NOI General Form.
    - b. If this is a submittal for a new facility or project, go to the Automatic Coverage selection portion of the CWB NOI General Form.
  3. Automatic Coverage Selection - For a New Facility or Project
    - a. Claiming Automatic Coverage - The owner or operator may request automatic coverage under the applicable NPDES General Permit if the CWB NOI Form is for a new discharge and he/she believes that the CWB NOI Form is complete, the filing fee has been paid, and that they are complying with the applicable NPDES General Permit requirements. The risks involved with claiming automatic coverage include:
      - i. The CWB NOI Form may later be found to be incomplete by the Director or by a court;
      - ii. The owner or operator may not be covered under the terms of the General Permit, even if the CWB NOI Form is complete;
      - iii. The owner or operator may be acting in conflict with the NPDES General Permit or HAR, Chapter 11-55 even if the owner or operator is complying with its CWB NOI Form; and
      - iv. The Director may modify, revoke and reissue, or terminate an NGPC under HAR, Section 11-55-34.11.
    - b. Waiving Automatic Coverage - The owner or operator agrees to wait until receipt of the NGPC issued by the Department before starting the activity or discharge.
- C. Remainder of CWB NOI General Form
1. Owner Information
    - a. The contact person may be the staff person with direct responsibility for the facility or project, not necessarily the certifying or "responsible" person as indicated in Item 7 of the CWB NOI General Form.

- b. The acknowledgment of receipt of the NOI may be sent to the fax number provided for this item. The NGPC will be sent to the street or mailing address provided for this item.

<b>CWB NOI Form</b>	<b>Form Specific Owner Information</b>
B	The owner is the organization or person who owns the activity or facility, not necessarily the owner of the land.
C	The owner may be the land owner or developer.
D	The owner is the organization or person who owns or leases the facility or land where the leaking underground storage tank is located.
E	The owner may be the owner of the facility.
F	The owner may be the land owner, land developer, or utility owner.
G	The owner may be the land owner, land developer, or utility owner.
H	The owner is the organization or person who owns the activity, not necessarily the owner of the land.
I	The owner may be the land owner, land developer, or utility owner.
J	See Guidelines for WWB-NOI Form J.
K	The owner is the government agency to which the small municipal separate storm sewer system (Small MS4) belongs, not necessarily the owner of the land.
L	The owner may be the pond or tank owner.

2. Owner Type - Indicate the category type or types of the owner. Options for Owner Type include:
- a. Industrial - Private Facility or Project
  - b. Municipal - City, County, or State Government Facility or Project
  - c. Federal - Federal Government Facility or Project
  - d. MS4 - Municipal Separate Storm Sewer System
3. Operator or General Contractor Information

<b>CWB NOI Form</b>	<b>Form Specific Operator or General Contractor Information</b>
B	The operator is the organization or person who manages the daily activities at the facility.
C	The operator is the general contractor. Provide the information in this item or check the space provided to indicate that the information will be submitted at least 30 calendar days before the start of construction activities.
D	The operator is the organization or person who manages the daily activities at the facility.
E	The operator is the organization or person who manages the daily activities at the facility.
F	The operator is the organization or person who manages the daily activities at the facility. For the general contractor, provide the information in this item or check the space provided to indicate that the information will be submitted at least 30 calendar days before the start of hydrotesting activities at the project.
G	The operator is the general contractor. Provide the information in this item or check the space provided to indicate that the information will be submitted at least 30 calendar days before the start of construction activities.
H	The operator is the organization or person who manages the daily activities at the facility.
I	Provide the information in this item.
J	See Guidelines for WWB-NOI Form J.

<b>CWB NOI Form</b>	<b>Form Specific Operator or General Contractor Information</b>
K	The operator is the organization or person who manages the daily activities of the small MS4.
L	Provide the information in this item.

4. Facility or Project Information - The street address is the facility or project location with respect to identifiable street names or adjacent developments or properties (i.e., 1234 15th Drive or northwest corner of 1st Street and X Avenue). The mailing address may be the mailing address of the facility's or project's contact person.

<b>CWB NOI Form</b>	<b>Form Specific Facility or Project Information</b>
B	For facilities which are part of a larger corporation, indicate the corporation name and the name by which the facility is known to the employees (i.e., ABC Inc. - DEF Facility).
C	For projects which are part of a larger plan of development or sale, indicate the project name and the phase(s) of the project.
D	For facilities which are part of a larger corporation, indicate the corporation name and the name by which the facility is known to the employees (i.e., ABC Inc. - DEF Facility).
E	For facilities which are part of a larger corporation, indicate the corporation name and the name by which the facility is known to the employees (i.e., ABC Inc. - DEF Facility).
F	For facilities which are part of a larger corporation, indicate the corporation name and the name by which the facility is known to the employees (i.e., ABC Inc. - DEF Facility). For projects which are part of a larger plan of development or sale, indicate the project name and the phase(s) of the project.
G	For projects which are part of a larger plan of development or sale, indicate the project name and the phase(s) of the project.
H	For facilities which are part of a larger corporation, indicate the corporation name and the name by which the facility is known to the employees (i.e., ABC Inc. - DEF Facility).
I	Provide the information in this item.
J	See Guidelines for WWB-NOI Form J.
K	If the Small MS4 is at a facility that is part of a larger government agency, then indicate the facility name and the name by which the small MS4 is known to the employees (i.e., State of Hawaii, Department of ABC - DEF Small MS4 System).
L	Provide the information in this item.

5. Receiving State Water(s) Information

a. Receiving State Water(s) Name

- i. State waters means "all waters, fresh, brackish, or salt around and within the State, including, but not limited to, coastal waters, streams, rivers, drainage ditches, ponds, reservoirs, canals, ground waters, and lakes; provided that drainage ditches, ponds, and reservoirs required as part of a water pollution control system are excluded" (from HRS, Section 342D-1).
- ii. Identify the receiving State water name in relation to the facility or construction site based on the topography or contours of the land, excluding evaporation, percolation, retention, detention, etc. If the discharge from the facility or construction site directly enters the State water, provide the name of that State water body. If the discharge first enters a separate storm drainage system, provide the name of the receiving State water body that the storm drainage system enters and complete Item 5.b. Sample responses for this item include:

Pacific Ocean at Sandy Beach, Honolulu Harbor, Pearl Harbor, Aiea Stream, unnamed stream, Kaloi Gulch, unnamed dry gulch, or gully, etc.

- iii. Provide the coordinates of the discharge point where discharge from the facility or construction site first enters the receiving State water. If the discharge first enters a storm drainage system, provide the discharge point coordinates for the outfall where the storm drainage system enters State waters to the nearest one (1) second. Methods available to obtain the discharge point coordinates include using: a Global Positioning System (GPS) receiver, a U.S. Geological Survey (USGS) Topographic Map to interpolate the coordinates (find the applicable map at <http://mac.usgs.gov/maplists/index.html>), or internet siting tools (e.g., [http://www.epa.gov/tri/report/siting\\_tool/index.htm](http://www.epa.gov/tri/report/siting_tool/index.htm), Google Earth, etc.).
- iv. State water classification is available on the Water Quality Standards Map dated October 1987 or in HAR, Chapter 11-54. The maps are available on the CWB website at <http://www.hawaii.gov/health/environmental/water/cleanwater/wqsmaps/index.html>. HAR, Chapter 11-54 is available on the DOH website at <http://www.hawaii.gov/health/about/rules/11-54.pdf>.
- v. If there are two (2) additional discharge points, insert the requested information on the form. If there are more than two (2) additional discharge points, attach the information requested in Item 5.a. on a separate sheet. Properly label the discharge points with numbers (i.e., Discharge Point No. 1, Discharge Point No. 2, etc.) which correspond to the location map(s) and flow chart(s) submitted. If there are multiple drainage structures (i.e., inlets) and multiple discharge points, designate which inlets lead to each discharge point.

vi.

CWB NOI Form	Form Specific Receiving Water Information
C	If the storm water discharge enters the receiving State water as a sheet flow, provide the coordinates based on the limits of discharge (i.e., Latitude 21°27'46"N, Longitude 158°01'27"W to Latitude 21°27'55"N, Longitude 158°01'44"W).
G	This general permit covers <u>discharges</u> to State waters, therefore, receiving State water(s) information must be provided.
J	See Guidelines for WWB-NOI Form J.

- b. Receiving Separate Drainage System - For Item 5.b., provide the discharge point coordinates to the nearest one (1) second for each drainage structure where the discharge enters the storm drainage system or where the discharges enter the right-of-way which flows into the storm drainage system. Methods available to obtain the discharge point coordinates include using: a GPS receiver, a USGS Topographic Map to interpolate the coordinates (find the applicable map at <http://mac.usgs.gov/maplists/index.html>), or internet siting tools (e.g., [http://www.epa.gov/tri/report/siting\\_tool/index.htm](http://www.epa.gov/tri/report/siting_tool/index.htm), Google Earth, etc.). If the approval to discharge into the storm drainage system is pending, submit a copy of the application or letter requesting approval. A copy of the approval to discharge letter or permit shall be submitted at least 30 calendar days before the start of construction activities.

## 6. Authorization of Representative

- a. Alteration of the text in this item will result in the invalidation of the authorization statement(s).
- b. If the person being duly authorized as the representative is the same person signing the certification page (Item 7), do not complete this item.



- c. Authorization statements are provided for the owner to complete as required. Options include statement(s): "A" or "B" or "C" or "A" & "C" or "D." If choosing "A" & "C," the owner may specify one representative in option "A" and another in option "C." Do not select "A" & "B" or "B" & "C" - this will cause a delay in the issuance of the NGPC.
- i. Option "A": This authorization begins with NOI processing and ends upon the owner's or operator's receipt of the NGPC. The Owner authorizes the duly authorized representative to submit additional information/documents necessary to complete the NOI Form. After issuance of the NGPC, the duly authorized representative is no longer recognized by the CWB and the owner corresponds directly with the CWB. The Owner is responsible for all information/documents submitted by the duly authorized representative for completion of the NOI, and upon issuance of the NGPC, will comply with and be responsible for all NGPC conditions.
  - ii. Option "B": This authorization begins with NOI processing and ends upon receipt of the CWB Notice of Cessation (NOC) Form by the CWB. The Owner authorizes the duly authorized representative to submit additional information/documents necessary to complete the NOI Form and to submit information/documents to comply with the NGPC conditions. The Owner is responsible for all information/documents submitted by the duly authorized representative for completion of the NOI and for compliance with the NGPC conditions. The Owner is required to sign the NOC Form for the project or phase of the project. After receipt of the NOC for the project, the duly authorized representative is no longer recognized by the CWB.
  - iii. Option "C": This authorization begins upon the owner's receipt of the NGPC and ends upon receipt of the CWB NOC Form by the CWB. The Owner authorizes the duly authorized representative to submit information/documents to comply with the NGPC conditions. The Owner is responsible for all information/documents submitted by the duly authorized representative for compliance with the NGPC conditions. The Owner is required to sign the NOC Form for the project or phase of the project. After receipt of the NOC for the project, the duly authorized representative is no longer recognized by the CWB.
  - iv. Option "D": If authorization statements a, b, and/or c do not meet the intent of the authorization, the owner or operator may attach a separate authorization statement specifying the limited authorization of the representative.
- d. Additional information will be requested from the authorized representative (with a copy to the owner) at the street or mailing address or phone or fax number provided for this item, as applicable.
- e. Provide the duly authorized representative's information in the applicable item(s). There shall be only one duly authorized representative at any time (e.g., a multi-phase construction project may have only one duly authorized representative for the entire project). The designated duly authorized representative may be changed by the owner at any time during the processing of the CWB-NOI Form or the term of the NGPC. The duly authorized representative will no longer be authorized effective on the date of receipt of any new authorization statement from the owner.
- f. Pursuant to HAR, Section 11-55-34.08(f), all other reports or responses to requests for information required by the director shall be signed by a person designated in HAR, Section 11-55-07(a) or by a duly authorized representative of that person.
- g. HAR, Sections 11-55-07(b) and (c) state:
- "(b) A person is a duly authorized representative only if:
- (1) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, superintendent, or position of

equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company, (A duly authorized representative may thus be either a named individual or any individual occupying a named position.);

(2) The authorization is made in writing by a person designated under subsection (a); and

(3) The written authorization is submitted to the director.

(c) If an authorization under subsection (b) is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of subsection (b) must be submitted to the director prior to or together with any reports, information, or applications to be signed by an authorized representative."

## 7. Certification

- a. Do not alter the statements in or format of this item. Alteration of this item will result in the invalidation of this CWB-NOI Form submittal.
- b. The person certifying this CWB-NOI Form must meet one of the descriptions as indicated in this item and be employed by the owner or be an administrator of the sole proprietorship, trust, or LLC listed in Item 1. **The contractor, consultant, and/or duly authorized representative is not authorized to sign.**

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## General Guidelines for NOI Forms B through L (CWBNOI\_\*.\*)

1. North American Industrial Classification System (NAICS) United States Structure Codes as applicable to CWB NOI Forms B, D, E, and H

NAICS United States Structure Codes (four- to six-digit industry code) replaced the U.S. Standard Industrial Classification (SIC) Codes. See <http://www.census.gov/epcd/www/naics.html> to determine the NAICS code(s) and description(s) for your facility.

2. Glossary of Chemicals as applicable to CWB NOI Forms B, D, F, G, H, I, and L

This glossary is for general use and is not intended to be a complete or definitive reference. The parameters are categorized into Metals, Organonitrogen Compounds, Pesticides, Phenols, Phthalates, Polynuclear Aromatic Hydrocarbons, Volatile Organics, and Others and are listed alphabetically.

The information was obtained primarily from Environmental Protection Agency (EPA) Ambient Water Quality Criteria documents which are referenced in EPA's Quality Criteria for Water (EPA 440/5-86-001), updated May 1, 1987. Additional information was obtained from the EPA pamphlet "Suspended, Cancelled and Restricted Pesticides," January 1985; The Condensed Chemical Dictionary, 10<sup>th</sup> Ed. (Van Nostrand Reinhold Co., Inc., New York, 1981); and The Farm Chemicals Handbook (Meister Publishing Company, Willoughby, OH, 1988).

Information on organotins was obtained from the International Organotin Symposium held at Halifax, Nova Scotia in September 1987 and published in Volume 4 of the Oceans '87 Proceedings, by the Marine Technology Society, Washington D.C., and IEEE Ocean Engineering Society, Piscataway, NJ.

### a. Metals

Antimony - A metal used as a hardening alloy for lead, particularly in lead-acid batteries. Also used as a semiconductor and in pyrotechnics.

Arsenic - A metal used as an alloy with lead and copper in shot, batteries, and cables.

Arsenic trioxide is used as a pigment and as an insecticide, rodenticide, herbicide, sheep and cattle dip, hide preservative, and wood preservative. It was used as a pesticide in the production of cane panels in Hilo. Use in houses is restricted to concentrations below 1.5 percent. Carcinogen.

Beryllium - A metal for various high-technology uses including nuclear reactor moderator and structural material. Carcinogen.

Cadmium - A metal used in electroplating and coating, alloys, nickel-cadmium batteries, pigments, and in a variety of other industrial areas.

Chromium - A metal used in plating, alloys and in pigments. Hexavalent forms are most toxic and are used in cooling tower additives.

Copper - A metal used in wiring, plumbing, electroplating, alloys, insecticides, and in anti-fouling paints.

Lead - A metal used in batteries, gasoline additives, solder, and ammunition.

Mercury - A metal used in dentistry, electronics, instruments, lamps, metallurgy and formerly in anti-fouling paints.

Nickel - A metal used in alloys, electroplating, and batteries.

Selenium - A metalloid element used in electronics, rubber production, dandruff shampoo, and a trace element in animal feed.

Silver - A metal with various electronic, chemical, plating, photographic, and dental uses.

Thallium - A metal. Pesticide registration of thallium sulfate cancelled.

Tributyltin - Tributyltin is of environmental concern primarily because of its use in marine anti-fouling paints. This use has recently been restricted by Congress. Organotins have also been used in agriculture and residential areas to control fungi and insects including moths, houseflies, cockroaches, and mosquito larvae. The largest use is in stabilizing polyvinyl chloride polymers used in construction materials and food packaging.

Zinc - A metal used in alloys, electroplating, galvanizing, batteries, and cathodic protection.

b. Organonitrogen Compounds

Benidine - Aromatic amine used in dye production. Carcinogen.

Dinitro-o-cresol - Pesticide, fungicide, insecticide and miticide. Also used as a blossom-thinning agent on fruit trees.

Dinitrotoluene - Commercial and military explosive.

Diphenylhydrazine - Used as a reagent for the sugars arabinose and lactose and for the production of phenylbutanone and benidine.

Nitrobenzene - Used in the production of aniline dyes, rubber, medicinals, metal polish, shoe black, perfume, and as a combustion propellant and chemical reaction, and crystallizing solvent.

Nitrosamines - Only small quantities are synthesized for research and rubber and pesticide production. Primary environmental exposure is probably due to the nitrosation of amine

and amide precursors in reactions in air, soil, water, food, and animal systems.  
Carcinogen.

c. Pesticides

Aldrin - Insecticide used in ground injection for termite control and non-food plant dip.  
Registration for other uses cancelled. Metabolizes to dieldrin. Carcinogen.

Chlordane - Insecticide used for termite control and non-food plant dip. Registration for other  
uses cancelled. Carcinogen.

Chlorpyrifos - Organophosphorus insecticide (a.k.a. Dursban, Lorsban). Used locally for  
termite control.

DDT - Persistent lipid-soluble chlorinated pesticide. Formerly most widely used. All pesticide  
uses cancelled except by government agencies and physicians. Metabolizes to DDE  
and TDE. Carcinogen.

Demeton - Systemic insecticide and acaricide applied as a foliage spray and soil drench.

Dieldrin - Persistent insecticide used in ground injection for termite control and as non-food  
plant dip. Registration for other uses cancelled. Carcinogen.

Endosulfan - Insecticide and acaricide (a.k.a. Thiodan). Used on pineapples in Hawaii.

Endrin - Pesticide, rodenticide, and avicide. Used on sugarcane to control the sugarcane  
beetle. Registration cancelled for control of the sugarcane borer. Teratogen.

Guthion - Organophosphorus pesticide used for many pests on various fruits, melons, nuts,  
vegetables, field crops, ornamental, and shade trees.

Heptachlor - Insecticide registered for termite control and non-food plant dip. Registration for  
other uses cancelled. Carcinogen.

Lindane - Broad spectrum insecticide used in livestock sprays, forestry, christmas trees,  
structural treatments, hardwood logs and lumber, dog sprays, dusts and dips, flea  
collars, moth sprays, seed treatments, shelf paper, and household sprays. Carcinogen.

Malathion - Organophosphorus insecticide used for many insects including: aphids, spider  
mites, scale insects, house flies, mosquitos, and for insects attacking fruits, vegetables,  
ornamental and stored products. Used in public health programs to control mosquitos.

Methoxychlor - Organochlorine pesticide.

Mirex - Organophosphorus insecticide. Registration cancelled 12/01/77. Mirex was used to  
control fire ants on pineapples in Hawaii.

Parathion - Organophosphorus pesticide used on fruit, nut, vegetable, and field crops.

TDE - Metabolite of DDT. Carcinogen.

Toxaphene - 175 compounds of chlorinated camphene. Formerly the most heavily used  
pesticide. Registration cancelled in 1982 with exceptions for cattle, pineapples, and  
bananas. No U.S. production. Persistent in the environment. Carcinogen.

d. Phenols

Chlorinated Phenols - (Includes chlorinated cresols). Synthesis of dyes, pigments, resins, pesticides, herbicides and used directly as flea repellents, fungicides, wood preservatives, mold inhibitors, antiseptics, disinfectants, and anti-gumming agents in gasoline. Chlorinated phenol pesticide products include 2,4-D, 2,4-DCP, 2,4,5-T, 2,3,4,6-TCP, and PCP. Some forms carcinogenic.

2-Chlorophenol - Intermediate in chemical production of fungicides, slimicides, bactericides, antiseptics, disinfectants, and wood and glue preservatives. Can be produced in the chlorination of drinking water and sewage. May be biodegraded.

2,4-Dichlorophenol - Used in the production of herbicides (2,4-D) and in mothproofing, antiseptics, and seed disinfectants. Metabolic and photodegradation product of the above.

Nitrophenols - 2,4,6 trinitrophenol (picric acid) has been used as an explosive, dye intermediate, reagent, germicide, fungicide, staining agent and tissue fixative, and in photochemicals, pharmaceuticals, and metal etching. Mono and dinitrophenols would occur in the environment primarily from discharges from manufacturing plants or possibly from the degradation of pesticides. They are used in the production of dyes, photochemicals, pesticides, wood preservatives, explosives, and leather treatments. See also 2,4 dinitro-o-cresol.

Pentachlorophenol - Very common pesticide, fungicide, and bactericide (a.k.a. PCP).

Phenol - Used in production of epoxy and phenolic resins, pharmaceuticals, germicides, fungicides, slimicides, herbicides, dyes and acids, and as a disinfectant and antiseptic.

e. Phthalates

Phthalate Esters - Plasticizers used especially in Polyvinyl chloride (PVC) production. Easily extractable and up to 60 percent of the total weight of plastic. Also used in the production of pesticide carriers, cosmetics, fragrances, munitions, industrial oils, and insect repellents.

f. Polynuclear Aromatic Hydrocarbons

Acenaphthene - Coal tar product used in the manufacturing of dyes and plastics and as an insecticide and fungicide. Also detected in cigarette smoke and gasoline exhaust.

Fluoranthene - A polynuclear aromatic hydrocarbon. Primarily a pyrolysis product formed in frying, smoking, incineration, etc. Natural as well as man-made sources. Carcinogen.

Naphthalene - Primary parameter of coal tar. Used in dye production, formulation of solvents, and chemical synthesis. Also used in lubricants and motor fuels, and as a moth repellent, insecticide, anthelmintic, vermicide, and intestinal antiseptic.

Polynuclear Aromatic Hydrocarbons - Diverse class of compounds formed by incomplete combustion of organics with insufficient oxygen. Examples include benzo[a]pyrene and benz[a]anthracene. Carcinogen.

g. Volatile Organics

Acrolein - Biocide for weed, algae, mollusk and slime control, and to protect liquid fuels from microorganisms. Also used in leather tanning, tissue fixation, paper, textiles, crease-proofing cotton, and as a chemical intermediate, plasticizer, copolymer in photography, builder in laundry and dishwashing detergents, and coating for aluminum and steel.

Acrylonitrile - Copolymer used in the production of fibers and plastics (e.g., ABS Acrylonitrile-Butadiene-Styrene plastic), and latexes and chemicals. Banned as a resin for soft drink containers and as a fumigant. Similar toxic effects as cyanide. Carcinogen.

Benzene - Coal tar and petroleum product used in pharmaceutical and chemical synthesis, including the production of styrene, detergents, pesticides, thinners, and inks. Also used as a cleaner and degreaser, solvent, and gasoline anti-knock additive. Carcinogen.

BHC - Benzene hexachloride. See hexachlorocyclohexane and lindane. Carcinogen.

Carbon Tetrachloride - Solvent and grain fumigant also used in fire extinguishers. Carcinogen.

Chlorinated Benzenes - Solvents for fats, oils and greases, also used as fumigants, degreasers, lubricants, dielectrics, dye carriers, wood preservatives; in chemical, pesticide, and herbicide production; heat transfer; military pyrotechnics; and termite control. Carcinogen.

Chlorinated Ethanes - Used in the production of tetraethyl lead and vinyl chloride and as solvents and chemical intermediates. Some forms carcinogenic.

Chloroalkyl ethers - Used in organic synthesis, textiles, ion exchange resins, pesticides, and reaction solvents.

Chloroform - Chemical solvent. Formed in the chlorination of sewage and water supplies. Carcinogen.

Dichlorobenzenes - Used in air deodorants, insecticides, chemical production, dyes, herbicides, and degreasers.

Dichlorobenzidine - Used in the production of dyes and pigments and a curing agent for polyurethanes. Carcinogen.

Dichloroethylenes - Intermediate in chemical production, and polyvinylidene chloride copolymers in food packaging materials (e.g., plastic wrap) and tank coatings. Degradation products of larger chlorinated hydrocarbons. Carcinogen.

Dichloropropane - Soil fumigant for nematodes, oil and fat solvent, and degreaser.

Dichloropropene - Soil fumigant for nematodes, used in Hawaii on pineapples. Also oil and fat solvent and degreaser.

Ethylbenzene - Up to 20 percent of gasoline. Widespread commercial use including production of styrene, diluents in paints, and used as insecticides.

Hexachlorobutadiene - Organic solvent used in chlorine production recovery, in rubber and lubricant production, and as a gyroscope fluid. Carcinogen.

Hexachlorocyclohexane - Broad spectrum insecticide (a.k.a. BHC). Only the gamma isomer, lindane, is currently registered and produced. Carcinogen.

Hexachlorocyclopentadiene - Base of several chlorinated pesticides including: aldrin, dieldrin, chlordane, heptachlor, endrin, isodrin, kepone, mirex, endosulfan, and pentac. Also used in the production of flame retardants.

Isophorone - Solvent for fats, oils, gums, natural and synthetic resins, cellulose derivatives, lacquers, pesticides and herbicides. Used in chemical and plant growth retardant production.

Tetrachloroethylene - Solvent in textile and dry cleaning, metal cleaning, and chemical production (a.k.a. perchloroethylene or PCE). Carcinogen.

Toluene - Aviation fuel and high-octane blending stock, chemical intermediate, thinner, solvent for paints, gums, resins, oils, rubber, and vinyl, and used in plastic cement, chemicals, explosives, and detergents.

Trichlorinated ethanes - Metal degreaser, chemical intermediate, adhesive and resin solvent, pesticide, dry cleaning solvent, formerly used as a fumigant 1,1,2 isomer carcinogenic.

Trichloroethylene - Degreasing solvent in metal industries. Formerly dry cleaning solvent and extractive solvent in foods (a.k.a. TCE). Carcinogen.

Vinyl chloride - Polymerized in the production of PVC, the most widely used material in the manufacture of plastics. All pesticide uses cancelled (whether an active or inert ingredient) for uses in the home, food handling establishments, hospitals, and enclosed areas. Degradation product of larger chlorinated hydrocarbons. Carcinogen.

h. Others

Chlorine - Chlorine is commonly used to disinfect wastewater and water supplies and to control fouling organisms in cooling water systems.

Cyanide - Used and formed in many industrial processes including steel, petroleum, plastics, synthetic fibers, metal plating, mining, and chemical industries.

Dioxin - Trace contaminant of chlorinated phenols, chlorinated phenoxy acids (especially the herbicide 2,4,5-T and Silvex), and hexachlorophene. Carcinogen.

Polychlorinated biphenyls (PCBs) - Used as a transformer and capacitor fluid. Also used as a heat transfer, hydraulic, compressor, and vacuum pump fluid, plasticizer, and in lubricants and wax extenders. No longer manufactured in the United States. All pesticide uses eliminated. Carcinogen.

~~3. Submittal to Department of Land and Natural Resources, State Historic Preservation Division (SHPD) for Review as applicable to CWB NOI Forms C and I~~

- ~~a. Failure to comply is a ground for the DOH to find the NOI incomplete and suspend processing or return the NOI.~~
- ~~b. Renewals and administrative extensions of NGPCs do not require another SHPD review.~~
- ~~c. If the new project, activity, or site to be covered by CWB NOI Form C has already been reviewed by SHPD prior to submittal of the NOI to DOH, the owner or operator shall identify any applicable prior comments, recommendations, or other communications by the SHPD and submit copies or a summary of SHPD materials in CWB NOI Form C. Extensive materials should be summarized or listed.~~
- ~~d. If the new project, activity, or site to be covered by CWB NOI Form C is to be reviewed by the SHPD at the time of the NOI submittal to DOH, the owner or operator shall also submit a copy of the NOI to SHPD for their review and submit a copy of the transmittal to SHPD.~~
- ~~e. Contact SHPD through the information below or check their website for updated contact information at [www.hawaii.gov/dlnr/hpd/hpcontact.htm](http://www.hawaii.gov/dlnr/hpd/hpcontact.htm).~~

- i. ~~O'ahu Office~~
  - (1) ~~Kakuhihewa Building, 601 Kamokila Blvd., Suite 555, Kapolei, Hawai'i 96707~~
  - (2) ~~Mailing address: P.O. Box 621, Honolulu, Hawai'i 96809~~
  - (3) ~~Ph: (808) 692-8015~~
  - (4) ~~Fax: (808) 692-8020~~
  
- ii. ~~Kaua'i Office~~
  - (1) ~~5532 Tapa Street, Koloa, Hawai'i 96756~~
  - (2) ~~Ph: (808) 742-7033~~
  - (3) ~~Fax: (808) 742-7329~~
  
- iii. ~~Maui Office~~
  - (1) ~~150 Mahalani Street, Wailuku, Hawai'i 96793~~
  - (2) ~~Ph: (808) 243-5169~~
  - (3) ~~Fax: (808) 243-5838~~
  
- iv. ~~Hawai'i Island Office~~
  - (1) ~~P.O. Box 67, Hilo, Hawai'i 96720~~
  - (2) ~~Ph: (808) 933-0482~~
  - (3) ~~Fax: (808) 933-0483~~





State of Hawaii  
Department of Health  
Clean Water Branch

**Do NOT submit  
this document.**

**Guidelines for CWB NOI Form C (CWBNOI\_C.pdf)**

**Guidelines for Notice of Intent for Hawaii Administrative Rules,  
Chapter 11-55, Appendix C, National Pollutant Discharge Elimination  
System (NPDES) Notice of General Permit Coverage (NGPC)**

**For coverage under a specific NPDES General Permit, the following items are required to be submitted to the Clean Water Branch (CWB):**

- A. **CWB NOI General Form** (CWBNOI\_General.pdf) with Certifying Person's original signature [via "Submit via Email" button and hard copy]
- B. **General Permit Specific CWB NOI Form C** (CWBNOI\_C.pdf) [via "Submit via Email" button and hard copy]
- C. **All applicable attachments** [via hard copy]
- D. **\$500 Filing Fee** [Check made payable to "State of Hawaii"]
- E. **Additional copies as required for Islands other than Oahu** [see Notes V.D. and V.E. of the General Guidelines]

subject to change

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General Instructions - This is a fillable Adobe Acrobat form. Please:

1. SAVE the blank form file in Adobe Acrobat Reader 8.0 or newer. If the form is completed while open in the web browser, it will NOT be saved and data will be lost.
2. Insert the required information - The NGPC Renewal Information is required for an Existing Facility with an NGPC. If this is for an Existing Facility without an NGPC or a New Facility, skip this item.
3. Save the completed form
4. Submit with "Submit via Email" button. Please insert the NGPC File No. or New Project Name in the subject line (remove the text within the parentheses).
5. Print with "Print Form" button

Mark-up 6/10/2010

Mark-up 1/21/2010

6. **Submit with the CWB NOI General Form, attachments, and \$500 Filing Fee.** Please see Note V - Inquiries and Submittals and Note VI - Filing Fee of the General Guidelines for more submittal information.

1. Construction Site Area

- a. Total area of the project site is the total area of the property(ies).
- b. Disturbance Area is the area of the project that is expected to undergo any disturbance, including, but not limited to excavation, grading, clearing, demolition, uprooting of vegetation, equipment staging, and storage areas. Clarification of disturbed areas is as follows:
  - i. On a project with eradication of pavement striping that will be using a scarifier to remove the pavement striping and a little of the surface of the pavement (does not enter into the base course), the eradicated area is not included in the disturbed area quantity.
  - ii. On a project with cold planing that does not enter into the base course, the cold planed area is not included in the disturbed area quantity.
  - iii. On a project with cold planing that does enter into the untreated base course (gravel), the cold planed area is included in the disturbed area quantity.
  - iv. On a project with cold planing that does enter into the stabilized treated base course (portland cement or asphalt concrete), the cold planed area is not included in the disturbed area quantity.
  - v. On a project with reconstruction, excavation normally is done into the untreated base course layer or to the subgrade. These areas are included in the disturbed area quantity.
  - vi. If the contractor parks equipment on the roadway, along the curb, or on a paved surface, these areas are included in the disturbed area quantity only if these areas are blocked off from public usage. If the contractor parks equipment on grassed areas or bare ground, that area is included in the disturbed area quantity.
  - vii. Areas which are cleared, graded, and/or excavated for the sole purpose of growing crops are considered to be agricultural and are therefore not included in the disturbed area quantity. This exemption **does not** extend to the construction of buildings and roads of agricultural or agriculture-related operations that disturb one (1) acre or more.
- c. The impervious area of the disturbed portion of the site after construction is completed is the area covered by asphalt, concrete, buildings, or any other impervious material.
- d. If construction will be done in phases, indicate the area(s) required for each phase of a multi-phase construction project.

2. Quantity of Storm Water Discharge

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.

3. Non-Storm Water Information

- a. Source(s) of the Non-Storm Water

Only storm water runoff through a construction activity is covered by this General Permit. If the non-storm water is discharged from the construction activity, identify where the water is discharged. Discharge of treated non-storm water into receiving State waters may require a separate NPDES permit. Provide information on any non-storm water (i.e., treated dewatering effluent, treated hydrotesting effluent discharge, equipment/vehicle washwater,

concrete truck drum wash water, irrigation water, water used for dust control, etc.) that may be generated during the construction activity.

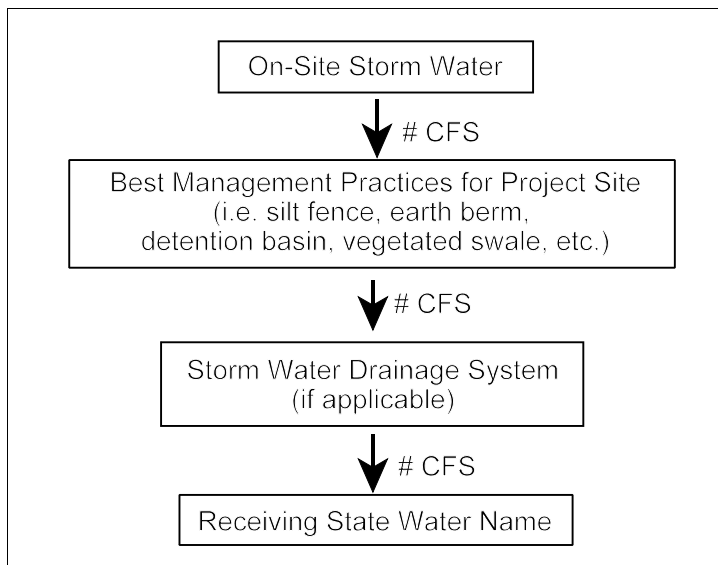
b. Non-Storm Water Handling Method

If the non-storm water is not discharged from the construction activity, identify the non-storm water handling methods to prevent discharge in detail, and show the locations of the controls, measures, or handling method(s) that will be implemented to prevent the discharge of the non-storm waters or indicate the page number(s) of the Site-Specific BMPs Plan which addresses the treatment of the non-storm water discharge.

4. Location Map

- a. Provide a location map on 8-1/2 by 11 inches sized paper showing the island on which the construction activity is located and the approximate location of the construction activity.
- b. Provide a topographic map on 8-1/2 by 11 inches sized paper or folded to 8-1/2 by 11 inches showing at least one mile beyond the construction activity's property boundaries and the receiving State water(s). The map should also include the discharge point(s) where the storm water runoff exits the construction activity and discharges to the receiving State water(s) and, if applicable, the locations where the storm water runoff enters into a storm drainage system/structure.
- c. If there is more than one (1) discharge point into a drainage structure and/or State receiving water, provide identification numbers and coordinates for each discharge point.

5. Flow Chart



An example of a line drawing indicating how the water flows through the project site and the approximate amount of flow is shown. Indicate any treatment system(s) or erosion control(s) used. The quantity of discharge contributed by each source (i.e., storm water from four different drainage areas) may be estimated if no data is available.

6. Existing or Pending Permits, Licenses, or Approvals

- a. Indicate any additional NPDES Permit number and/or NGPC File number which is associated with this facility.
- b. Provide any Department of the Army (DA) file number associated with the facility.
- c. Provide the Item 401 Water Quality Certification (WQC) file number associated with the DA Permit.
- d. Others (i.e., Underground Injection Control file number, ~~State Department of Land and Natural Resources - State Historic Preservation Division (SHPD) file number~~). ~~Submit the NOI to~~

~~SHPD for review of burial sites, historic burial sites, and native Hawaiian rights in compliance with Hawaii Revised Statutes, Chapter 6E-42(a). Provide the SHPD file number or submit a copy of the transmittal to SHPD. See Note 3 of the General Guidelines.~~

7. Construction Site Characterization

This item should address the pollutant(s) and source(s) associated with the past or existing conditions at the construction site and surrounding area, not those associated with the proposed construction activity.

8. Construction Best Management Practices (BMPs) Plan

If this entire item is completed with the project's site-specific information, it may be considered to be the Site-Specific Construction BMPs Plan. If any portion of the information requested is not completed or is a general response, this item will NOT be considered to be the Site-Specific Construction BMPs Plan.

Construction sequencing is not considered to be a multi-phased project. Submit a separate NOI if information is not available for the future phase of construction.

a. Project Site Map

i. Phasing Map - If construction will be done in phases, provide a phasing map identifying each phase of the multi-phase construction project and the boundaries of each phase as required in this item.

ii. Construction Plan(s) - Attach construction plan(s) (i.e., site plan, grading plan, drainage plan, erosion control plan, etc. folded to 8-1/2 by 11 inches) which shows the information requested in this item of CWB NOI Form C. If the item is not applicable indicate with "n/a." If the item is to be submitted later, indicate as such.

(1) Items (1) through (5) shall be submitted with the NOI.

(a) For Item (2) - Indicate the areas of soil disturbance (i.e., limits of grading, project area).

(b) For Item (3) - Indicate the project's drainage pattern(s) with flow arrows on a map showing the existing and finished grade contours within and along the boundaries of the project site (i.e., grading plan). Also show the direction of storm water runoff from the project site (i.e. excluding evaporation, percolation, retention, detention, etc.) to the receiving State water based on the topography or contours of the land or through the storm drainage system.

(2) If Items (6) through (10) are not available at the time of NOI submittal, the information may be submitted at least 30 calendar days before the start of construction activities.

(a) For (7) - Indicate the areas used for staging, storage, and/or stockpiling.

(3) If more than one map is submitted, indicate the map name that shows the information required for each item.

b. The construction BMPs plan shall describe methods to minimize erosion of soil and discharge of other pollutants into State waters and, after completion of the construction activity, removal procedures for the construction site BMPs. The control measures shall be designed, implemented and maintained in a manner to properly isolate and confine the construction activities and to contain and prevent the potential pollutant(s) discharges from impacting the State water quality.

i. Construction Activity - Describe the nature of the construction activity.

- (1) What is to be constructed and the construction sequence? The entire scope of work for the construction activity should be provided in this item (i.e., clearing and grubbing, installation of utilities, paving of roadways, excavation for swimming pool or footing, construction of building(s), landscaping, etc.).
  - (2) If the project is a multi-phase construction project, include a list of each phase.
  - (3) What type of materials and heavy equipment will be used for the construction activity?
- ii. Quality of Discharge - Describe the nature of the fill material to be used and existing data describing the soil or the quality of any discharge from the project site.
- iii. Potential Pollutant(s) - Identify all the potential pollutant(s) that will be generated by the proposed construction activities and show the location(s) of the proposed control measures or treatment, as applicable. These pollutants may include, but are not limited to:
- (1) Construction debris, removed vegetation;
  - (2) Discharges associated with the operation and maintenance of the equipment, such as oil, fuel and hydraulic fluid leakage;
  - (3) Soil erosion from the disturbed areas and stockpile areas; and
  - (4) Location(s) of oil, fuel or any hazardous material storage site(s) and containment structure(s).
- iv. Controls for Land Disturbances
- (1) A combination of sediment and erosion control measures are required to achieve maximum pollutant removal.
    - (a) Sediment Basins: For common drainage locations that serve an area with 10 or more acres disturbed at one time, a temporary (or permanent) sediment basin that provides storage for a calculated volume of runoff from the drainage area from a 2-year, 24-hour storm, or equivalent control measures, must be provided where attainable until final stabilization of the site. Where no such calculation has been performed, a temporary (or permanent) sediment basin providing 3,600 cubic feet of storage per acre drained, or equivalent control measures, must be provided where attainable until final stabilization of the site. When computing the number of acres draining into a common location, it is not necessary to include flows from offsite areas and flows from on-site areas that are either undisturbed or have undergone final stabilization where such flows are diverted around both the disturbed area and the sediment basin. In determining whether installing a sediment basin is attainable, the operator may consider factors such as site soils, slope, available area on-site, etc. In any event, the operator must consider public safety, especially as it relates to children, as a design factor for the sediment basin, and alternative sediment controls must be used where site limitations would preclude a safe design.
    - (b) For drainage locations which serve 10 or more disturbed acres at one time and where a temporary sediment basin or equivalent controls is not attainable, smaller sediment basins and/or sediment traps should be used. At a minimum, silt fences, vegetative buffer strips, or equivalent sediment controls are required for all down slope boundaries (and for those side slope boundaries deemed appropriate as dictated by individual site conditions).

- (c) For drainage locations serving less than 10 acres, smaller sediment basins and/or sediment traps should be used. At a minimum, silt fences, vegetative buffer strips, or equivalent sediment controls are required for all down slope boundaries (and for those side slope boundaries deemed appropriate as dictated by individual site conditions) of the construction area unless a sediment basin providing storage for a calculated volume of runoff from a 2-year, 24-hour storm or 3,600 cubic feet of storage per acre drained is provided.
- (2) The owner and/or general contractor shall comply with all conditions as stated in HAR, Chapter 11-55, Appendix C, under Special Conditions for Land Disturbances. The Department suggests including the following language in the BMPs plan. It may be amended to be site-specific (i.e., type of cover to be used:

The following special conditions apply to all land disturbance work conducted under this general permit:

(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 0.5 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.

v. Erosion and Sediment Control Requirements - If applicable, submit the county-approved erosion and sediment control plan and/or the county-approved grading permit as appropriate for the activity and a schedule for implementing each control with the NOI or 30 calendar days before the start of construction activities. If the approval is pending, submit a copy of the grading permit application.

vi. Construction Schedule - Attach the proposed construction schedule which shall include, at a minimum:

- (1) The date when the general contractor will begin and end the site disturbance;
- (2) Dates when erosion control measures will be implemented and removed;
- (3) The proposed timetable for major activities; and
- (4) The dates when major construction activities begin and end.

c. The site-specific construction BMPs plan shall be submitted as an attachment to CWB NOI Form C or 30 calendar before the start of construction activities. If there are items of the facility site map or other portions of this item listed as to be submitted, your construction BMPs plan is **not** considered site-specific. The control measures proposed in the site-specific construction BMPs plan shall be site and project specific. If the site-specific construction BMPs plan is submitted at a later date, it must be signed in accordance with HAR, Section 11-55-34.08(e). A copy of the site-specific construction BMPs plan must be kept at the construction site.

9. Post-Construction Pollutant Control Measures

Examples of measures that will minimize the discharge of pollutants via storm water discharges after construction operations have been finished include: hydro-mulch or landscape all of the exposed areas; vegetate swales and natural depressions; structures for storm water retention, detention, or recycling; velocity dissipation devices to be placed at the outfalls of detention structures or along with the length of outfall channels; or other appropriate measures.

10. Additional Information

Any other site-specific information pertaining to the project may also be provided in this item. Additional sheets may be attached with reference to this item.







# CWB NOI General Form for Appendix **C**

Previously assigned  
NGPC File No  
(for renewal NOI only): HI \_\_\_\_\_

**Automatic  
Coverage  
(for New NOI  
only)**

☐

I elect to **claim** automatic coverage per HAR, Section 11-55-34.09(f).

☒

I elect to **waive** automatic coverage per HAR, Section 11-55-34.09(g).

## 1. Owner Information

Owner Legal Name State of Hawaii

Owner Department Department of Health

Owner Division Environmental Management Division, Clean Water Branch

Owner Mailing Address P.O. Box 3378

Owner Mailing City Honolulu Owner Mailing State HI Owner Mailing Zip+4 96801-3378

Owner Street Address 919 Ala Moana Boulevard, Room 301

Owner City Honolulu Owner State HI Owner Zip+4 96814-4920

Owner Contact Person First Name Apoha Owner Contact Person Last Name O'opu

Owner Contact Person Position Title Fish Chief

Owner Phone No 808 586-4309 Owner Fax No 808 586-4352

Owner Contact Person Email CleanWaterBranch@doh.hawaii.gov

2. Owner Type Industrial

Options for Owner Type:

Industrial - Private Facility or Project

Municipal - City, County, or State Government Facility or Project

Federal - Federal Government Facility or Project

MS4 - Municipal Separate Storm Sewer System

## 3. Operator or General Contractor Information



For CWB-NOI Forms C, F, G, and I only

The general contractor information will be submitted at least 30 calendar days before the start of construction activities.

Operator Legal Name \_\_\_\_\_

Operator Department \_\_\_\_\_

Operator Division \_\_\_\_\_

Operator Mailing Address \_\_\_\_\_

Operator Mailing City \_\_\_\_\_ Oper. Mailing State HI Operator Mailing Zip+4 \_\_\_\_\_

Operator Street Address \_\_\_\_\_

Operator City \_\_\_\_\_ Operator State HI Operator Zip+4 \_\_\_\_\_

Operator Contact Person First Name \_\_\_\_\_ Oper. Contact Person Last Name \_\_\_\_\_

Operator Contact Person Position Title \_\_\_\_\_

Operator Phone No \_\_\_\_\_ Operator Fax No \_\_\_\_\_

Operator Contact Person Email \_\_\_\_\_

#### 4. Facility or Project Information

Facility Legal Name Apoha Aquarium

Facility Mailing Address P.O. Box 3378

Facility Mailing City Honolulu Facility Mailing State HI Facility Mailing Zip+4 96801-3378

Facility Street Address Southeast Corner of Ward Avenue and Ahui Street

Facility City Honolulu Facility State HI Facility Zip+4 96814-0000

Facility Contact Person First Name Apoha Facility Contact Person Last Name O`opu

Facility Contact Person Position Title Fish Chief

Facility Phone No 808 586-4309 Facility Fax No 808 586-4352

Facility Contact Person Email CleanWaterBranch@doh.hawaii.gov

Island of Facility Oahu If there are multiple Plat and/or Parcel Numbers, please separate them with semi-colons.  
If there are more Tax Map Keys (TMKs), please attach a separate sheet.

TMK Division	Zone	Section	Plat	Parcel or Lot
(1)	2	1	058; 123	095 (portion)

#### 5. Receiving State Water(s) Information

5.a. Number of Receiving State Waters 1

5.a.i. Receiving Waters Name Kewalo Basin

Receiving Waters Classification A, Embayment

Latitude Degrees (N)	<u>021</u>	Latitude Minutes	<u>17</u>	Latitude Seconds	<u>37</u>
Longitude Degrees (W)	<u>157</u>	Longitude Minutes	<u>51</u>	Longitude Seconds	<u>31</u>

5.a.ii. Additional Receiving Waters Name Kewalo Basin - Sheet Flow Pt. A

Receiving Waters Classification A, Embayment

Latitude Degrees (N)	<u>021</u>	Latitude Minutes	<u>17</u>	Latitude Seconds	<u>37</u>
Longitude Degrees (W)	<u>157</u>	Longitude Minutes	<u>51</u>	Longitude Seconds	<u>29</u>

5.a.iii. Additional Receiving Waters Name Kewalo Basin - Sheet Flow Pt. B

Receiving Waters Classification A, Embayment

Latitude Degrees (N)	<u>021</u>	Latitude Minutes	<u>17</u>	Latitude Seconds	<u>36</u>
Longitude Degrees (W)	<u>157</u>	Longitude Minutes	<u>51</u>	Longitude Seconds	<u>32</u>

5.b. Receiving Separate Drainage System - Complete the following if the discharge from your facility or project first enters a separate storm drainage system (e.g., City and County of Honolulu Municipal Separate Storm Sewer System [MS4] , etc.)

Separate Drainage System Owner Name Hawaii Community Development Authority (HCDA) Small MS4

Latitude Degrees (N)	<u>021</u>	Latitude Minutes	<u>17</u>	Latitude Seconds	<u>39</u>
Longitude Degrees (W)	<u>157</u>	Longitude Minutes	<u>51</u>	Longitude Seconds	<u>34</u>

☐ Drainage System Owner Approval to Discharge is attached.

☒ The request to the Drainage System Owner for Approval to Discharge is attached. The Approval to Discharge will be submitted at least 30 calendar days before the start of construction activities or discharge, whichever is sooner.

**6. Authorized Representative Information** - Select authorization under A or B or C or A & C or D. Do not select A & B or B & C - this will cause a delay in the issuance of the NGPC.

- ☐ A. This statement authorizes the named individual or any individual occupying the named position of the company/organization listed below to act as our representative to submit information/documents necessary to complete the CWB NOI Form for coverage under the NPDES general permit to discharge to State waters from the subject facility. The Owner hereby agrees to comply with and be responsible for all NGPC conditions.
- ☒ B. This statement authorizes the named individual or any individual occupying the named position of the company/organization listed below to act as our representative to submit information/documents necessary to complete the CWB NOI Form for coverage under the NPDES general permit to discharge to State waters from the subject facility. Our representative is further authorized to submit information/documents for compliance with the NGPC conditions, except submittal of the CWB NOC Form. The Owner hereby agrees to comply with and be responsible for all NGPC conditions.

Representative Company/Organization Name State of Hawaii

Representative Department Department of Health

Representative Division Environmental Management Div., Clean Water Branch

Representative Mailing Address P.O. Box 3378

Rep. Mailing City Honolulu Rep. Mailing State HI Rep. Mailing Zip+4 96801-3378

Representative Street Address 919 Ala Moana Boulevard, Room 301

Representative City Honolulu Rep. State HI Representative Zip+4 96814-4920

Representative First Name Alec Representative Last Name Wong, P.E.

Representative Position Title Branch Chief

Representative Phone No 808 586-4309 Representative Fax No 808 586-4352

Representative Contact Person Email alec.wong@:-)

- ☐ C. This statement authorizes the named individual or any individual occupying the named position of the company/organization listed below to act as our representative to submit information/documents for compliance with the NGPC conditions, except submittal of the CWB NOC Form. The Owner hereby agrees to comply with and be responsible for all NGPC Conditions.
- ☐ D. A separate authorization statement is attached, specifying the limited authorization of the representative.

Representative Company/Organization Name \_\_\_\_\_

Representative Department \_\_\_\_\_

Representative Division \_\_\_\_\_

Representative Mailing Address \_\_\_\_\_

Rep. Mailing City \_\_\_\_\_ Rep. Mailing State HI Rep. Mailing Zip+4 \_\_\_\_\_

Representative Street Address \_\_\_\_\_

Representative City \_\_\_\_\_ Rep. State HI Representative Zip+4 \_\_\_\_\_

Representative First Name \_\_\_\_\_ Representative Last Name \_\_\_\_\_

Representative Position Title \_\_\_\_\_

Representative Phone No \_\_\_\_\_ Representative Fax No \_\_\_\_\_

Representative Contact Person Email \_\_\_\_\_

**7. Certification** - Alteration of this item will result in the invalidation of this CWB-NOI Form submittal. **The person certifying this CWB-NOI Form must meet one of the following descriptions and be employed by the owner or be an administrator of the sole proprietorship, trust, or LLC listed in Item 1.**

<input checked="" type="radio"/>	I certify that for a state agency, I am a principal executive officer or ranking elected official.
<input type="radio"/>	I certify that for a municipal agency, I am a principal executive officer or ranking elected official.
<input type="radio"/>	I certify that for a non-federal public agency, I am a principal executive officer or ranking elected official.
<input type="radio"/>	I certify that for a federal agency, I am the chief executive officer of the agency, or I am the senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.
<input type="radio"/>	I certify that I am a general partner for a partnership.
<input type="radio"/>	I certify that for a corporation, I am the President, Vice President, Secretary, or Treasurer of the corporation and in charge of a principal business function, or I perform similar policy or decision-making functions for the corporation.
<input type="radio"/>	I certify that I am the proprietor for a sole proprietorship.
<input type="radio"/>	I certify that for a corporation, I am the Manager of one or more manufacturing, production, or operating facilities and am authorized to make management decisions which govern the operation of the regulated facility or facilities including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations. I can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements and authority to sign documents has been assigned or delegated to me in accordance with corporate procedures.
<input type="radio"/>	I certify that for a trust, I am a trustee.
<input type="radio"/>	I certify that for a limited liability company (LLC), I am the Manager or a Member authorized to make management decisions for the LLC and am in charge of a principal business function, or I perform similar policy or decision-making functions for the LLC.

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	
Chiyome Leinaala		8/3/2010	
Certifying Person First Name	Chiyome Leinaala	Certifying Person Last Name	Fukino, M.D.
Certifying Person Position Title	Director		
Certifying Person's Company or Agency	State of Hawaii		
Certifying Department	Department of Health		
Certifying Division	Environmental Management Division, Clean Water Branch		
Certifying Phone No	808 586-4410	Certifying Fax No	808 586-4444
Certifying Person Email	TheDirectorOfHealth@:-)		

For facilities/projects on the island of Oahu, submit one (1) copy of the CWB NOI General Form, applicable discharge form (e.g., CWB NOI Form C), and supporting documents with the certifying person's original signature and \$500 Filing Fee.

~~For facilities/projects on the island of Hawaii, submit three (3) copies of the CWB NOI General Form, applicable discharge form (e.g., CWB NOI Form C), and supporting documents. One copy of the CWB NOI General Form shall include the certifying person's original signature and \$500 Filing Fee.~~

~~For facilities/projects located on islands other than Oahu and Hawaii, submit two (2) copies of the CWB NOI General Form, applicable discharge form (e.g., CWB NOI Form C), and supporting documents. One copy of the CWB NOI General Form shall include the certifying person's original signature and \$500 Filing Fee.~~

Submit by Email
Print Form

Notice of Intent for NPDES General Permit Coverage  
 Authorizing **Discharge of Storm Water Associated  
 with Construction Activities**  
**HAR, Chapter 11-55, Appendix C**

Previously assigned  
 NGPC File No  
 (for renewal NOI only): HI \_\_\_\_\_

**C.1. Construction Site Area**

- a. Total Area of the project site (in Acres) 1.5
- b. Disturbance Area (in Acres) 1.25
- c. Impervious Area of the project after construction is completed (in Acres) .75
- d. Area of each phase of a **multi-phase construction project** (Indicate Phase Number and Area in acres)
- |         |            |
|---------|------------|
| Phase 1 | 1.0 acres  |
| Phase 2 | 0.25 acres |

Construction sequencing is not considered to be a multi-phased project. Submit a separate NOI if information is not available for the future phase of construction.

**C.2. Quantity of Storm Water Discharge** - What is the quantity of storm water that may be discharged from the construction site?

Provide the supporting calculations in an attachment.

0.25units Million Gallons per Day**C.3. Non-Storm Water Information** - Indicate the non-storm water disposal method and location for the handling of the applicable non-storm waters. If the non-storm water is discharged to State waters, the construction activity may require a separate NPDES permit.

- a. Water for Dust control The water shall not exceed minimum amounts necessary to control dust. Water is expected to percolate into the soil on which it is applied.
- b. Concrete Truck Wash Water Wash water from washing of concrete truck drums/hoppers/chutes will be contained in a shallow, lined basin in a designated area. Water will be allowed to evaporate in lined area. Solids will be collected and disposed of at landfill. See Figure 6.
- c. Construction Exit Wash Water Specific BMP measures for wash water containment within this base yard will be developed by the eventual Contractor and submitted to the DOH-CWB at least 30 calendar days before the start of construction activities for review and acceptance.
- d. Irrigation Water The amount of water to be used at any one time will be regulated such that runoff from irrigation will be avoided.
- e. Hydrotesting Effluent Hydrotesting effluent which includes waterlines and sprinkler lines will be de-chlorinated and applied in landscaped areas and allowed to percolate on-site.
- f. Dewatering Effluent Obtaining NGPC for this discharge
- g. Saw-cutting Slurry Slurry generated from saw-cutting operations will be disposed in a lined basin and allowed to evaporate. Dry residue will be collected and disposed as solid waste.
- h. Concrete Curing Water Curing compound applied w/ water spray during dry working periods and compound adheres and dries in short time period. No concrete pouring/curing application in inclement weather. The amt of water to be used will be regulated so overspraying is avoided.
- i. Water-Jet Wash Water n/a
- j. Other (as identified) n/a

**C.4. Location Map** - Provide a map or maps showing the following and identify the map or figure number in the space provided.:

- a. Island on which the project is located Figure 1
- b. Vicinity of the project on the island Figure 1
- c. Legal boundaries of the project Figure 2
- d. Topography of the project Figure 3
- e. Location and identification number of each of the project's existing and/or proposed outfalls or discharge points Figure 4
- f. Receiving State water(s) and receiving storm water drainage system(s), as applicable, identified and labelled Figure 5

**C.5. Flow Chart** or line drawing - Attach a flow chart showing the following (check each item).

- ☒ a. Storm water entering the project from off-site areas
- ☒ b. General route taken by storm water through the project (show the routes through different drainage areas)
- ☒ c. Treatment system(s) utilized for the reduction of sediment (e.g., silt fence, earth berm, detention basin, vegetated swale, etc.)
- ☒ d. Best Management Practices (BMPs) utilized to prevent erosion (e.g., erosion control mats, reduced open area, revegetation, etc.)
- ☒ e. Quantity of flow through each applicable route from upslope to the receiving State water
- ☒ f. Drainage system(s) receiving storm water from the project, as applicable (e.g., City and County of Honolulu Municipal Separate Storm Sewer System (MS4), etc.)
- ☒ g. State water name(s) receiving storm water from the project

Indicate which item(s) are not identified \_\_\_\_\_

**C.6. Existing or Pending Permits, Licenses, or Approvals** for the project are listed by number for the following:

- |  |  |
|--|--|
| a. Other NPDES Permit or NGPC File No.   | HI 10GZ998                                       |
| b. Department of the Army Permit (Section 404)   | n/a  |
| c. Facility on SARA 313 List (identify SARA 313 chemicals on project site)   | n/a  |
| d. RCRA Permit (Hazardous Wastes)  | n/a  |
| e. Section 401 Water Quality Certification   | n/a  |
| f. Department of Land and Natural Resources State Historic Preservation Division (attach a copy of the transmittal to or response from SHPD) | No longer required - Rule repealed on 6/15/2009. |
| g. Other(s)  | n/a  |

**C.7. Construction Site Characterization**

**C.7.a. Describe the history of the land use**

\_\_\_\_\_ The land was previously a new car lot...

**C.7.b. Describe any existing pollution source(s)** - Check the following items for historical sources of pollution, as applicable.

- ☐ i. DOH, Solid and Hazardous Waste Branch - Hawaii Underground Storage Tank - Leaking Underground Storage Tank database
- ☐ ii. DOH, Hazard Evaluation and Emergency Response Office records
- ☐ iii. Phase I and/or Phase II Environmental Site Assessments, as applicable
- ☐ iv. Recent site inspections
- ☒ v. Past land use history
- ☐ vi. Soil sampling data, if available
- ☐ vii. Other (specify)

**C.7.c. Pollution Sources Corrective Measures:**

Describe any corrective measures that have been undertaken for the historical pollution source(s) checked above.

\_\_\_\_\_ The soil will be checked for signs of pollutants and stockpiles of excavated materials will be covered and surrounded by fiber rolls.

**C.8. Construction Best Management Practices (BMPs) Plan**

**C.8.a. Project Site Map(s)**

**C.8.a.i. Phasing Map(s)** - The construction will be done in \_\_\_\_\_ two (2) phases.

- ☐ (1) A phasing map is not required for this single-phase construction project.
- ☒ (2) A phasing map identifying each phase of the multi-phase construction project and the boundaries of each phase is attached.
- ☐ (3) A phasing map identifying each phase of the multi-phase construction project and the boundaries of each phase will be submitted at least 30 calendar days before the start of construction of each phase of the project.

**C.8.a.ii. - Construction Plan(s)** - Hard copies of the project construction plans which show the following information are attached. Identify the map name and/or number or "n/a" (for not applicable) in the space to the right of the listed item. Items (1) through (5) shall be submitted with the NOI. If Items (6) through (10) are not available at the time of NOI submittal, the information may be submitted at least 30 calendar days before the start of construction activities (please indicate as such).

(1) Approximate slopes anticipated after major grading activities and pre-construction, during-construction, and post-construction drainage patterns;	Sheet C-5
(2) Areas of soil disturbance;	Sheets C-3, C-4, and C-5
(3) Location(s) of impervious structures (including buildings, roads, parking lots, etc.) after construction is completed;	Sheets C-3 and C-4
(4) Wetlands and other State water(s);	Sheets C-5 and C-6
(5) Boundaries of 100-year flood plans;	Sheet C-5
(6) Construction Baseyard and/or staging areas;	to be submitted at least 30 calendar days prior to the start of constr'n activities for acceptance.
(7) Areas used for the storage of soils, construction materials, or wastes and areas for the disposal of wash water from washing down of construction equipment and vehicles, concrete truck drum wash water, treated dewatering effluent, hydrotesting effluent discharge, etc.;	to be submitted at least 30 calendar days prior to the start of constr'n activities for acceptance.
(8) Location(s) where stabilization practices are expected to occur;	to be submitted at least 30 calendar days prior to the start of constr'n activities for acceptance.
(9) Location(s) and descriptions of all structural controls including those that will be used to divert the offsite storm water from flowing into the constructions site and;	to be submitted at least 30 calendar days prior to the start of constr'n activities for acceptance.
(10) Areas where vegetative practices are to be implemented.	to be submitted at least 30 calendar days prior to the start of constr'n activities for acceptance.

**C.8.b. Construction BMPs Plan** - Please select only one of the following. The construction BMPs plan shall provide information requested by describing methods to minimize erosion of soil and discharge of other pollutants into State waters and, after completion of the construction activity, removal procedures for the construction site BMPs.

- ☒ Responses for the construction BMPs plan are provided in this form ~~(no electronic attachments accepted at this time).~~
- ☐ The construction BMPs plan is attached on separate sheets with reference to this Item number.

**C.8.b.i. Construction Activity** - Describe the nature of the construction activity.

(1) What is to be constructed (e.g., the entire scope of the construction activity)?	The project scope includes excavation for the aquarium, installation of the pump system, site work for parking and buildings, ...
(2) If the project is a multi-phase construction project, include a list of each phase.	Phase 1 - Construction of aquarium and sitework. Phase 2 - Construction of parking garage for aquarium.
(3) What type of materials and heavy equipment will be used for the construction activity?	Concrete, asphalt, base course, wood, nails, ... Bulldozer, excavator, forklift, ...

**C.8.b.ii. Quality of Discharge** - Describe the nature of the fill material to be used and existing data describing the soil or the quality of any discharge from the project site.

Soil at the facility, concrete, base course, ...



**C.8.b.iii. Potential Pollutant(s)** - Identify the proposed control measures or treatment measures for all potential pollutant(s), other than those listed in Item C.3., that will be generated by the proposed construction activities.

(1) Construction debris, removed vegetation;	See Appendix B C.8.b.iii.	<div style="border: 1px solid red; padding: 5px; color: red;">                     If disposal and/or maintenance is indicated to be done off-site, please provide the location and ensure that there are BMPs to prevent polluted runoff from discharging to State waters.                 </div>
(2) Discharges associated with the operation and maintenance of the equipment, such as oil, fuel and hydraulic fluid leakage;	See Appendix B C.8.b.iii.	
(3) Soil erosion from the disturbed areas and stockpile areas;	See Appendix B C.8.b.iii.	
(4) Location(s) of oil, fuel or any hazardous material storage site(s) and containment structure(s);	See Appendix B C.8.b.iii.	
(5) Discharges associated with emulsified asphalt or prime/tack coat;	See Appendix B C.8.b.iii.	
(6) Discharges associated with painting and paint wash solvent/water;	See Appendix B C.8.b.iii.	
(7) Industrial chemicals, fertilizers, and/or pesticides; and	See Appendix B C.8.b.iii.	
(8) Other Sources.	See Appendix B C.8.b.iii.	

**C.8.b.iv. Controls for Land Disturbances** - The owner and/or general contractor shall check the box to indicate that at a minimum, they will comply with all conditions as stated below from HAR, Chapter 11-55, Appendix C, under Special Conditions for Land Disturbances. It may be amended to be site-specific (i.e., type of cover to be used).

- ☒

(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 0.5 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.

Additional and/or Site-Specific Controls for the Project \_\_\_\_\_



**C..8.b.v. Erosion and Sediment Control Requirements** - Please select only one of the following.

- ☐ i. The county-approved erosion and sediment control plan and/or grading permit , where applicable, as appropriate for the activity and a schedule for implementing each control is attached to the NOI.
- ☒ ii. The county-approved erosion and sediment control plan and/or grading permit , where applicable, as appropriate for the activity and a schedule for implementing each control will be submitted at least 30 calendar days before the start of construction activities.
- ☐ iii. The county-approved erosion and sediment control plan and/or grading permit , where applicable, is not required. The written determination is attached or the contact information is as follows:

Date of Letter or

Name, Department, Phone Number, and Date Contacted \_\_\_\_\_

**C.8.b.vi. Construction Schedule** - Attach the proposed construction schedule which shall include, at a minimum:

- (1) The date when erosion control measures will be implemented. 10/12/2010
- (2) The date when the general contractor will begin the site disturbance. 10/26/2010
- (3) The date when major construction activities begin. Oct 26, 2010
- Install erosion control measures - 10/12/2010  
Mobilization of equipment and construction baseyard - 10/26/2010  
...  
...  
Excavation - 11/15/2010  
...  
...  
...  
Topping off - 08/31/2012  
Demobilize - 09/15/2012  
Remove erosion control measures - 10/01/2012
- (4) The proposed timetable for major activities.
- (5) The date when major construction activities end. Aug 31, 2012
- (6) The date when the general contractor will end the site disturbance. Sep 15, 2012
- (7) The date when erosion control measures will be removed. Oct 1, 2012

**C.8.c. The Site-Specific Construction BMPs Plan** - Please select one.

- ☐ The Site-Specific Construction BMPs Plan is attached to the NOI. Responses and attachments for all of Items C.8.a. and C.8.b. are provided and are site-specific to the construction project.
- ☒ The Site-Specific Construction BMPs Plan will be submitted at least 30 calendar days before the start of construction activities.

**C.9. Post-Construction Pollutant Control Measures** - Please insert the requested information in the space provided or select one of the following choices. The description of measures that will minimize the discharge of pollutants via storm water discharge after construction operations have been completed are as follows:

The project will install oil-water separators and ... to reduce the amount of pollutants entering Kewalo Basin. The project owner and potential new owners will perform routine maintenance of these post-construction BMPs.

- ☐ The description of measures that will minimize the discharge of pollutants via storm water discharge after construction operations have been completed are attached.
- ☐ The description of measures that will minimize the discharge of pollutants via storm water discharge after construction operations have been completed will be submitted at least 30 calendar days before the start of construction activities.

**C.10. Additional Information** n/a

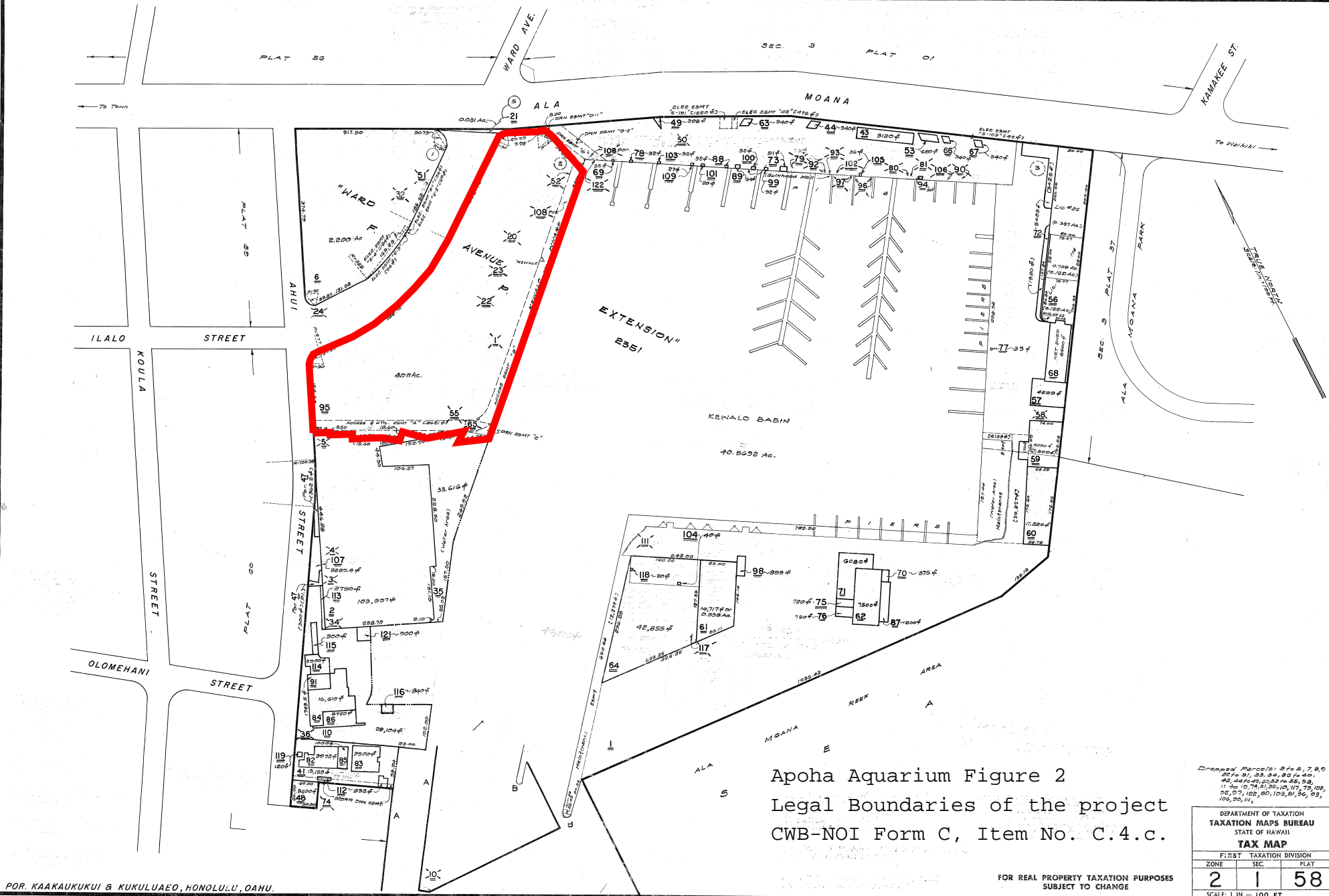
Print Form

Submit by Email

**Apoha Aquarium Figure 1**  
**Island of Oahu and Vicinity Map**  
**CWB-NOI Form C, Item No. C.4.a and b**



DWG. NO. 3855 (REVISED)  
 SOURCE: TPA & EIR, OAHU, 1981, 1982  
 BY: M. J. ROY  
 DATE: 10/1/82



Apoha Aquarium Figure 2  
 Legal Boundaries of the project  
 CWB-NOI Form C, Item No. C.4.c.

POR. KAAKAUKUKUI & KUKULUAEO, HONOLULU, OAHU.

FOR REAL PROPERTY TAXATION PURPOSES  
 SUBJECT TO CHANGE

Dropped Parcels: 1, 3, 4, 5, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

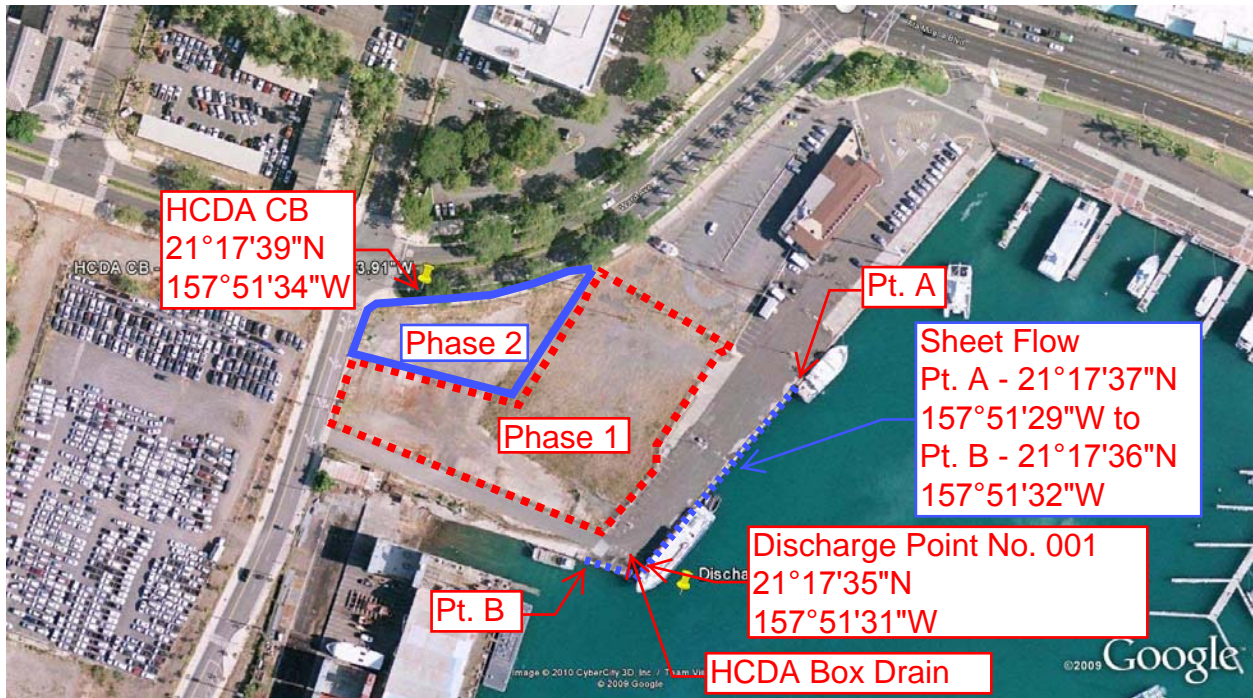
DEPARTMENT OF TAXATION  
 TAXATION MAPS BUREAU  
 STATE OF HAWAII  
**TAX MAP**

FIRST TAXATION DIVISION		
ZONE	SEC.	PLAT
2	1	58

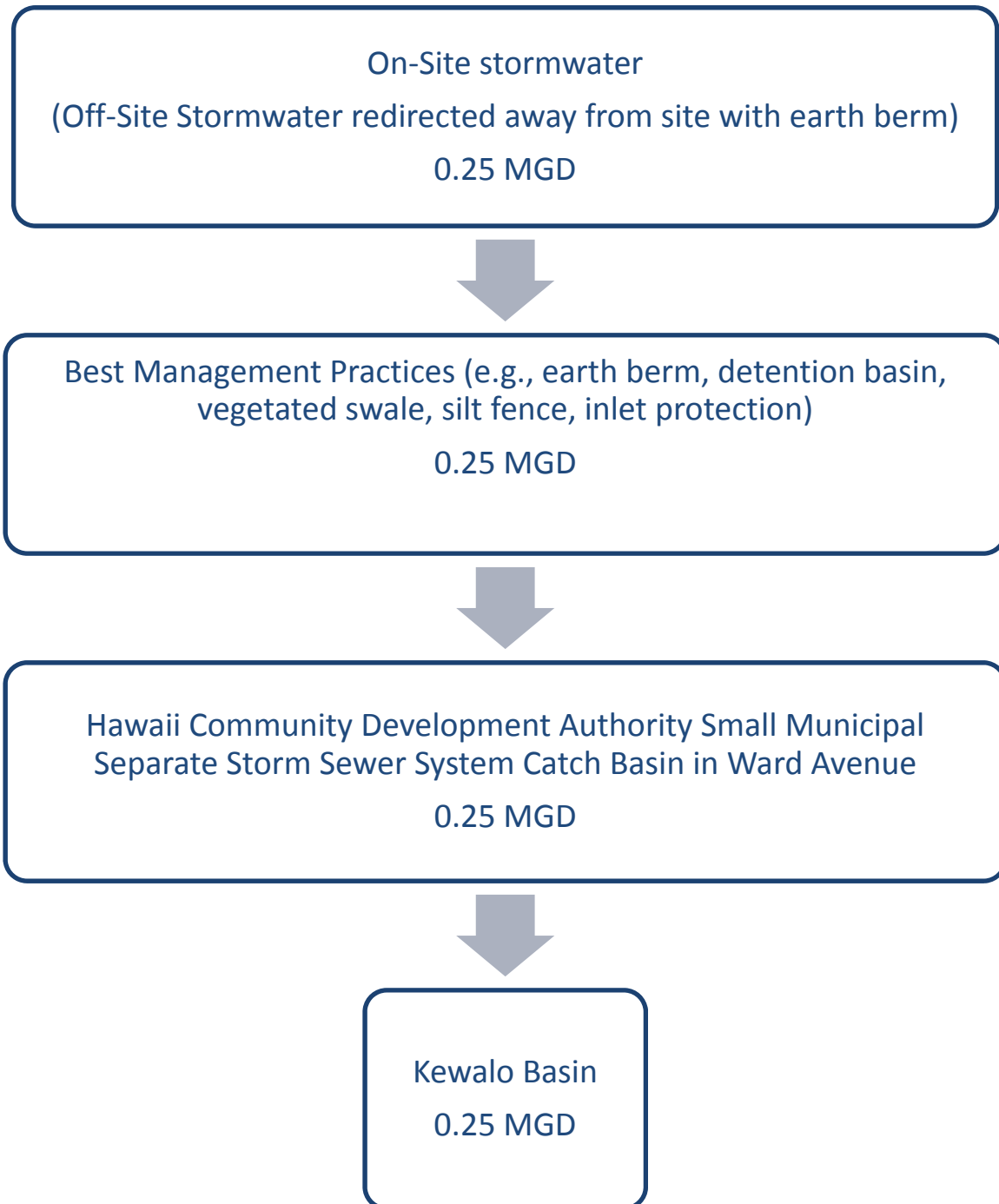
SCALE: 1 IN. = 100 FT.



**Apoha Aquarium Figure 4**  
**Discharge Points, Receiving State Waters Map**  
**CWB-NOI Form C, Item No. C.4.e and f**



**Apoha Aquarium  
Flow Chart  
CWB-NOI Form C, Item No. C.5**





## U.S. ENVIRONMENTAL PROTECTION AGENCY

# National Pollutant Discharge Elimination System (NPDES)

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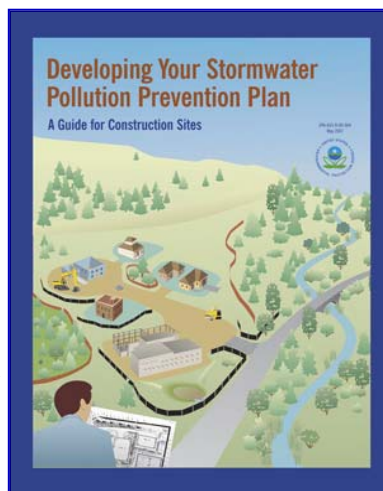
## Stormwater Pollution Prevention Plans for Construction Activities

### WHAT CAN I FIND ON THIS WEBSITE?

- [Developing Your Stormwater Pollution Prevention Plan: A Guide for Construction Sites](#)
  - [SWPPP Templates](#)
  - [Sample Inspection Form](#)
- [Example SWPPPs](#)
- [Key Resources](#)
- [Selected State BMP/Guidance Manuals](#)

[Developing Your Stormwater Pollution Prevention Plan: A Guide for Construction Sites \(PDF\)](#) (50 pp, 2.81MB) - This guidance manual is intended as a helpful reference for construction site operators who must prepare a SWPPP in order to obtain NPDES permit coverage for their stormwater discharges. It describes the SWPPP development process and provides helpful

guidance and tips for developing and implementing an effective SWPPP. In addition, the guide provides customizable SWPPP templates and a sample inspection report, in Microsoft Word format. This Guide may be used by construction site operators anywhere in the U.S. The SWPPP Template and Inspection form should be customized to meet the requirements in the applicable State Construction General Permit.



- [SWPPP Template - Authorized States \(Customizable Non-PDF Version\)](#) [WORD FORMAT] (40 pp, 570K) - SWPPP template for construction site operators. For use in the 45 states and territories that are [authorized](#)

#### Stormwater Information

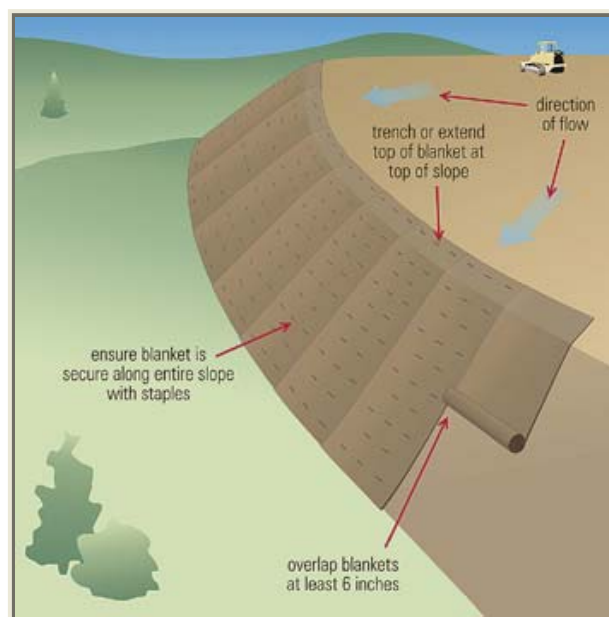
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The documents on this site are best viewed with Acrobat 8.0

to implement the NPDES Permits program. (Revised October 2, 2007)

- [SWPPP Template - Unauthorized States \(Customizable Non-PDF Version\)](#) [WORD FORMAT] (40 pp, 570K) - SWPPP template for construction site operators in unauthorized states, territories, and Indian Country (Alaska, District of Columbia, Idaho, Massachusetts, New Hampshire, New Mexico, Puerto Rico, most other territories, and Indian Country lands), where EPA is the NPDES [permitting authority](#). (Revised October 2, 2007)
- [Sample Inspection Report Template \(Customizable Non-PDF Version\)](#) [WORD FORMAT] (4 pp, 115K) - A helpful tool to aid you in completing construction site inspections, this sample inspection report is in Microsoft Word format, so you can easily modify it to suit your construction site. (Revised October 2, 2007)

### Example SWPPPs



These example SWPPPs were developed (using hypothetical sites and conditions) to serve as examples for the construction industry. They utilize the SWPPP Template (above) and follow EPA's Construction General Permit. These examples should be used for educational or training purposes only. Construction site SWPPPs must be developed following the requirements of the applicable state or EPA Construction General Permit and describe the specific conditions of the site and plans for development.

- Medium-Sized (~20-acre) Residential Subdivision
  - [Example SWPPP \(PDF\)](#) (73 pp, 1.57MB)
  - [Appendices](#)
- Small Commercial Site (< 5 acres)
  - [Example SWPPP \(PDF\)](#) (56 pp, 1.04MB)
  - [Appendices](#)

## Key Resources

- [Webcast: Construction SWPPPs from A to Z: Everything You Ever Wanted to Know and More!](#) - This EPA webcast focuses on the key elements of developing an effective SWPPP and summarizes EPA's new SWPPP Guide for construction sites. This webcast also includes a discussion of common problems found during construction site inspections.
- [Webcast: Stormwater Phase II: Developing an Effective Municipal Stormwater Management Program For Construction Sites \(Construction 101\)](#) - This EPA webcast reviews the basic elements necessary to build an effective municipal program for construction site stormwater management. It also discusses some of the basics of proper BMP implementation and how to conduct effective inspections.
- [Construction Industry Compliance Assistance Center](#) EXIT Disclaimer - Plain language explanations of environmental rules for the construction industry. Links to stormwater permits and technical manuals for all 50 states.
- [National Menu of Best Management Practices for NPDES Stormwater Phase II](#) - The Construction Section of this Menu contains dozen of fact sheets on applicable construction site BMPs. Controlling stormwater runoff pollution requires a suite of BMPs working together and this Menu will help you determine which BMPs are most suitable for your site.
- [EPA's Construction General Permit](#) - If your construction site is located in an area where EPA is the [permitting authority](#), you may obtain NPDES permit coverage under this construction general permit (CGP). This page provides information on filing a Notice of Intent (NOI) and other helpful information and resources.
- [Managing Your Environmental Responsibilities: A Planning Guide for Construction and Development \(PDF\)](#) (255 pp, 2.3MB) - Produced by EPA, this document will help you comply with a variety of environmental regulations at every stage of your construction project.
- [International Erosion Control Association](#) EXIT Disclaimer - Non-profit educational organization working to educate and connect its membership of erosion and sediment control consultants, contractors, academics, corporations, and businesspersons. The website offers information on certifications for stormwater and erosion and sediment control professionals.
- [Certified Professional in Erosion and Sediment Control](#) EXIT Disclaimer - Certification program to become a recognized specialist in soil erosion and sediment control.

## State BMP/Guidance Manuals

- [Kentucky Erosion Prevention and Sediment Control Field Guide](#) EXIT Disclaimer - Easy to read field guide describing erosion and sediment control BMP selection and installation.



- [Minnesota Stormwater Construction Inspection Guide \(PDF\)](#) [EXIT Disclaimer](#) (35 pp, 5.8MB) - Manual designed to assist municipal construction inspectors in the procedures for conducting a compliance inspection at construction sites.
- [California Stormwater Quality Association's Construction Handbook](#) [EXIT Disclaimer](#) - Provides general guidance for selecting and implementing BMPs, and developing and implementing SWPPPs. While not specific to climate or geographic locations within California, it gives the framework for an informed selection of BMPs based on site conditions.
- [Delaware Erosion and Sediment Control Handbook \(PDF\)](#) [EXIT Disclaimer](#) (689 pp, 40MB) - This extensive handbook provides thorough explanations of erosion and sediment control principles, as well as standards and specifications for construction BMPs. Included are design guides and application guides for a few practices.
- [Western Washington Stormwater Management Manual – Volume II – Construction Stormwater Pollution Prevention](#) [EXIT Disclaimer](#) - Advocates various site design principles, construction techniques, source controls, flow control facilities and treatment facilities. Users include land developers, development engineers, businesses, and local government. Anyone needing guidance on sediment and erosion control at construction sites in Western Washington or similar wet climates will find it useful.
- [Eastern Washington Stormwater Management Manual](#) [EXIT Disclaimer](#) - Guidance document addressing stormwater design and management in more arid climates.

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Last updated on November 13, 2008 1:24 PM

URL:<http://cfpub.epa.gov/npdes/stormwater/swppp.cfm>

## Appendix A: SWPPP Template – Authorized States

### Instructions

To help you develop the narrative section of your construction site SWPPP, the U.S. Environmental Protection Agency (EPA) has created this electronic SWPPP template. The template is designed to help guide you through the SWPPP development process and help ensure that your SWPPP addresses all the necessary elements stated in your construction general permit. You should use this template with EPA's guidance on *Developing Your Stormwater Pollution Prevention Plan*. Both are available on EPA's website at [www.epa.gov/npdes/swpppguide](http://www.epa.gov/npdes/swpppguide)

This template covers the SWPPP elements that most state construction general permits require, however, **you are strongly encouraged to customize this template. There are two major reasons to customize this template:**

- **To reflect the terms and conditions of your construction general permit; and**
- **To reflect the conditions at your site**

Some states might have their own SWPPP template. If so, use the state-suggested format. In such cases, this document and its template might provide useful background information.

#### *Using the SWPPP Template*

Each section of this template includes “instructions” and space for project information. You should read the instructions for each section before you complete that section. This template was developed in Word so that you can easily add tables and additional text. Some sections may require only a brief description while others may require several pages of explanation.

#### *Tips for completing the SWPPP template*

- If there is more than one construction operator for your project, consider coordinating development of your SWPPP with the other operators.
- Multiple operators may share the same SWPPP, but make sure that responsibilities are clearly described.
- Modify this SWPPP template so that it addresses the requirements in your construction general permit **and** meets the needs of your project. Consider adding permit citations in the SWPPP when you address a specific permit requirement.

# Stormwater Pollution Prevention Plan

## for:

Insert Project Name  
Insert Project Site Location/Address  
Insert City, State, Zip Code  
Insert Project Site Telephone Number (if applicable)

## Operator(s):

Insert Company or Organization Name  
Insert Name  
Insert Address  
Insert City, State, Zip Code  
Insert Telephone Number  
Insert Fax/Email

## SWPPP Contact(s):

Insert Company or Organization Name  
Insert Name  
Insert Address  
Insert City, State, Zip Code  
Insert Telephone Number  
Insert Fax/Email

## SWPPP Preparation Date:

\_\_\_/\_\_\_/\_\_\_\_

*Estimated Project Dates:*

**Project Start Date:** \_\_\_/\_\_\_/\_\_\_\_

**Project Completion Date:** \_\_\_/\_\_\_/\_\_\_\_

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## SECTION 1: SITE EVALUATION, ASSESSMENT, AND PLANNING

### 1.1 Project/Site Information

**Instructions:**

- In this section, you can gather some basic site information that will be helpful to you later when you file for permit coverage.
- For more information, see *Developing Your Stormwater Pollution Prevention Plan: A SWPPP Guide for Construction Sites* (also known as the *SWPPP Guide*), Chapter 2
- Detailed information on determining your site's latitude and longitude can be found at [www.epa.gov/npdes/stormwater/latlong](http://www.epa.gov/npdes/stormwater/latlong)

Project/Site Name: \_\_\_\_\_

Project Street/Location: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ ZIP Code: \_\_\_\_\_

County or Similar Subdivision: \_\_\_\_\_

Latitude/Longitude (Use **one** of three possible formats, and specify method)

Latitude:

1. \_\_ ° \_\_ ' \_\_ " N (degrees, minutes, seconds)

2. \_\_ ° \_\_ . \_\_ ' N (degrees, minutes, decimal)

3. \_\_ . \_\_ \_\_ ° N (decimal)

Longitude:

1. \_\_ ° \_\_ ' \_\_ " W (degrees, minutes, seconds)

2. \_\_ ° \_\_ . \_\_ ' W (degrees, minutes, decimal)

3. \_\_ . \_\_ \_\_ ° W (decimal)

Method for determining latitude/longitude:

☐ USGS topographic map (specify scale: \_\_\_\_\_)

☐ EPA Web site ☐ GPS

☐ Other (please specify): \_\_\_\_\_

Is the project located in Indian country? ☐ Yes ☐ No

If yes, name of Reservation, or if not part of a Reservation, indicate "not applicable." \_\_\_\_\_

Is this project considered a federal facility? ☐ Yes ☐ No

NPDES project or permit tracking number\*: \_\_\_\_\_

\*(This is the unique identifying number assigned to your project by your permitting authority after you have applied for coverage under the appropriate National Pollutant Discharge Elimination System (NPDES) construction general permit.)

## 1.2 Contact Information/Responsible Parties

### Instructions:

- List the operator(s), project managers, stormwater contact(s), and person or organization that prepared the SWPPP. Indicate respective responsibilities, where appropriate.
- Also, list subcontractors expected to work on-site. Notify subcontractors of stormwater requirements applicable to their work.
- See *SWPPP Guide*, Chapter 2.B.

### Operator(s):

Insert Company or Organization Name:

Insert Name:

Insert Address:

Insert City, State, Zip Code:

Insert Telephone Number:

Insert Fax/Email:

Insert area of control (if more than one operator at site):

Repeat as necessary

### Project Manager(s) or Site Supervisor(s):

Insert Company or Organization Name:

Insert Name:

Insert Address:

Insert City, State, Zip Code:

Insert Telephone Number:

Insert Fax/Email:

Insert area of control (if more than one operator at site) :

Repeat as necessary

### SWPPP Contact(s):

Insert Company or Organization Name:

Insert Name:

Insert Address:

Insert City, State, Zip Code:

Insert Telephone Number:

Insert Fax/Email:

Insert area of control (if more than one operator at site) :

Repeat as necessary

**This SWPPP was Prepared by:**

Insert Company or Organization Name:

Insert Name:

Insert Address:

Insert City, State, Zip Code:

Insert Telephone Number:

Insert Fax/Email:

**Subcontractor(s):**

Insert Company or Organization Name:

Insert Name:

Insert Address:

Insert City, State, Zip Code:

Insert Telephone Number:

Insert Fax/Email:

Repeat as necessary

**Emergency 24-Hour Contact:**

Insert Company or Organization Name:

Insert Name:

Insert Telephone Number:

### **1.3 Nature and Sequence of Construction Activity**

**Instructions:**

- Briefly describe the nature of the construction activity and approximate time frames (one or more paragraphs, depending on the nature and complexity of the project).
- For more information, see *SWPPP Guide*, Chapter 3.A.

Describe the general scope of the work for the project, major phases of construction, etc:

INSERT TEXT HERE

What is the function of the construction activity?

☐ Residential    ☐ Commercial    ☐ Industrial    ☐ Road Construction    ☐ Linear Utility

☐ Other (please specify):

Estimated Project Start Date:                      \_\_\_\_/\_\_\_\_/\_\_\_\_

Estimated Project Completion Date:                      \_\_\_\_/\_\_\_\_/\_\_\_\_



## 1.4 Soils, Slopes, Vegetation, and Current Drainage Patterns

### Instructions:

- Describe the existing soil conditions at the construction site including soil types, slopes and slope lengths, drainage patterns, and other topographic features that might affect erosion and sediment control.
- Also, note any historic site contamination evident from existing site features and known past usage of the site.
- This information should also be included on your site maps (See *SWPPP Guide*, Chapter 3.C.).
- For more information, see *SWPPP Guide*, Chapter 3.A.

Soil type(s):

Slopes (describe current slopes and note any changes due to grading or fill activities):

Drainage Patterns (describe current drainage patterns and note any changes due to grading or fill activities):

Vegetation:

Other:

## 1.5 Construction Site Estimates

### Instructions:

- Estimate the area to be disturbed by excavation, grading, or other construction activities, including dedicated off-site borrow and fill areas.
- Calculate the percentage of impervious surface area before and after construction
- Calculate the runoff coefficients before and after construction.
- For more information, see *SWPPP Guide*, Chapter 3.A and Appendix C.

The following are estimates of the construction site.

Total project area:	acres
Construction site area to be disturbed:	acres
Percentage impervious area before construction:	%
Runoff coefficient before construction:	
Percentage impervious area after construction:	%
Runoff coefficient after construction	

## 1.6 Receiving Waters

### Instructions:

- List the waterbody(s) that would receive stormwater from your site, including streams, rivers, lakes, coastal waters, and wetlands. Describe each as clearly as possible, such as *Mill Creek, a tributary to the Potomac River*, and so on.
- Indicate the location of all waters, including wetlands, on the site map.
- Note any stream crossings, if applicable.
- List the storm sewer system or drainage system that stormwater from your site could discharge to and the waterbody(s) that it ultimately discharges to.
- If any of the waterbodies above are impaired and/or subject to Total Maximum Daily Loads (TMDLs), please list the pollutants causing the impairment and any specific requirements in the TMDL(s) that are applicable to construction sites. Your SWPPP should specifically include measures to prevent the discharge of these pollutants.
- For more information, see *SWPPP Guide*, Chapter 3.A and 3.B.
- Also, for more information and a list of TMDL contacts and links by state, visit [www.epa.gov/npdes/stormwater/tmdl](http://www.epa.gov/npdes/stormwater/tmdl).

Description of receiving waters:

Description of storm sewer systems:

Description of impaired waters or waters subject to TMDLs:

Other:

## 1.7 Site Features and Sensitive Areas to be Protected

### Instructions:

- Describe unique site features including streams, stream buffers, wetlands, specimen trees, natural vegetation, steep slopes, or highly erodible soils that are to be preserved.
- Describe measures to protect these features.
- Include these features and areas on your site maps.
- For more information, see *SWPPP Guide*, Chapter 3.A and 3.B.

Description of unique features that are to be preserved:

Describe measures to protect these features:

## 1.8 Potential Sources of Pollution

**Instructions:**

- Identify and list all potential sources of sediment, which may reasonably be expected to affect the quality of stormwater discharges from the construction site.
- Identify and list all potential sources of pollution, other than sediment, which may reasonably be expected to affect the quality of stormwater discharges from the construction site.
- For more information, see *SWPPP Guide*, Chapter 3.A.

Potential sources of sediment to stormwater runoff:

INSERT TEXT OR TABLE HERE

Potential pollutants and sources, other than sediment, to stormwater runoff:

INSERT TEXT OR USE TABLE BELOW

Trade Name Material	Stormwater Pollutants	Location

## 1.9 Endangered Species Certification

### Instructions:

- Before beginning construction, determine whether endangered or threatened species or their critical habitats are on or near your site.
- Adapt this section as needed for state or tribal endangered species requirements and, if applicable, document any measures deemed necessary to protect endangered or threatened species or their critical habitats.
- For more information on this topic, see *SWPPP Guide*, Chapter 3.B.
- Additional information on Endangered Species Act (ESA) provisions is at [www.epa.gov/npdes/stormwater/esa](http://www.epa.gov/npdes/stormwater/esa)

Are endangered or threatened species and critical habitats on or near the project area?

☐ Yes ☐ No

Describe how this determination was made:

INSERT TEXT HERE

If yes, describe the species and/or critical habitat:

INSERT TEXT HERE

If yes, describe or refer to documentation that determines the likelihood of an impact on identified species and/or habitat and the steps taken to address that impact. (Note, if species are on or near your project site, EPA strongly recommends that the site operator work closely with the appropriate field office of the U.S. Fish and Wildlife Service or National Marine Fisheries Service. For concerns related to state or tribal listing of species, please contact a state or tribal official.)

INSERT TEXT HERE

## 1.10 Historic Preservation

### Instructions:

- Before you begin construction, you should review federal and any applicable state, local, or tribal historic preservation laws and determine if there are historic sites on or near your project. If so, you might need to make adjustments to your construction plans or to your stormwater controls to ensure that these historic sites are not damaged.
- For more information, see *SWPPP Guide*, Chapter 3.B or contact your state or tribal historic preservation officer.

Are there any historic sites on or near the construction site?

☐ Yes ☐ No

Describe how this determination was made:

INSERT TEXT HERE

If yes, describe or refer to documentation that determines the likelihood of an impact on this historic site and the steps taken to address that impact.

INSERT TEXT HERE

### **1.11 Applicable Federal, Tribal, State or Local Programs**

**Instructions:**

- Note other applicable federal, tribal, state or local soil and erosion control and stormwater management requirements that apply to your construction site.

INSERT TEXT HERE

### **1.12 Maps**

**Instructions:**

- Attach site maps. For most projects, a series of site maps is recommended. The first should show the undeveloped site and its current features. An additional map or maps should be created to show the developed site or for more complicated sites show the major phases of development.

**These maps should include the following:**

- Direction(s) of stormwater flow and approximate slopes before and after major grading activities;
- Areas and timing of soil disturbance;
- Areas that will not be disturbed;
- Natural features to be preserved;
- Locations of major structural and non-structural BMPs identified in the SWPPP;
- Locations and timing of stabilization measures;
- Locations of off-site material, waste, borrow, or equipment storage areas;
- Locations of all waters of the United States, including wetlands;
- Locations where stormwater discharges to a surface water;
- Locations of storm drain inlets; and
- Areas where final stabilization has been accomplished.
- For more information, see *SWPPP Guide*, Chapter 3.C.

Include the site maps with the SWPPP.

## SECTION 2: EROSION AND SEDIMENT CONTROL BMPs

### Instructions:

- Describe the BMPs that will be implemented to control pollutants in stormwater discharges. For each major activity identified, do the following
  - ✓ Clearly describe appropriate control measures.
  - ✓ Describe the general sequence during the construction process in which the measures will be implemented.
  - ✓ Describe the maintenance and inspection procedures that will be used for that specific BMP.
  - ✓ Include protocols, thresholds, and schedules for cleaning, repairing, or replacing damaged or failing BMPs.
  - ✓ Identify staff responsible for maintaining BMPs.
  - ✓ (If your SWPPP is shared by multiple operators, indicate the operator responsible for each BMP.)
- Categorize each BMP under one of the following 10 areas of BMP activity as described below:
  - 2.1 Minimize disturbed area and protect natural features and soil*
  - 2.2 Phase Construction Activity*
  - 2.3 Control Stormwater flowing onto and through the project*
  - 2.4 Stabilize Soils*
  - 2.5 Protect Slopes*
  - 2.6 Protect Storm Drain Inlets*
  - 2.7 Establish Perimeter Controls and Sediment Barriers*
  - 2.8 Retain Sediment On-Site and Control Dewatering Practices*
  - 2.9 Establish Stabilized Construction Exits*
  - 2.10 Any Additional BMPs*
- Note the location of each BMP on your site map(s).
- For any structural BMPs, you should provide design specifications and details and refer to them. Attach them as appendices to the SWPPP or within the text of the SWPPP.
- For more information, see *SWPPP Guide*, Chapter 4.
- Consult your state's design manual or one of those listed in Appendix D of the *SWPPP Guide*.
- For more information or ideas on BMPs, see EPA's National Menu of BMPs  
<http://www.epa.gov/npdes/stormwater/menuofbmps>

## **2.1 Minimize Disturbed Area and Protect Natural Features and Soil**

**Instructions:**

- Describe the areas that will be disturbed with each phase of construction and the methods (e.g., signs, fences) that you will use to protect those areas that should not be disturbed. Describe natural features identified earlier and how each will be protected during construction activity. Also describe how topsoil will be preserved. Include these areas and associated BMPs on your site map(s) also. (For more information, see *SWPPP Guide*, Chapter 4, ESC Principle 1.)
- Also, see EPA's *Preserving Natural Vegetation BMP Fact Sheet* at [www.epa.gov/npdes/stormwater/menuofbmps/construction/preserve\\_veg](http://www.epa.gov/npdes/stormwater/menuofbmps/construction/preserve_veg)

INSERT TEXT or TABLE HERE, include inspection and maintenance schedules as appropriate and staff responsible for maintenance

## **2.2 Phase Construction Activity**

**Instructions:**

- Describe the intended construction sequencing and timing of major activities, including any opportunities for phasing grading and stabilization activities to minimize the overall amount of disturbed soil that will be subject to potential erosion at one time. Also, describe opportunities for timing grading and stabilization so that all or a majority of the soil disturbance occurs during a time of year with less erosion potential (i.e., during the dry or less windy season). (For more information, see *SWPPP Guide*, Chapter 4, ESC Principle 2.) It might be useful to develop a separate, detailed site map for each phase of construction.
- Also, see EPA's *Construction Sequencing BMP Fact Sheet* at [http://www.epa.gov/npdes/stormwater/menuofbmps/construction/cons\\_seq](http://www.epa.gov/npdes/stormwater/menuofbmps/construction/cons_seq)

- Phase I
  - Describe phase
  - Duration of phase (start date, end date)
  - List BMPs associated with this phase
  - Describe stabilization methods for this phase (describe any temporary stabilization methods that will be used before final stabilization)
- Phase II
  - Describe phase
  - Duration of phase (start date, end date)
  - List BMPs associated with this phase
  - Describe stabilization methods for this phase (describe any temporary stabilization methods that will be used before final stabilization)

Repeat as needed

## 2.3 Control Stormwater Flowing onto and through the Project

**Instructions:**

- Describe structural practices (e.g., diversions, berms, ditches, storage basins) including design specifications and details used to divert flows from exposed soils, retain or detain flows, or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. (For more information, see *SWPPP Guide*, Chapter 4, ESC Principle 3.)

**BMP Description:**

<b>Installation Schedule:</b>	
<b>Maintenance and Inspection:</b>	
<b>Responsible Staff:</b>	

**BMP Description:**

<b>Installation Schedule:</b>	
<b>Maintenance and Inspection:</b>	
<b>Responsible Staff:</b>	

Repeat as needed

## 2.4 Stabilize Soils

**Instructions:**

- Describe controls (e.g., interim seeding with native vegetation, hydroseeding) to stabilize exposed soils where construction activities have temporarily or permanently ceased. Also describe measures to control dust generation. Avoid using impervious surfaces for stabilization whenever possible. (For more information, see *SWPPP Guide*, Chapter 4, ESC Principle 4.)
- Also, see EPA's *Seeding BMP Fact Sheet* at [www.epa.gov/npdes/stormwater/menuofbmps/construction/seeding](http://www.epa.gov/npdes/stormwater/menuofbmps/construction/seeding)

**BMP Description:**

<input type="checkbox"/> <b>Permanent</b>	<input type="checkbox"/> <b>Temporary</b>
<b>Installation Schedule:</b>	
<b>Maintenance and Inspection:</b>	
<b>Responsible Staff:</b>	



<b>BMP Description:</b>	
<input type="checkbox"/> <b>Permanent</b>	<input type="checkbox"/> <b>Temporary</b>
<b>Installation Schedule:</b>	
<b>Maintenance and Inspection:</b>	
<b>Responsible Staff:</b>	

Repeat as needed

## 2.5 Protect Slopes

**Instructions:**

- Describe controls (e.g., erosion control blankets, tackifiers) including design specifications and details that will be implemented to protect all slopes. (For more information, see *SWPPP Guide*, Chapter 4, ESC Principle 5.)
- Also, see EPA's *Geotextiles BMP Fact Sheet* at [www.epa.gov/npdes/stormwater/menuofbmps/construction/geotextiles](http://www.epa.gov/npdes/stormwater/menuofbmps/construction/geotextiles)

<b>BMP Description:</b>	
<b>Installation Schedule:</b>	
<b>Maintenance and Inspection:</b>	
<b>Responsible Staff:</b>	

<b>BMP Description:</b>	
<b>Installation Schedule:</b>	
<b>Maintenance and Inspection:</b>	
<b>Responsible Staff:</b>	

Repeat as needed

## 2.6 Protect Storm Drain Inlets

**Instructions:**

- Describe controls (e.g., inserts, rock-filled bags, or block and gravel) including design specifications and details that will be implemented to protect all inlets receiving stormwater from the project during the entire project. (For more information, see *SWPPP Guide*, Chapter 4, ESC Principle 6.)
- Also, see EPA's *Storm Drain Inlet Protection BMP Fact Sheet* at [www.epa.gov/npdes/stormwater/menuofbmps/construction/storm\\_drain](http://www.epa.gov/npdes/stormwater/menuofbmps/construction/storm_drain)

**BMP Description:**

<b>Installation Schedule:</b>	
<b>Maintenance and Inspection:</b>	
<b>Responsible Staff:</b>	

**BMP Description:**

<b>Installation Schedule:</b>	
<b>Maintenance and Inspection:</b>	
<b>Responsible Staff:</b>	

Repeat as needed

## 2.7 Establish Perimeter Controls and Sediment Barriers

**Instructions:**

- Describe structural practices (e.g., silt fences or fiber rolls) including design specifications and details to filter and trap sediment before it leaves the construction site. (For more information, see *SWPPP Guide*, Chapter 4, ESC Principle 7.)
- Also see, EPA's *Silt Fence BMP Fact Sheet* at [www.epa.gov/npdes/stormwater/menuofbmps/construction/silt\\_fences](http://www.epa.gov/npdes/stormwater/menuofbmps/construction/silt_fences), or *Fiber Rolls BMP Fact Sheet* at [www.epa.gov/npdes/stormwater/menuofbmps/construction/fiber\\_rolls](http://www.epa.gov/npdes/stormwater/menuofbmps/construction/fiber_rolls)

**BMP Description:**

<b>Installation Schedule:</b>	
<b>Maintenance and Inspection:</b>	
<b>Responsible Staff:</b>	

<b>BMP Description:</b>	
<b>Installation Schedule:</b>	
<b>Maintenance and Inspection:</b>	
<b>Responsible Staff:</b>	

Repeat as needed

## 2.8 Retain Sediment On-Site

Instructions:

- Describe sediment control practices (e.g., sediment trap or sediment basin), including design specifications and details (volume, dimensions, outlet structure) that will be implemented at the construction site to retain sediments on-site. (For more information, see *SWPPP Guide*, Chapter 4, ESC Principle 8.)
- Also, see EPA's *Sediment Basin BMP Fact Sheet* at [www.epa.gov/npdes/stormwater/menuofbmps/construction/sediment\\_basins](http://www.epa.gov/npdes/stormwater/menuofbmps/construction/sediment_basins)

<b>BMP Description:</b>	
<b>Installation Schedule:</b>	
<b>Maintenance and Inspection:</b>	
<b>Responsible Staff:</b>	

<b>BMP Description:</b>	
<b>Installation Schedule:</b>	
<b>Maintenance and Inspection:</b>	
<b>Responsible Staff:</b>	

Repeat as needed

## 2.9 Establish Stabilized Construction Exits

**Instructions:**

- Describe location(s) of vehicle entrance(s) and exit(s), procedures to remove accumulated sediment off-site (e.g., vehicle tracking), and stabilization practices (e.g., stone pads or wash racks or both) to minimize off-site vehicle tracking of sediments and discharges to stormwater. (For more information, see *SWPPP Guide*, Chapter 4, ESC Principle 9.)
- Also, see EPA's *Construction Entrances BMP Fact Sheet* at [www.epa.gov/npdes/stormwater/menuofbmps/construction/cons\\_entrance](http://www.epa.gov/npdes/stormwater/menuofbmps/construction/cons_entrance)

**BMP Description:**

<b>Installation Schedule:</b>	
<b>Maintenance and Inspection:</b>	
<b>Responsible Staff:</b>	

**BMP Description:**

<b>Installation Schedule:</b>	
<b>Maintenance and Inspection:</b>	
<b>Responsible Staff:</b>	

Repeat as needed

## 2.10 Additional BMPs

Instructions:

- Describe additional BMPs that do not fit into the above categories.

***BMP Description:***

<b><i>Installation Schedule:</i></b>	
<b><i>Maintenance and Inspection:</i></b>	
<b><i>Responsible Staff:</i></b>	

***BMP Description:***

<b><i>Installation Schedule:</i></b>	
<b><i>Maintenance and Inspection:</i></b>	
<b><i>Responsible Staff:</i></b>	

Repeat as needed

## SECTION 3: GOOD HOUSEKEEPING BMPS

**Instructions:**

- Describe the key good housekeeping and pollution prevention (P2) BMPs that will be implemented to control pollutants in stormwater.
- Categorize each good housekeeping and pollution prevention (P2) BMP under one of the following seven categories:
  - 3.1 Material Handling and Waste Management*
  - 3.2 Establish Proper Building Material Staging Areas*
  - 3.3 Designate Washout Areas*
  - 3.4 Establish Proper Equipment/Vehicle Fueling and Maintenance Practices*
  - 3.5 Allowable Non-Stormwater Discharges and Control Equipment/Vehicle Washing*
  - 3.6 Spill Prevention and Control Plan*
  - 3.7 Any Additional BMPs*
- For more information, see *SWPPP Guide*, Chapter 5.
- Consult your state's design manual or resources in Appendix D of the *SWPPP Guide*.
- For more information or ideas on BMPs, see EPA's National Menu of BMPs  
<http://www.epa.gov/npdes/stormwater/menuofbmps>

### **3.1 Material Handling and Waste Management**

**Instructions:**

- Describe measures (e.g., trash disposal, sanitary wastes, recycling, and proper material handling) to prevent the discharge of solid materials to receiving waters, except as authorized by a permit issued under section 404 of the CWA (For more information, see *SWPPP Guide*, Chapter 5, P2 Principle 1.)
- Also, see EPA's *General Construction Site Waste Management BMP Fact Sheet* at  
[www.epa.gov/npdes/stormwater/menuofbmps/construction/cons\\_wasteman](http://www.epa.gov/npdes/stormwater/menuofbmps/construction/cons_wasteman)

**BMP Description:**

<b>Installation Schedule:</b>	
<b>Maintenance and Inspection:</b>	
<b>Responsible Staff:</b>	

---

***BMP Description:***

<b><i>Installation Schedule:</i></b>	
<b><i>Maintenance and Inspection:</i></b>	
<b><i>Responsible Staff:</i></b>	

Repeat as needed

### **3.2 Establish Proper Building Material Staging Areas**

Instructions:

- Describe construction materials expected to be stored on-site and procedures for storage of materials to minimize exposure of the materials to stormwater. (For more information, see *SWPPP Guide*, Chapter 5, P2 Principle 2.)

---

***BMP Description:***

<b><i>Installation Schedule:</i></b>	
<b><i>Maintenance and Inspection:</i></b>	
<b><i>Responsible Staff:</i></b>	

---

***BMP Description:***

<b><i>Installation Schedule:</i></b>	
<b><i>Maintenance and Inspection:</i></b>	
<b><i>Responsible Staff:</i></b>	

Repeat as needed

### **3.3 Designate Washout Areas**

Instructions:

- Describe location(s) and controls to eliminate the potential for discharges from washout areas for concrete mixers, paint, stucco, and so on. (For more information, see *SWPPP Guide*, Chapter 5, P2 Principle 3.)
- Also, see EPA's *Concrete Washout BMP Fact Sheet* at [www.epa.gov/npdes/stormwater/menuofbmps/construction/concrete wash](http://www.epa.gov/npdes/stormwater/menuofbmps/construction/concrete_wash)

<b>BMP Description:</b>	
<b>Installation Schedule:</b>	
<b>Maintenance and Inspection:</b>	
<b>Responsible Staff:</b>	

<b>BMP Description:</b>	
<b>Installation Schedule:</b>	
<b>Maintenance and Inspection:</b>	
<b>Responsible Staff:</b>	

Repeat as needed

### 3.4 Establish Proper Equipment/Vehicle Fueling and Maintenance Practices

**Instructions:**

- Describe equipment/vehicle fueling and maintenance practices that will be implemented to control pollutants to stormwater (e.g., secondary containment, drip pans, and spill kits) (For more information, see *SWPPP Guide*, Chapter 5, P2 Principle 4.)
- Also, see EPA's *Vehicle Maintenance and Washing Areas BMP Fact Sheet* at [www.epa.gov/npdes/stormwater/menuofbmps/construction/vehicile\\_maintain](http://www.epa.gov/npdes/stormwater/menuofbmps/construction/vehicile_maintain)

<b>BMP Description:</b>	
<b>Installation Schedule:</b>	
<b>Maintenance and Inspection:</b>	
<b>Responsible Staff:</b>	

<b>BMP Description:</b>	
<b>Installation Schedule:</b>	
<b>Maintenance and Inspection:</b>	
<b>Responsible Staff:</b>	

Repeat as needed



### 3.5 Control Equipment/Vehicle Washing

**Instructions:**

- Describe equipment/vehicle washing practices that will be implemented to control pollutants to stormwater. (For more information, see *SWPPP Guide*, Chapter 5, P2 Principle 5.)
- Also, see EPA's *Vehicle Maintenance and Washing Areas BMP Fact Sheet* at [www.epa.gov/npdes/stormwater/menuofbmps/construction/vehicle\\_maintain](http://www.epa.gov/npdes/stormwater/menuofbmps/construction/vehicle_maintain)

**BMP Description:**

<b>Installation Schedule:</b>	
<b>Maintenance and Inspection:</b>	
<b>Responsible Staff:</b>	

**BMP Description:**

<b>Installation Schedule:</b>	
<b>Maintenance and Inspection:</b>	
<b>Responsible Staff:</b>	

Repeat as needed

### 3.6 Spill Prevention and Control Plan

**Instructions:**

- Describe the spill prevention and control plan to include ways to reduce the chance of spills, stop the source of spills, contain and clean up spills, dispose of materials contaminated by spills, and train personnel responsible for spill prevention and control. (For more information, see *SWPPP Guide*, Chapter 5, P2 Principle 6.)
- Also, see EPA's *Spill Prevention and Control Plan BMP Fact sheet* at [www.epa.gov/npdes/stormwater/menuofbmps/construction/spill\\_control](http://www.epa.gov/npdes/stormwater/menuofbmps/construction/spill_control)

INSERT TEXT HERE or REFERENCE ATTACHMENT

### 3.7 Any Additional BMPs

**Instructions:**

- Describe any additional BMPs that do not fit into the above categories. Indicate the problem they are intended to address.

***BMP Description:***

<b><i>Installation Schedule:</i></b>	
<b><i>Maintenance and Inspection:</i></b>	
<b><i>Responsible Staff:</i></b>	

***BMP Description:***

<b><i>Installation Schedule:</i></b>	
<b><i>Maintenance and Inspection:</i></b>	
<b><i>Responsible Staff:</i></b>	

Repeat as needed

### 3.8 Allowable Non-Stormwater Discharge Management

**Instructions:**

- Identify all allowable sources of non-stormwater discharges that are not identified. The allowable non-stormwater discharges identified might include the following (see your permit for an exact list):
  - ✓ Waters used to wash vehicles where detergents are not used
  - ✓ Water used to control dust
  - ✓ Potable water including uncontaminated water line flushings
  - ✓ Routine external building wash down that does not use detergents
  - ✓ Pavement wash waters where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed) and where detergents are not used
  - ✓ Uncontaminated air conditioning or compressor condensate
  - ✓ Uncontaminated ground water or spring water
  - ✓ Foundation or footing drains where flows are not contaminated with process materials such as solvents
  - ✓ Uncontaminated excavation dewatering
  - ✓ Landscape irrigation
- Identify measures used to eliminate or reduce these discharges and the BMPs used to prevent them from becoming contaminated.
- For more information, see *SWPPP Guide*, Chapter 3.A.

These discharges are not covered under the construction stormwater NGPC. Contractors should identify measures to eliminate these discharges.

List allowable non-stormwater discharges and the measures used to eliminate or reduce them and to prevent them from becoming contaminated:

**BMP Description:**

<b>Installation Schedule:</b>	
<b>Maintenance and Inspection:</b>	
<b>Responsible Staff:</b>	

**BMP Description:**

<b>Installation Schedule:</b>	
<b>Maintenance and Inspection:</b>	
<b>Responsible Staff:</b>	

Repeat as needed

## SECTION 4: SELECTING POST-CONSTRUCTION BMPs

### Instructions:

- Describe all post-construction stormwater management measures that will be installed during the construction process to control pollutants in stormwater discharges after construction operations have been completed. Examples of post-construction BMPs include the following:
  - ✓ Biofilters
  - ✓ Detention/retention devices
  - ✓ Earth dikes, drainage swales, and lined ditches
  - ✓ Infiltration basins
  - ✓ Porous pavement
  - ✓ Other proprietary permanent structural BMPs
  - ✓ Outlet protection/velocity dissipation devices
  - ✓ Slope protection
  - ✓ Vegetated strips and/or swales
- Identify any applicable federal, state, local, or tribal requirements for design or installation.
- Describe how low-impact designs or smart growth considerations have been incorporated into the design.
- For any structural BMPs, you should have design specifications and details and refer to them. Attach them as appendices to the SWPPP or within the text of the SWPPP.
- For more information on this topic, see your state's stormwater manual.
- You might also want to consult one of the references listed in Appendix D of the *SWPPP Guide*.
- Visit the post-construction section of EPA's Menu of BMPs at: [www.epa.gov/npes/menuofbmps](http://www.epa.gov/npes/menuofbmps)

### ***BMP Description:***

<b><i>Installation Schedule:</i></b>	
<b><i>Maintenance and Inspection:</i></b>	
<b><i>Responsible Staff:</i></b>	

### ***BMP Description:***

<b><i>Installation Schedule:</i></b>	
<b><i>Maintenance and Inspection:</i></b>	
<b><i>Responsible Staff:</i></b>	

Repeat as needed

## SECTION 5: INSPECTIONS

### 5.1 *Inspections*

**Instructions:**

- Identify the individual(s) responsible for conducting inspections and describe their qualifications. Reference or attach the inspection form that will be used.
- Describe the frequency that inspections will occur at your site including any correlations to storm frequency and intensity.
- Note that inspection details for particular BMPs should be included in Sections 2 and 3.
- You should also document the repairs and maintenance that you undertake as a result of your inspections. These actions can be documented in the corrective action log described in Part 5.3 below.
- For more on this topic, see *SWPPP Guide*, Chapters 6 and 8.
- Also, see suggested inspection form in Appendix B of the *SWPPP Guide*.

**1. *Inspection Personnel:*** Identify the person(s) who will be responsible for conducting inspections and describe their qualifications:

**2. *Inspection Schedule and Procedures:***

Describe the inspection schedules and procedures you have developed for your site (include frequency of inspections for each BMP or group of BMPs, indicate when you will inspect, e.g., before/during/and after rain events, spot inspections):

Describe the general procedures for correcting problems when they are identified. Include responsible staff and time frames for making corrections:

Attach a copy of the inspection report you will use for your site.

[REFERENCE ATTACHMENT](#)

## 5.2 Delegation of Authority

**Instructions:**

- Identify the individual(s) or specifically describe the position where the construction site operator has delegated authority for the purposes of signing inspection reports, certifications, or other information.
- Attach the delegation of authority form that will be used.
- For more on this topic, see *SWPPP Guide*, Chapter 7.

**Duly Authorized Representative(s) or Position(s):**

Insert Company or Organization Name:

Insert Name:

Insert Position:

Insert Address:

Insert City, State, Zip Code:

Insert Telephone Number:

Insert Fax/Email:

CWB NOI General Form,  
Item No. 6 and 7

Attach a copy of the signed delegation of authority form in ~~Appendix K~~.

## 5.3 Corrective Action Log

**Instructions:**

- Create here, or as an attachment, a corrective action log. This log should describe repair, replacement, and maintenance of BMPs undertaken as a result of the inspections and maintenance procedures described above. Actions related to the findings of inspections should reference the specific inspection report.
- This log should describe actions taken, date completed, and note the person that completed the work.

Corrective Action Log:

INSERT LOG HERE or REFERENCE ATTACHMENT

## SECTION 6: RECORDKEEPING AND TRAINING

### 6.1 *Recordkeeping*

**Instructions:**

- The following is a list of records you should keep at your project site available for inspectors to review:
- Dates of grading, construction activity, and stabilization (which is covered in Sections 2 and 3)
- A copy of the construction general permit (attach)
- The signed and certified NOI form or permit application form (attach)
- A copy of the letter from EPA or the state notifying you of their receipt of your complete NOI/application (attach)
- Inspection reports (attach)
- Records relating to endangered species and historic preservation (attach)
- Check your permit for additional details
- For more on this subject, see *SWPPP Guide*, Chapter 6.C.

Records will be retained for a minimum period of at least 3 years after the permit is terminated.

Date(s) when major grading activities occur:

INSERT LOG HERE or REFERENCE ATTACHMENT

Date(s) when construction activities temporarily or permanently cease on a portion of the site:

INSERT LOG HERE or REFERENCE ATTACHMENT

Date(s) when an area is either temporarily or permanently stabilized:

INSERT LOG HERE or REFERENCE ATTACHMENT

### 6.2 *Log of Changes to the SWPPP*

**Instructions:**

- Create a log here, or as an attachment, of changes and updates to the SWPPP. You should include additions of new BMPs, replacement of failed BMPs, significant changes in the activities or their timing on the project, changes in personnel, changes in inspection and maintenance procedures, updates to site maps, and so on.

Log of changes and updates to the SWPPP

INSERT LOG HERE or REFERENCE ATTACHMENT

## 6.3 Training

### Instructions:

- Training your staff and subcontractors is an effective BMP. As with the other steps you take to prevent stormwater problems at your site, you should document the training that you conduct for your staff, for those with specific stormwater responsibilities (e.g. installing, inspecting, and maintaining BMPs), and for subcontractors.
- Include dates, number of attendees, subjects covered, and length of training.
- For more on this subject, see *SWPPP Guide*, Chapter 8.

Individual(s) Responsible for Training:

INSERT TEXT or TABLE HERE

Describe Training Conducted:

- General stormwater and BMP awareness training for staff and subcontractors:
- Detailed training for staff and subcontractors with specific stormwater responsibilities:



## SECTION 7: FINAL STABILIZATION

**Instructions:**

- Describe procedures for final stabilization. If you complete major construction activities on part of your site, you can document your final stabilization efforts for that portion of the site. Many permits will allow you to then discontinue inspection activities in these areas (be sure to check your permit for exact requirements). You can amend or add to this section as areas of your project are finally stabilized.
- Update your site plans to indicate areas that have achieved final stabilization.
- Note that dates for areas that have achieved final stabilization should be included in Section 6, Part 6.1 of this SWPPP.
- For more on this topic, see *SWPPP Guide*, Chapter 9.

***BMP Description:***

<b><i>Installation Schedule:</i></b>	
<b><i>Maintenance and Inspection:</i></b>	
<b><i>Responsible Staff:</i></b>	

***BMP Description:***

<b><i>Installation Schedule:</i></b>	
<b><i>Maintenance and Inspection:</i></b>	
<b><i>Responsible Staff:</i></b>	

Repeat as needed

## SECTION 8: CERTIFICATION AND NOTIFICATION

**Instructions:**

- The SWPPP should be signed and certified by the construction operator(s). Attach a copy of the NOI and permit authorization letter received from EPA or the state in Appendix D.

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 gathered and evaluated 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.

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Repeat as needed for multiple construction operators at the site

certifying person or  
duly authorized  
person and/or the  
construction  
operator

## **SWPPP APPENDICES**

Attach the following documentation to the SWPPP:

***Appendix A – General Location Map***

***Appendix B – Site Maps***

***Appendix C – Construction General Permit***

***Appendix D – NOI and Acknowledgement Letter from EPA/State***

***Appendix E – Inspection Reports***

***Appendix F – Corrective Action Log (or in Part 5.3)***

***Appendix G – SWPPP Amendment Log (or in Part 6.2)***

***Appendix H – Subcontractor Certifications/Agreements***

***Appendix I – Grading and Stabilization Activities Log (or in Part 6.1)***

***Appendix J – Training Log***

***Appendix K – Delegation of Authority***

***Appendix L – Additional Information (i.e., Endangered Species and Historic Preservation Documentation)***

## Appendix F – *Sample* Corrective Action Log

Project Name:  
SWPPP Contact:

Inspection Date	Inspector Name(s)	Description of BMP Deficiency	Corrective Action Needed (including planned date/responsible person)	Date Action Taken/Responsible person

## Appendix G – *Sample* SWPPP Amendment Log

Project Name:  
SWPPP Contact:

Amendment No.	Description of the Amendment	Date of Amendment	Amendment Prepared by [Name(s) and Title]

## Appendix H – *Sample* Subcontractor Certifications/Agreements

### SUBCONTRACTOR CERTIFICATION STORMWATER POLLUTION PREVENTION PLAN

Project Number: \_\_\_\_\_

Project Title: \_\_\_\_\_

Operator(s): \_\_\_\_\_

As a subcontractor, you are required to comply with the Stormwater 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 stormwater 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 BMPs 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: \_\_\_\_\_

## Appendix I – *Sample* Grading and Stabilization Activities Log

Project Name:  
SWPPP Contact:

Date Grading Activity Initiated	Description of Grading Activity	Date Grading Activity Ceased (Indicate Temporary or Permanent)	Date When Stabilization Measures are Initiated	Description of Stabilization Measure and Location

## Appendix J – *Sample* SWPPP Training Log

### Stormwater Pollution Prevention Training Log

Project Name: \_\_\_\_\_

Project Location: \_\_\_\_\_

Instructor's Name(s): \_\_\_\_\_

Instructor's Title(s): \_\_\_\_\_

Course Location: \_\_\_\_\_ Date: \_\_\_\_\_

Course Length (hours): \_\_\_\_\_

Stormwater Training Topic: *(check as appropriate)*

- ☐ Erosion Control BMPs      ☐ Emergency Procedures  
☐ Sediment Control BMPs      ☐ Good Housekeeping BMPs  
☐ Non-Stormwater BMPs

Specific Training Objective: \_\_\_\_\_  
\_\_\_\_\_

Attendee Roster: *(attach additional pages as necessary)*

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



## Appendix K – *Sample* Delegation of Authority Form

### Delegation of Authority

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**Name:**

**Company:**

**Title:**

**Signature:**

**Date:**

Use the CWB NOI General Form, Item No. 6 and 7  
to assign the duly authorized representative. The certifying  
person must submit the change in authorization.

— A new authorized representative may be appointed by submitting a  
— hard copy of the information on the CWB NOI General Form: Item  
— Nos. 6.c. or 6.d. – Authorized Representative Information; a hard  
— copy of Item No. 7. – Certification; and the CWB NOI General Form  
— with the revised Authorized Representative Information submitted via  
“Submit by Email” button.

The CWB recognizes only one (1) duly authorized  
representative per NOI/NGPC at any time.

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true, accurate,  
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**Initial NOI Submittal - Option No. 1**  
**via Email with Original Signed/Dated Item No. 7 of CWB NOI General Form (page 4),**  
**\$500 Filing Fee, CD/DVD, and Printed Copy of Sent Email Message**

**1** Use this button to create .xml file. See email message below.

**2** Insert NGPC File No. if known. Insert Project Name if New NOI.

**3** Insert certification statement in body of message.

**4** Copy .xml file from message to CD/DVD. Do not use the "save as xml" option.

**5** Also copy supporting information pdf files attached in email message to CD/DVD.

**6** SEND EMAIL MESSAGE. Then also mail or deliver hard copy of original signed certification in Item No. 7 on page 4 of CWB NOI General Form, \$500 Filing Fee, CD/DVD, and printed copy of sent email message.

**File and Folder Tasks**

- Make a new folder
- Publish this folder to the Web
- Share this folder

**Other Places**

- 2010ConstructionStormwat
- My Documents
- My Computer
- My Network Places

**Details**

**handouts**  
File Folder  
Date Modified: Tuesday, January 19, 2010, 2:46 PM

**File Name List:**

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- ApohaAquariumCWBNOI\_GeneralIncomplete.pdf
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- sw\_swppp\_template\_authstates.doc
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**Initial NOI Submittal - Option No. 2**  
**via CD/DVD with Original Signed/Dated Item No. 7 of CWB NOI General Form (page 4) and \$500 Filing Fee**

**1** Use this button to create .xml file. See email message below.

**2** Copy .xml file from message to CD/DVD. Do not use the "save as xml" option.

**3** Also copy supporting information pdf files to CD/DVD.

**4** DO NOT SEND EMAIL MESSAGE. Mail or deliver original signed certification in Item No. 7 on page 4 of CWB NOI General Form, \$500 Filing Fee, and CD/DVD with xml file and all other supporting information for NOI in pdf format.

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  <RepresentativeStateC>HI</RepresentativeStateC>
  <RepresentativeZipPlus4C />
  <RepresentativeFirstNameC />
  <RepresentativeLastNameC />
  <RepresentativePositionTitleC />
  <RepresentativePhoneNoC />
  <RepresentativeFaxNoC />
  <RepresentativeEmailC />

```

```

</Item6AuthorizedRepresentativeSubform>
- <Item7CertificationSubform>
  <CertificationSelectionRadioButtonList>1</CertificationSelectionRadioButtonList>
  - <CertificationSignatureSubform>
    <DateSigned>8/3/2010</DateSigned>
    <CertifyingFirstName>Chiyome Leinaala</CertifyingFirstName>
    <CertifyingLastName>Fukino, M.D.</CertifyingLastName>
    <CertifyingPositionTitle>Director</CertifyingPositionTitle>
    <CertifyingLegalName>State of Hawaii</CertifyingLegalName>
    <CertifyingDepartment>Department of Health</CertifyingDepartment>
    <CertifyingDivision>Environmental Management Division, Clean Water
      Branch</CertifyingDivision>
    <CertifyingPhoneNo>808 586-4410</CertifyingPhoneNo>
    <CertifyingFaxNo>808 586-4444</CertifyingFaxNo>
    <CertifyingEmail>TheDirectorOfHealth@ :-)</CertifyingEmail>
  </CertificationSignatureSubform>
</Item7CertificationSubform>
</CWBNOIGeneralForm>

```

File No: Number: **General Permit Datasheet***Thursday, January 21, 2010*

Phase:	<input type="text"/>	Appen	<input type="text" value="CS"/>	Eng	<input type="text" value="JS"/>	ClaimAutoCov	<input type="text"/>	WaiveAutoCov	<input checked="" type="text" value="x"/>
NOI Received Date:	<input type="text" value="8/5/2010"/>	NOI Ack Date:	<input type="text" value="8/18/2010"/>	NOI Suspension Date:	<input type="text" value="9/17/2010"/>				
Last NOI Received Date:	<input type="text"/>	Last NOI Ack Date:	<input type="text"/>	NOI Completion Date:	<input type="text" value="10/18/2010"/>				
NGPC Issuance Date:	<input type="text" value="10/21/2010"/>	NGPC Effective Date:	<input type="text"/>	NGPC Expiration Date:	<input type="text" value="10/21/2012"/>				
Last NGPC Issuance Date:	<input type="text"/>	NGPC Extension Date:	<input type="text"/>	NGPC Termination Date:	<input type="text"/>				
Box No:	<input type="text"/>								

**1. Owner Information**

Owner Legal Name:	<input type="text" value="State of Hawaii"/>				
Owner Department:	<input type="text" value="Department of Health"/>				
Owner Division:	<input type="text" value="Environmental Management Division, Clean Water Branch"/>				
Owner Mailing Address:	<input type="text" value="P.O. Box 3378"/>				
Owner Mailing City:	<input type="text" value="Honolulu"/>	Owner Mailing State:	<input type="text" value="HI"/>	Owner Mailing Zip-Plus 4:	<input type="text" value="96801-3378"/>
Owner Street Address:	<input type="text" value="919 Ala Moana Boulevard, Room 301"/>				
Owner Street City:	<input type="text" value="Honolulu"/>	Owner Street State:	<input type="text" value="HI"/>	Owner Street Zip-Plus 4:	<input type="text" value="96814-4920"/>
Owner Contact Person First Name:	<input type="text" value="Apoha"/>	Owner Contact Person Last Name:	<input type="text" value="O'opu"/>		
Owner Contact Person Position Title:	<input type="text" value="Fish Chief"/>				
Owner Phone No:	<input type="text" value="808 586-4309"/>	Owner Fax No:	<input type="text" value="808 586-4352"/>		
OwnerEmail:	<input type="text" value="CleanWaterBranch@doh.hawaii.gov"/>				

**2. Owner Type:** **3. Operator or General Contractor Information**

x For CWB-NOI Forms C, F, G, and I only. The general contractor information will be submitted at least 30 calendar days before the start of construction activities.

Operator Legal Name:	<input type="text"/>				
Operator Department:	<input type="text"/>				
Operator Division:	<input type="text"/>				
Operator Mailing Address:	<input type="text"/>				
Operator Mailing City:	<input type="text"/>	Operator Mailing State:	<input type="text" value="HI"/>	Operator Mailing Zip-Plus 4:	<input type="text"/>
Operator Street Address:	<input type="text"/>				
Operator Street City:	<input type="text"/>	Operator Street State:	<input type="text" value="HI"/>	Operator Street Zip-Plus 4:	<input type="text"/>
Operator Contact Person First Name:	<input type="text"/>	Operator Contact Person Last Name:	<input type="text"/>		
Operator Contact Person Position Title:	<input type="text"/>				
Operator Phone No:	<input type="text"/>	Operator Fax No:	<input type="text"/>		
OperatorEmail:	<input type="text"/>				



File No: R10Z999

Number: Z999

## General Permit Datasheet

Thursday, January 21, 2010

## 4. Facility or Project Information

Facility Legal Name:	Apoha Aquarium				
Facility Mailing Address:	P.O. Box 3378				
Facility Mailing City:	Honolulu	Facility Mailing State:	HI	Facility Mailing Zip-Plus 4:	96801-3378
Facility Street Address:	Southeast Corner of Ward Avenue and Ahui Street				
Facility City:	Honolulu	Facility State:	HI	Facility Zip-Plus 4:	96814-0000
Facility Contact Person First Name:	Apoha	Facility Contact Person Last Name:	O'opu		
Facility Contact Person Position Title	Fish Chief				
Facility Phone No:	808 586-4309	Facility Fax No:	808 586-4352		
FacilityEmail:	CleanWaterBranch@doh.hawaii.gov			Island of Facility:	Oahu
FacilityTMKDivision	FacilityTMKZone	FacilityTMKSection	FacilityTMKPlat	FacilityTMKParcelLot	
1	2	1	058; 123	095 (portion)	

## 5. Receiving State Water(s) Information

5.a. Number of Receiving State Waters	1				
5.a.i. Receiving Waters Name:	Kewalo Basin				
Receiving Waters Classification:	A, Embayment				
Latitude Degrees (N):	21.00	Latitude Minutes:	17.00	Latitude Seconds:	37.00
Longitude Degrees (W):	157.0	Longitude Minutes:	51.00	Longitude Seconds:	31.00
5.a.ii. Addl Receiving Waters Name:	Kewalo Basin - Sheet Flow Pt. A				
Receiving Waters Classification:	A, Embayment				
Latitude Degrees (N):	21.00	Latitude Minutes::	17.00	Latitude Seconds:	37.00
Longitude Degrees (W):	157.0	Longitude Minutes:	51.00	Longitude Seconds:	29.00
5.a.iii. Addl Receiving Waters Name:	Kewalo Basin - Sheet Flow Pt. B				
Receiving Waters Classification:	A, Embayment				
Latitude Degrees (N):	21.00	Latitude Minutes:	17.00	Latitude Seconds:	36.00
Longitude Degrees (W):	157.0	Longitude Minutes:	51.00	Longitude Seconds:	32.00
5.b. Receiving Separate Drainage System					
Separate Drainage System Owner Name:	Hawaii Community Development Authority (HCDA) Small MS4				
Latitude Degrees (N):	21.00	Latitude Minutes:	17.00	Latitude Seconds:	39.00
Longitude Degrees (W):	157.0	Longitude Minutes:	51.00	Longitude Seconds:	34.00
<input type="checkbox"/> Drainage System Owner Approval Attached:	<input checked="" type="checkbox"/> Drainage System Owner Approval Later:				

File No: Number: **General Permit Datasheet***Thursday, January 21, 2010*

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**6. Authorized Representative Information**☐ Representative Authorization A:☒ Representative Authorization B:

Representative Company Name:

Representative Department:

Representative Division:

Representative Mailing Address:

Representative Mailing City:  Mailing State:  Mailing Zip-Plus 4:

Representative Street Address:

Representative Street City:  Street State:  Street Zip-Plus 4:

Representative First Name:

Representative Last Name:

Representative Position Title:

Representative Phone No:  Representative Fax No:

Representative Email:

☐ Representative Authorization C:☐ Representative Authorization D:

Representative Company Name:

Representative Department:

Representative Division:

Representative Mailing Address:

Representative Mailing City:  Mailing State:  Mailing ZipPlus4:

Representative Street Address:

Representative Street City:  Street State:  Street ZipPlus 4:

Representative First Name:

Representative Last Name:

Representative Position Title:

Representative Phone No:  Representative Fax No:

Representative Email:

File No: R10Z999

Number: Z999

## General Permit Datasheet

Thursday, January 21, 2010

### 7. Certification

#### 1 Certification Selection

- |   |  |
|---|--|
| 01 - certify that for a state agency              | 06 - certify that for a corporation, charge of a principal business function |
| 02 - certify that for a municipal agency          | 07 - certify that for a proprietor   |
| 03 - certify that for a non-federal public agency | 08 - certify that for a corporation, authorized make management decisions    |
| 04 - certify that for a federal agency            | 09 - certify that for a trust (trustee)                                      |
| 05 - certify that for a general partner           | 10 - certify that for a limited liability company (LLC)                      |

DateSigned: 8/3/2010

Certifying First Name: Chiyome Leinaala

Certifying Last Name: Fukino, M.D.

CertifyingPositionTitle: Director

Certifying Legal Name: State of Hawaii

Certifying Department: Department of Health

Certifying Division: Environmental Management Division, Clean Water Branch

Certifying Phone No: 808 586-4410

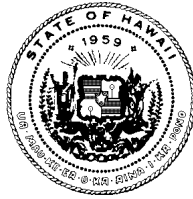
Certifying Fax No: 808 586-4444

Certifying Email: TheDirectorOfHealth@ :-)

### Additional Information

Additional Information: 8/5/2010: \$500 Chk #060710 dated 1/19/10 - 1 orig/np; 8/6/2010 10:12:36 AM - Update from pdf submitted via Email;

LINDA LINGLE  
GOVERNOR OF HAWAII



CHIYOME L. FUKINO, M.D.  
DIRECTOR OF HEALTH

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

In reply, please refer to:  
EMD / CWB

R10Z999.FNL.10

October 21, 2010

Chiyome Leinaala Fukino, M.D.  
Director  
Department of Health  
State of Hawaii  
919 Ala Moana Boulevard, Room 301  
Honolulu, Hawaii 96814-4920

Attention: Mr. Apoha O`opu  
Fish Chief

Dear Dr. Fukino:

**Subject: NOTICE OF GENERAL PERMIT COVERAGE (NGPC)  
National Pollutant Discharge Elimination System (NPDES)  
Apoha Aquarium  
Kakaako, Island of Oahu, Hawaii  
File No. HI R10Z999**

In compliance with the provisions of the Clean Water Act, as amended, (33 U.S.C. §1251 et seq.; the "Act"); Hawaii Revised Statutes, Chapter 342D; and Hawaii Administrative Rules (HAR), Chapters 11-54 and 11-55, Department of Health (DOH), State of Hawaii,

**STATE OF HAWAII  
DEPARTMENT OF HEALTH (DOH)**

(hereinafter PERMITTEE)

is authorized to discharge storm water associated with construction activity from the subject project located at the Southeast Corner of Ward Avenue and Ahui Stree, Kakaako, Island of Oahu, Hawaii, TMK: (1) 2-1-058:095 (portion), to the receiving waters named Kewalo Basin, Class A, Marine Water Embayment, receiving State water discharge points identified in the table below:

Discharge Point No.	Latitude (N)	Longitude (W)
001	21°17'37"	157°51'31"
Pt. A (From)	21°17'37"	157°51'29"
Pt. B (To)	21°17'36"	157°51'32"

**This NGPC will take effect on the date of this notice. This NGPC will expire at midnight, October 21, 2012, or when amendments to HAR, Chapter 11-55, Appendix C, are adopted, whichever occurs first. Any non-compliance with the conditions of this NGPC may be subject to penalties of up to \$25,000 per violation per day.**

**The Permittee shall:**

1. Submit the following information in accordance with the CWB NOI General Form and CWB-NOI Form C (Rev. 8/01/2007), **at least 30 calendar days before the start of construction activities:**

**All questions/concerns that the DOH may have must be answered to the satisfaction of the CWB, and you must receive CWB written acceptance of your submittal prior to the start of construction.**

- a. A hard copy of the General Contractor information (Item No. 3. of the CWB NOI General Form) and the CWB NOI General Form with the General Contractor information submitted via "Submit by Email" button.
- b. The Site-Specific Construction BMPs Plan (Item No. C.8.c. of CWB-NOI Form C). At a minimum, the Site-Specific Construction BMPs Plan shall include a map or drawing showing the location of all BMPs and details with dimensions of all BMPs.
  - i. Non-Storm Water Information (Item Nos. C.3.c through C.3.i. of the CWB-NOI Form C). Provide the disposal method(s) and disposal location(s) for the handling of construction exit wash water, irrigation water, hydrotesting effluent, dewatering effluent, saw-cutting slurry, concrete curing water, and water-jet wash water.
  - ii. Construction plans (Item No. C.8.a.ii. of the CWB-NOI Form C). Provide the construction plans that show:
    - a. The construction baseyard and/or staging areas (Item No. C.8.a.ii.(6) of the CWB-NOI Form C).
    - b. The areas used for the storage of soils, construction materials, or wastes and areas for the disposal of wash water from washing down of construction equipment and vehicles, concrete truck drum wash water, treated dewatering effluent,

- hydrotesting effluent discharge, etc. (Item No. C.8.a.ii.(7) of the CWB-NOI Form C).
- c. The location(s) where stabilization practices are expected to occur (Item No. C.8.a.ii.(8) of the CWB-NOI Form C).
  - d. The location(s) and descriptions of all structural controls including those that will be used to divert the offsite storm water from flowing into the construction site (Item No. C.8.a.ii.(9) of the CWB-NOI Form C).
  - e. The areas where vegetative practices are to be implemented (Item NO. C.8.a.ii.(10) of the CWB-NOI Form C).
- iii. The type of materials and heavy equipment that will be used for the construction activities (Item No. C.8.b.i.(3) of the CWB-NOI Form C).
  - iv. The nature of the fill material to be used and existing data describing the soil or the quality of any discharge from the project site (Item No. C.8.b.ii. of the CWB-NOI Form C).
  - v. The potential pollutants control and treatment measures (Item No. C.8.b.iii. of the CWB-NOI Form C).
  - vi. County Approved Erosion and Sediment Control Plan and/or grading permit with appropriate plan (Item No. C.8.b.v. of CWB NOI Form C).
  - vii. The construction schedule (Item No. C.8.b.vi. of the CWB-NOI Form C).
2. Notify the Director of Health of the construction start date by e-mail at [cleanwaterbranch@doh.hawaii.gov](mailto:cleanwaterbranch@doh.hawaii.gov) or fax at (808) 586-4352 within seven (7) calendar days before the start of construction activities. **All communication, including but not limited to the e-mail and fax, with the Clean Water Branch (CWB) shall include the File No. HI R10Z999 and the certification statement below.** The notification will only be accepted from the person qualified in accordance with HAR, Chapter 11-55, Section 11-55-34.08(f).
  3. Complete and submit the Solid Waste Disclosure Form for Construction Sites to the DOH, Solid and Hazardous Waste Branch, Solid Waste Section, as specified on the form at least 30 calendar days before the start of construction activities. The form can be downloaded at: <http://www.hawaii.gov/health/environmental/waste/sw/pdf/swdiscformnov2008.pdf>.

4. Implement, operate, and maintain the project site-specific Best Management Practices (BMPs) Plan to ensure that storm water discharges associated with construction activities will not cause or contribute to a violation of applicable State water quality standards.
5. Review the effectiveness and adequacy of the implemented site-specific BMPs Plan(s) and Erosion and Sediment Control (ESC) Plan(s) at a minimum of once per week, and update the plan as often as necessary. Any changes(s) to the site-specific BMPs Plans and/or ESC Plans or correction(s) to information already on file with the CWB shall be submitted to the CWB as soon as such change(s) or correction(s) arises. The Permittee shall properly address all related concerns and/or comments to the CWB's satisfaction.
6. Retain a copy of this NGPC and all other related materials at the job site or nearby field office.
7. Comply with HAR, Sections 11-55-34.04(a), 11-55-34.07, 11-55-34.11, and 11-55-34.12 (enclosed) and any other applicable Sections of HAR, Chapter 11-55; HAR, Chapter 11-55, Appendix A, DOH, Standard General Permit Conditions (enclosed); HAR, Chapter 11-55, Appendix C, NPDES General Permit Authorizing Discharges of Storm Water Associated with Construction Activities (enclosed); and all materials submitted in and with the Notice of Intent (NOI), dated August 3, 2010.
8. Complete and submit the Notice of Cessation (NOC) Form (CWB-NOC Form) to the CWB within two (2) weeks of completion of the subject project. The CWB-NOC Form can be downloaded from our website at:  
<http://www.hawaii.gov/health/environmental/water/cleanwater/forms/pdf/cwb-noc.pdf>.
9. Know that Mr. Alec Wong, P.E., of DOH-CWB is recognized as the duly authorized representative. Mr. Wong shall submit all information/documents for compliance with the NGPC conditions, except submittal of the CWB-NOC Form. The NOC must be submitted by Dr. Fukino or the Director of Health. A new authorized representative may be appointed by submitting a hard copy of the information on the CWB NOI General Form: Item Nos. 6.c. or 6.d. – Authorized Representative Information; a hard copy of Item No. 7. – Certification; and the CWB NOI General Form with the revised Authorized Representative Information submitted via “Submit by Email” button.
10. For future submittals, include the **File No. HI R10Z999** and the following certification statement in your cover letter:

**“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.”**

**The Permittee is responsible for obtaining other Federal, State, or local authorizations as required by law.**

If you have any questions, please contact Mr/Ms. ZZZZZ of the Enforcement Section, or Mr/Ms. ZZZZZ of the Engineering Section, CWB, at (808) 586-4309.

Sincerely,

STEVEN Y.K. CHANG, P.E., ACTING CHIEF  
Environmental Management Division

JS:np

Enclosures: 1. HAR, Sections 11-55-01 and 11-55-34 to 11-55-34.12  
2. HAR, Chapter 11-55, Appendices A and C  
3. Title 40, Code of Federal Regulations Citations as referenced in HAR,  
Chapter 11-55, Water Pollution Control, Appendix A  
4. Hawaii DOH Customer Satisfaction Survey

c: Mr. Apoha O`opu, DOH-CWB (w/o encls.) [via email]  
Mr. Alec Wong, P.E., DOH-CWB (w/o encls.) [via email only]



## Additional Information and/or Compliance Submittal - Option No. 1 via Email with Original Signed/Dated Email message and CD/DVD

**1** Use this button to create .xml file. See email message below.

**2** Insert NGPC File No. and Project Name.

**3** Insert certification statement in body of message.

**4** Copy .xml file from message to CD/DVD. Do not use the "save as xml" option.

**5** Also copy pdf files attached in email message to CD/DVD.

**6** SEND EMAIL MESSAGE. Then also mail or deliver hard copy of original signed/dated printed copy of sent email message (from certifying person or duly authorized representative only) and CD/DVD with all attachments in email message.

The image displays three main windows:

- Adobe Acrobat Professional:** Shows the "CWB NOI General Form" with fields for "Certifying Person's Company or Agency" (State of Hawaii), "Certifying Department" (Department of Health), "Certifying Division" (Environmental Management Division, Clean Water Branch), "Certifying Phone No" (808 586-4410), and "Certifying Fax No" (808 586-4444). The "Submit by Email" button is highlighted.
- File Explorer:** Shows the "handouts" folder containing various files, including "ApohaAquariumCWBNOI\_General.pdf", "ApohaAquariumCWBNOI\_General\_data.xml", and several PDF files related to the project.
- Email Client:** Shows an email message titled "Submittal of CWB-NOI Form for Ne...". The "To" field is "CleanWaterBranch", the "Subject" is "Submittal of CWB-NOI Form for HI R10Z999 - Apoha Aquarium", and the "Attachments" list includes "ApohaAquariumCWBNOI\_General\_data.xml (8 KB)".

## Additional Information and/or Compliance Submittal - Option No. 2 via CD/DVD with Original Signed/Dated Transmittal Cover Sheet only

The image shows a composite of three windows illustrating the submission process for a CWB-NOI form via CD/DVD.

**Top Window: Adobe Acrobat Professional**  
The window displays the "CWB NOI General Form" for the "State of Hawaii". The form includes fields for "Certifying Person's Company or Agency", "Certifying Department", "Certifying Division", "Certifying Phone No", and "Certifying Fax No". A red box highlights the "Submit by Email" button, with a red arrow pointing to it and a red circle labeled "1". A red text box with an arrow pointing to the button says: "Use this button to create .xml file. See email message below."

**Bottom Window: Microsoft Outlook**  
The window shows an email draft titled "Submittal of CWB-NOI Form for New Apoha Aquarium Project - M...". The "To" field is "CleanWaterBranch". The "Subject" is "Submittal of CWB-NOI Form for New Apoha Aquarium Project". The "Attachments" list includes "ApohaAquariumCWBNOI\_General\_data.xml (8 KB)". A red box highlights the "Send" button, with a red arrow pointing to it and a red circle labeled "4". A red text box with an arrow pointing to the "Send" button says: "DO NOT SEND EMAIL MESSAGE. Mail or deliver original signed Transmittal/Cover Sheet with certification statement and CD/DVD with xml file and all other supporting information for NOI/ NGPC compliance in pdf format."

**Right Window: Windows Explorer**  
The window shows the "handouts" folder. The file list includes various PDF and XML files. A red box highlights the "ApohaAquariumCWBNOI\_General\_data.xml" file, with a red arrow pointing to it and a red circle labeled "2". A red text box with an arrow pointing to the file says: "Copy .xml file from message to CD/ DVD. Do not use the 'save as xml' option." Another red box highlights the "ApohaAquariumCWBNOI\_General\_data.xml" file and the "ApohaAquariumCWBNOI\_General\_data.xml.pdf" file, with a red arrow pointing to them and a red circle labeled "3". A red text box with an arrow pointing to the files says: "Also copy supporting information and/or NGPC compliance information pdf files to CD/DVD."



# CWB NOI General Form for Appendix F

Previously assigned  
NGPC File No  
(for renewal NOI only): HI \_\_\_\_\_

Automatic  
Coverage  
(for New NOI  
only)

☐  
☒

I elect to **claim** automatic coverage  
per HAR, Section 11-55-34.09(f).  
I elect to **waive** automatic coverage  
per HAR, Section 11-55-34.09(g).

## 1. Owner Information

Owner Legal Name State of Hawaii

Owner Department Department of Health

Owner Division Environmental Management Division, Clean Water Branch

Owner Mailing Address P.O. Box 3378

Owner Mailing City Honolulu Owner Mailing State HI Owner Mailing Zip+4 96801-3378

Owner Street Address 919 Ala Moana Boulevard, Room 301

Owner City Honolulu Owner State HI Owner Zip+4 96814-4920

Owner Contact Person First Name Apoha Owner Contact Person Last Name O'opu

Owner Contact Person Position Title Fish Chief

Owner Phone No 808 586-4309 Owner Fax No 808 586-4352

Owner Contact Person Email CleanWaterBranch@doh.hawaii.gov

2. Owner Type Industrial

Options for Owner Type:

Industrial - Private Facility or Project  
Municipal - City, County, or State Government Facility or Project  
Federal - Federal Government Facility or Project  
MS4 - Municipal Separate Storm Sewer System

## 3. Operator or General Contractor Information

☒ For CWB-NOI Forms C, F, G, and I only  
The general contractor information will be submitted at least 30 calendar days before the start of construction activities.

Operator Legal Name \_\_\_\_\_

Operator Department \_\_\_\_\_

Operator Division \_\_\_\_\_

Operator Mailing Address \_\_\_\_\_

Operator Mailing City \_\_\_\_\_ Oper. Mailing State HI Operator Mailing Zip+4 \_\_\_\_\_

Operator Street Address \_\_\_\_\_

Operator City \_\_\_\_\_ Operator State HI Operator Zip+4 \_\_\_\_\_

Operator Contact Person First Name \_\_\_\_\_ Oper. Contact Person Last Name \_\_\_\_\_

Operator Contact Person Position Title \_\_\_\_\_

Operator Phone No \_\_\_\_\_ Operator Fax No \_\_\_\_\_

Operator Contact Person Email \_\_\_\_\_

#### 4. Facility or Project Information

Facility Legal Name Apoha Aquarium

Facility Mailing Address P.O. Box 3378

Facility Mailing City Honolulu Facility Mailing State HI Facility Mailing Zip+4 96801-3378

Facility Street Address Southeast Corner of Ward Avenue and Ahui Street

Facility City Honolulu Facility State HI Facility Zip+4 96814-0000

Facility Contact Person First Name Apoha Facility Contact Person Last Name O`opu

Facility Contact Person Position Title Fish Chief

Facility Phone No 808 586-4309 Facility Fax No 808 586-4352

Facility Contact Person Email CleanWaterBranch@doh.hawaii.gov

Island of Facility Oahu If there are multiple Plat and/or Parcel Numbers, please separate them with semi-colons.  
If there are more Tax Map Keys (TMKs), please attach a separate sheet.

TMK Division	Zone	Section	Plat	Parcel or Lot
(1)	2	1	058; 123	095 (portion)

#### 5. Receiving State Water(s) Information

5.a. Number of Receiving State Waters 1

5.a.i. Receiving Waters Name Kewalo Basin

Receiving Waters Classification A, Embayment

Latitude Degrees (N)	<u>021</u>	Latitude Minutes	<u>17</u>	Latitude Seconds	<u>37</u>
Longitude Degrees (W)	<u>157</u>	Longitude Minutes	<u>51</u>	Longitude Seconds	<u>31</u>

5.a.ii. Additional Receiving Waters Name \_\_\_\_\_

Receiving Waters Classification A, Embayment

Latitude Degrees (N)	_____	Latitude Minutes	_____	Latitude Seconds	_____
Longitude Degrees (W)	_____	Longitude Minutes	_____	Longitude Seconds	_____

5.a.iii. Additional Receiving Waters Name \_\_\_\_\_

Receiving Waters Classification A, Embayment

Latitude Degrees (N)	_____	Latitude Minutes	_____	Latitude Seconds	_____
Longitude Degrees (W)	_____	Longitude Minutes	_____	Longitude Seconds	_____

5.b. Receiving Separate Drainage System - Complete the following if the discharge from your facility or project first enters a separate storm drainage system (e.g., City and County of Honolulu Municipal Separate Storm Sewer System [MS4] , etc.)

Separate Drainage System Owner Name Hawaii Community Development Authority (HCDA) Small MS4

Latitude Degrees (N)	<u>021</u>	Latitude Minutes	<u>17</u>	Latitude Seconds	<u>39</u>
Longitude Degrees (W)	<u>157</u>	Longitude Minutes	<u>51</u>	Longitude Seconds	<u>34</u>

- ☐ Drainage System Owner Approval to Discharge is attached.
- ☒ The request to the Drainage System Owner for Approval to Discharge is attached. The Approval to Discharge will be submitted at least 30 calendar days before the start of construction activities or discharge, whichever is sooner.



**6. Authorized Representative Information** - Select authorization under A or B or C or A & C or D. Do not select A & B or B & C - this will cause a delay in the issuance of the NGPC.

- ☐ A. This statement authorizes the named individual or any individual occupying the named position of the company/organization listed below to act as our representative to submit information/documents necessary to complete the CWB NOI Form for coverage under the NPDES general permit to discharge to State waters from the subject facility. The Owner hereby agrees to comply with and be responsible for all NGPC conditions.
- ☒ B. This statement authorizes the named individual or any individual occupying the named position of the company/organization listed below to act as our representative to submit information/documents necessary to complete the CWB NOI Form for coverage under the NPDES general permit to discharge to State waters from the subject facility. Our representative is further authorized to submit information/documents for compliance with the NGPC conditions, except submittal of the CWB NOC Form. The Owner hereby agrees to comply with and be responsible for all NGPC conditions.

Representative Company/Organization Name State of Hawaii

Representative Department Department of Health

Representative Division Environmental Management Div., Clean Water Branch

Representative Mailing Address P.O. Box 3378

Rep. Mailing City Honolulu Rep. Mailing State HI Rep. Mailing Zip+4 96801-3378

Representative Street Address 919 Ala Moana Boulevard, Room 301

Representative City Honolulu Rep. State HI Representative Zip+4 96814-4920

Representative First Name Alec Representative Last Name Wong, P.E.

Representative Position Title Branch Chief

Representative Phone No 808 586-4309 Representative Fax No 808 586-4352

Representative Contact Person Email alec.wong@:-)

- ☐ C. This statement authorizes the named individual or any individual occupying the named position of the company/organization listed below to act as our representative to submit information/documents for compliance with the NGPC conditions, except submittal of the CWB NOC Form. The Owner hereby agrees to comply with and be responsible for all NGPC Conditions.
- ☐ D. A separate authorization statement is attached, specifying the limited authorization of the representative.

Representative Company/Organization Name \_\_\_\_\_

Representative Department \_\_\_\_\_

Representative Division \_\_\_\_\_

Representative Mailing Address \_\_\_\_\_

Rep. Mailing City \_\_\_\_\_ Rep. Mailing State HI Rep. Mailing Zip+4 \_\_\_\_\_

Representative Street Address \_\_\_\_\_

Representative City \_\_\_\_\_ Rep. State HI Representative Zip+4 \_\_\_\_\_

Representative First Name \_\_\_\_\_ Representative Last Name \_\_\_\_\_

Representative Position Title \_\_\_\_\_

Representative Phone No \_\_\_\_\_ Representative Fax No \_\_\_\_\_

Representative Contact Person Email \_\_\_\_\_

**7. Certification** - Alteration of this item will result in the invalidation of this CWB-NOI Form submittal. **The person certifying this CWB-NOI Form must meet one of the following descriptions and be employed by the owner or be an administrator of the sole proprietorship, trust, or LLC listed in Item 1.**

<input checked="" type="radio"/>	I certify that for a state agency, I am a principal executive officer or ranking elected official.
<input type="radio"/>	I certify that for a municipal agency, I am a principal executive officer or ranking elected official.
<input type="radio"/>	I certify that for a non-federal public agency, I am a principal executive officer or ranking elected official.
<input type="radio"/>	I certify that for a federal agency, I am the chief executive officer of the agency, or I am the senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.
<input type="radio"/>	I certify that I am a general partner for a partnership.
<input type="radio"/>	I certify that for a corporation, I am the President, Vice President, Secretary, or Treasurer of the corporation and in charge of a principal business function, or I perform similar policy or decision-making functions for the corporation.
<input type="radio"/>	I certify that I am the proprietor for a sole proprietorship.
<input type="radio"/>	I certify that for a corporation, I am the Manager of one or more manufacturing, production, or operating facilities and am authorized to make management decisions which govern the operation of the regulated facility or facilities including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations. I can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements and authority to sign documents has been assigned or delegated to me in accordance with corporate procedures.
<input type="radio"/>	I certify that for a trust, I am a trustee.
<input type="radio"/>	I certify that for a limited liability company (LLC), I am the Manager or a Member authorized to make management decisions for the LLC and am in charge of a principal business function, or I perform similar policy or decision-making functions for the LLC.

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 8/3/2010

Certifying Person First Name Chiyome Leinaala

Certifying Person Last Name Fukino, M.D.

Certifying Person Position Title Director

Certifying Person's Company or Agency State of Hawaii

Certifying Department Department of Health

Certifying Division Environmental Management Division, Clean Water Branch

Certifying Phone No 808 586-4410

Certifying Fax No 808 586-4444

Certifying Person Email TheDirectorOfHealth@:-)

For facilities/projects on the island of Oahu, submit one (1) copy of the CWB NOI General Form, applicable discharge form (e.g., CWB NOI Form C), and supporting documents with the certifying person's original signature and \$500 Filing Fee.  
For facilities/projects on the island of Hawaii, submit three (3) copies of the CWB NOI General Form, applicable discharge form (e.g., CWB NOI Form C), and supporting documents. One copy of the CWB NOI General Form shall include the certifying person's original signature and \$500 Filing Fee.  
For facilities/projects located on islands other than Oahu and Hawaii, submit two (2) copies of the CWB NOI General Form, applicable discharge form (e.g., CWB NOI Form C), and supporting documents. One copy of the CWB NOI General Form shall include the certifying person's original signature and \$500 Filing Fee.

Submit by Email

Print Form

FILE COPY



State of Hawaii, Department of Health,  
Clean Water Branch

CWB NOI Form F

Previously Assigned  
NGPC File No.  
(for renewal NOI only):  
HI

Notice of Intent for HAR, Chapter 11-55, Appendix F - NPDES General  
Permit Coverage Authorizing Discharges of Hydrotesting Waters

2009 APR 1 3:19PM

Before completing this form, read the *General Guidelines for NOI Forms B through L* and *Guidelines for CWB NOI Form F*. Alteration of the text in this form may delay the processing of this submittal.

F.1. Location Map (see Guidelines for CWB NOI Form F - Note 1)

a. A location map which shows the following is attached: Yes ☒ No ☐  
*See Figure 1, Project Location.*

i. Island on which the project or activity is located, and

ii. Location of the project or activity.

b. A topographic map or maps of the area which clearly show the following is/are attached:

Yes ☒ No ☐

*See Figure 1, Project Location.*

i. Legal boundaries of the project or activity,

ii. Location and identification number of each of the project's or activity's existing and/or proposed outfalls or discharge points, and

iii. Receiving State water(s) and receiving storm water drainage system(s), if applicable, identified and labeled.

F.2. Flow Chart (see Guidelines for CWB NOI Form F - Note 2)

A flow chart or line drawing showing the general route taken by hydrotesting water through the project or activity from intake to the discharge point is attached.

Yes ☒ No ☐

*See Figure 2, Hydrotesting Water Flow Chart, Figure 3, Hydrotesting Sequence and Figure 4, Filter System.*

F.3. Existing or Pending Permits, Licenses, or Approvals (see Guidelines for CWB NOI Form F - Note 3)

Provide the status and corresponding file numbers on any existing or pending environmental permits.

a. Other NPDES Permit or NGPC File No.: CWB NOI-C (Pending)

b. DA Permit: N/A

c. Section 401 WQC: N/A

d. RCRA Permit (Hazardous Wastes): N/A

- e. Facility on SARA 313 List (identify SARA 313 chemicals on site):

N/A

- f. Other (Specify): N/A

F.4. Project or Activity Description (see Guidelines for CWB NOI Form F - Note 4)

- a. Overview of the hydrotesting activities. Include an 8-1/2 by 11 inches sized plan or a plan folded to 8-1/2 by 11 inches showing the location of the tank, waterlines and/or sewer lines to be hydrotested.

the demolition of the existing paved surface, concrete building foundations and sections of drain lines. The project will also involve resurfacing of the container yard with concrete and AC pavement. Planned utility improvements include construction of new drainage features including a 514-foot long trench drain, installation of approximately 5,037.82 linear feet (l.f.) of 2, 6, and 12-inch diameter waterline and approximately 984.54 l.f. of 4 and 6-inch sewer force mains, and 10 new light poles. Construction is scheduled to commence in July 2010 and last approximately 14 months.

- b. Estimated timetable for major construction activities:

- i. Begin construction

July 2010

- ii. End construction

August 2011

- c. Date(s) on which the hydrotesting activities are expected to occur:

- i. Begin hydrotesting activities

July 2010

- ii. End hydrotesting activities

August 2011

- d. Rates of Effluent Discharge

- i. Estimated average daily flow rates

<1.34 cfs maximum discharge of 239,729 gallons (cfs/gpd)

- ii. Estimated maximum daily flow rates

1.34 cfs maximum discharge of 239,729 gallons (cfs/gpd)



iii. Total Quantity of Discharge

239,729 (gallons) See Section 2, Hydrotesting Discharge Calculations.

- e. List the pollutants that may be present in the hydrotesting water before any treatment and provide an explanation of its origins (e.g., silt introduced during installation, chlorine from disinfection activities, etc.)

1. Chlorinated disinfecting effluent due to chlorination of the water main; and,

2. Sediments in the water main during installation

F.5. Physical Hydrotesting Water Quality (see Guidelines for CWB NOI Form F - Note 5)

a. Source of Hydrotesting Water

1) Kalauao Wells, 2) Punanani Wells, 3) Waipahu Wells I, and 4) Waipahu Wells IV. See Section 3, BWS Source Water Quality Analysis. All source water is potable.

b. Check the appropriate column.

Parameter	Believe Present	Believe Absent
Floating Debris		X
Scum or Foam		X
Color		X
Odor		X

F.6. Water Quality Parameters (see Guidelines for CWB NOI Form F - Note 6)

- a. All parameters must be tested and reported. Provide laboratory data sheets in addition to completing the following table.

**See Section 3, BWS Source Water Quality Analysis.**

Parameter	Test Result	Units	Test Method	Method Detection Limit	HAR, §11-54
Turbidity (0.1 NTU)	N/A	NTU			
Total Suspended Solids (1 mg/l)	N/A	mg/l			
pH (0.1 standard units)	N/A				
Dissolved Oxygen (0.1 mg/l)	N/A	mg/l			
Oxygen Saturation (1%)	N/A	%			
Temperature (0.1 °C)	N/A	°C			
Salinity (0.1 ppt)	N/A	ppt			
or Chloride (0.1 mg/l)*	N/A	mg/l			

Parameter	Test Result	Units	Test Method	Method Detection Limit	HAR, §11-54
or Conductivity (1 µmhos/cm)*	N/A	µmhos/cm			
Oil and Grease (1 mg/l)	N/A	mg/l			

\* Fresh waters and effluent samples

F.7. Toxic Parameters (see Guidelines for CWB NOI Form F - Note 7 and Glossary of Chemicals in General Guidelines for NOI Forms B through L - Note V)

Provide laboratory data sheets in addition to completing the following tables. In cases when test results are not available at the time of the NOI submission, complete the columns for Test Method, Method Detection Limit, and HAR, §11-54-03(b)(3) for parameters believed to be present. For parameters not believed present, indicate "N/A" for "not applicable" in the Test Result column. If the Test Result column is left blank, the CWB will consider the parameter to be present and test results will be required.

a. Metals

Total Recoverable Metal Parameter	Test Result	Units	Test Method	Method Detection Limit	HAR, §11-54-04(b)(3)
Aluminum	N/A	µg/l			
Antimony	N/A	µg/l			
Arsenic	N/A	µg/l			
Beryllium	N/A	µg/l			
Cadmium	N/A	µg/l			
Chromium (VI)	N/A	µg/l			
Copper	0.06	µg/l			
Lead	1.2	µg/l			
Mercury	N/A	µg/l			
Nickel	N/A	µg/l			
Selenium	N/A	µg/l			
Silver	N/A	µg/l			
Thallium	N/A	µg/l			
Tributyltin	N/A	µg/l			
Zinc	N/A	µg/l			

b. Organonitrogen Compounds

Organonitrogen Compound Parameter	Test Result	Units	Test Method	Method Detection Limit	HAR, §11-54-04(b)(3)
Benzidine	N/A	µg/l			
2,4-Dinitro-o-cresol	N/A	µg/l			
Dinitrotoluenes	N/A	µg/l			
1,2-Diphenylhydrazine	N/A	µg/l			
Nitrobenzene	N/A	µg/l			
Nitrosamines	N/A	µg/l			
N-Nitrosodibutylamine	N/A	µg/l			
N-Nitrosodiethylamine	N/A	µg/l			
N-Nitrosodimethylamine	N/A	µg/l			
N-Nitrosodiphenylamine	N/A	µg/l			
N-Nitrosopyrrolidine	N/A	µg/l			

c. Pesticides

Pesticide Parameter	Test Result	Units	Test Method	Method Detection Limit	HAR, §11-54-04(b)(3)
Aldrin	N/A	µg/l			
Chlordane	N/A	µg/l			
Chlorpyrifos	N/A	µg/l			
DDT	N/A	µg/l			
Demeton	N/A	µg/l			
Dieldrin	N/A	µg/l			
Endosulfan	N/A	µg/l			
Endrin	N/A	µg/l			
Guthion	N/A	µg/l			
Heptachlor	N/A	µg/l			
Lindane	N/A	µg/l			
Malathion	N/A	µg/l			
Methoxychlor	N/A	µg/l			
Mirex	N/A	µg/l			
Parathion	N/A	µg/l			
TDE - metabolite of DDT	N/A	µg/l			
Toxaphene	N/A	µg/l			

d. Phenols

Phenol Parameter	Test Result	Units	Test Method	Method Detection Limit	HAR, §11-54-04(b)(3)
2-Chlorophenol	N/A	µg/l			
2,4-Dichlorophenol	N/A	µg/l			
2,4-Dimethylphenol	N/A	µg/l			
Nitrophenols	N/A	µg/l			
Pentachlorophenol	N/A	µg/l			
Phenol	N/A	µg/l			
2,3,5,6-Tetrachlorophenol	N/A	µg/l			
2,4,6-Trichlorophenol	N/A	µg/l			

e. Phthalates

Phthalate Parameter	Test Result	Units	Test Method	Method Detection Limit	HAR, §11-54-04(b)(3)
Bis (2-ethylhexyl) phthalate	N/A	µg/l			
Dibutyl phthalate (esters)	N/A	µg/l			
Diethyl phthalate (esters)	N/A	µg/l			
Dimethyl phthalate (esters)	N/A	µg/l			

f. Polynuclear Aromatic Hydrocarbons

Polynuclear Aromatic Hydrocarbon Parameter	Test Result	Units	Test Method	Method Detection Limit	HAR, §11-54-04(b)(3)
Acenaphthene	N/A	µg/l			
Fluoranthene	N/A	µg/l			
Naphthalene	N/A	µg/l			
Polynuclear aromatic hydrocarbons	N/A	µg/l			

g. Volatile Organics

Volatile Organic Parameter	Test Result	Units	Test Method	Method Detection Limit	HAR, §11-54-04(b)(3)
Acrolein	N/A	µg/l			
Acrylonitrile	N/A	µg/l			
Benzene	N/A	µg/l			
Carbon tetrachloride	N/A	µg/l			
Bis(2-chloroethyl)ether	N/A	µg/l			
Bis(chloroethers-methyl)	N/A	µg/l			

Volatile Organic Parameter	Test Result	Units	Test Method	Method Detection Limit	HAR, §11-54-04(b)(3)
Bis(chloroisopropyl)ether	N/A	µg/l			
Chloroform	N/A	µg/l			
Dichlorobenzenes	N/A	µg/l			
Dichlorobenzidine	N/A	µg/l			
1,2-Dichloroethane	N/A	µg/l			
1,1-Dichloroethylene	N/A	µg/l			
Dichloropropanes	N/A	µg/l			
1,3-Dichloropropene	N/A	µg/l			
Ethylbenzene	N/A	µg/l			
Hexachlorobenzene	N/A	µg/l			
Hexachlorobutadiene	N/A	µg/l			
Hexachlorocyclohexane, alpha	N/A	µg/l			
Hexachlorocyclohexane, beta	N/A	µg/l			
Hexachlorocyclohexane, technical	N/A	µg/l			
Hexachlorocyclopentadiene	N/A	µg/l			
Hexachloroethane	N/A	µg/l			
Isophorone	N/A	µg/l			
Pentachlorobenzene	N/A	µg/l			
Pentachloroethanes	N/A	µg/l			
1,2,4,5-Tetrachlorobenzene	N/A	µg/l			
1,1,2,2-Tetrachloroethane	N/A	µg/l			
Tetrachloroethanes	N/A	µg/l			
Tetrachloroethylene	N/A	µg/l			
Toluene	N/A	µg/l			
1,1,1-Trichloroethane	N/A	µg/l			
1,1,2-Trichloroethane	N/A	µg/l			
Trichloroethylene	N/A	µg/l			
Vinyl chloride	N/A	µg/l			

h. Others

Other Parameter	Test Result	Units	Test Method	Method Detection Limit	HAR, §11-54-04(b)(3)
Chlorine	N/A	µg/l			
Cyanide	N/A	µg/l			
Dioxin	N/A	µg/l			
Polychlorinated biphenyls	N/A	µg/l			

F.8. Hydrotesting Best Management Practices (BMPs) Plan (see Guidelines for CWB NOI Form F - Note 8)

Attach Hydrotesting BMPs Plan on separate sheets with reference to Item F.8. The Hydrotesting BMP Plan shall ensure that the hydrotesting water discharge will meet the conditions of the General Permit, basic water quality criteria, and applicable specific water quality parameters. List good housekeeping measures and BMPs that shall be performed to minimize pollutants entering State waters.

☒

The Hydrotesting BMP Plan is submitted as an attachment to the CWB NOI Form F.  
***See Section 4, Hydrotesting Discharge General BMPs Plan***

☐

The Hydrotesting BMP Plan will be submitted 30 days before the start of construction activities.

F.9. Additional Information (see Guidelines for CWB NOI Form F - Note 9)

**See Section 5, Construction Drawings.**

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**Apoha Aquarium Figure 1**  
**Island of Oahu and Vicinity Map**  
**CWB-NOI Form F, Item No. F.1.a.i. and ii.**



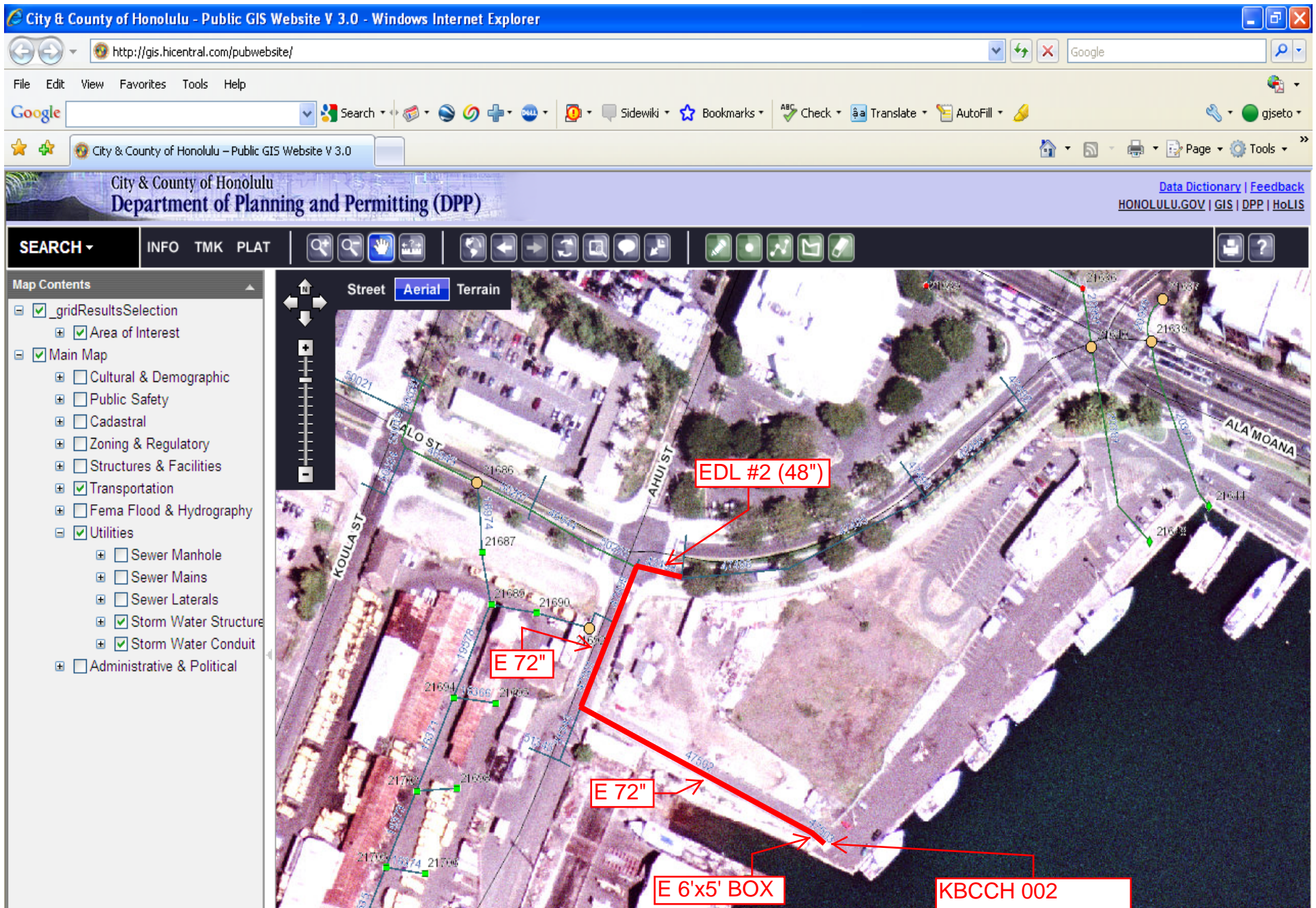




**Apoha Aquarium Figure 4**  
**Discharge Points, Receiving State Waters Map**  
**CWB-NOI Form F, Item No. F.1.b.ii.**







Apoha Aquarium Figure 5  
Receiving State waters & storm water drainage system  
CWB-NOI Form F, Item No. F.1.b.iii.

## HYDROTESTING WATER FLOW CHART

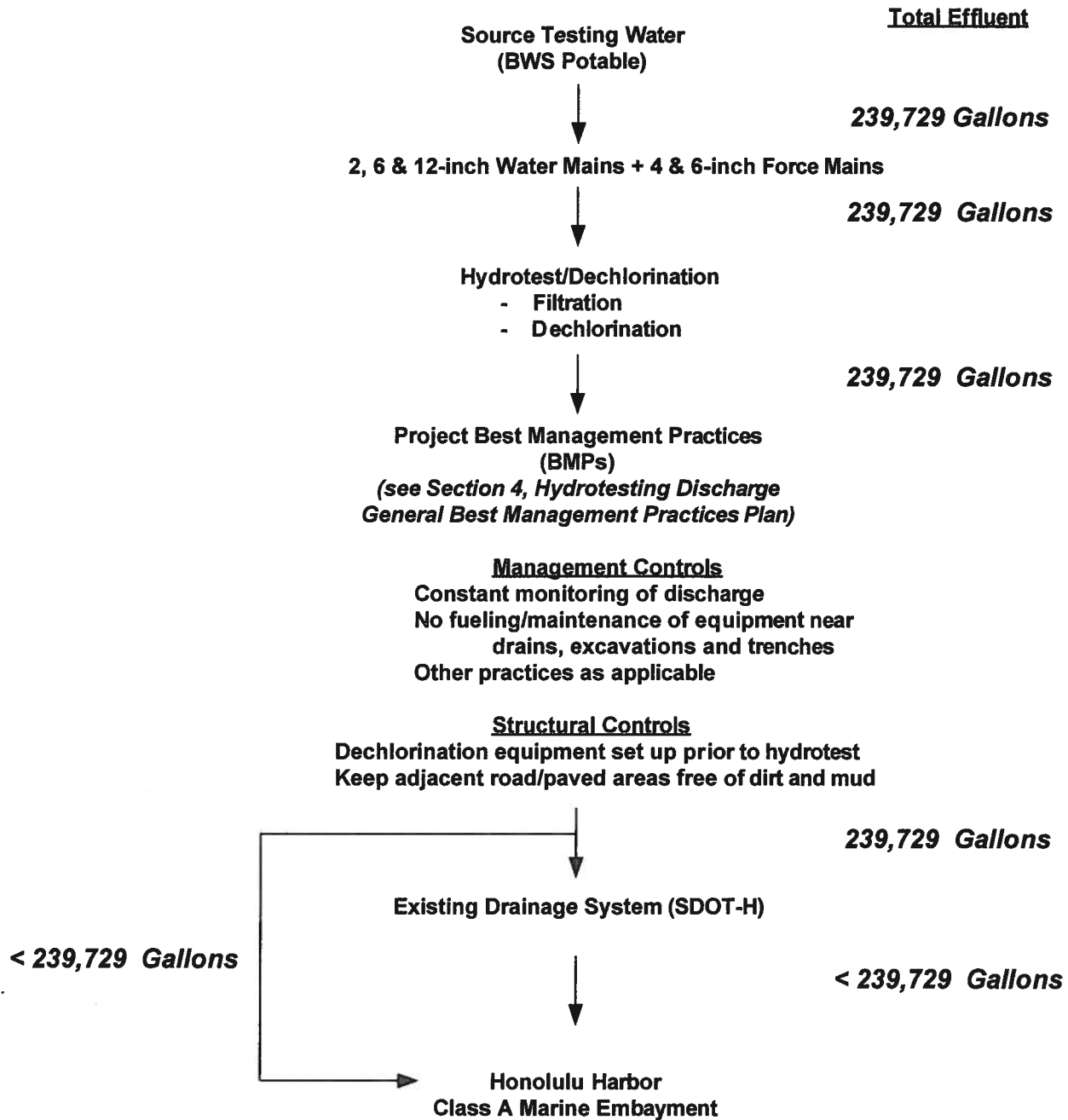


FIGURE 2  
HYDROTESTING WATER FLOW CHART

The water serving 739 North Nimitz Hwy  
The water quality monitoring results are presented below.

has been tested and meets all Federal and State standards.

The water sources serving this address are:

Source Name	Origin of Water	Treatment	Region
a) Kalauao Wells	Groundwater	Chlorination	1
b) Punanani Wells	Groundwater	Chlorination	1
c) Waipahu Wells I	Groundwater	Chlorination, GAC	3
d) Waipahu Wells IV	Groundwater	Chlorination, GAC	3

#### Source Water Monitoring

The substances detected in these sources are shown below. If a substance is not shown then it was not detected.

#### Regulated Contaminants (1)

Contaminant	Sample Year	Unit	Average	Range Minimum Maximum	MCL (Allowed)	MCLG (Goal)	Found in Sources
1,2,3-Trichloropropane	2007	ppb	0.035	ND 0.310	0.600	0.000	c
Nitrate	2007	ppm	2.900	ND 2.900	10.000	10.000	All Sources
Barium	2005	ppm	0.010	ND 0.021	2.000	2.000	a

#### Definitions:

MCL	Maximum Contaminant Level. The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
MCLG	Maximum Contaminant Level Goal. The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
GAC	Granular Activated Carbon Filtration
Action Level	The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
CFU/100ml	Colony forming units per 100 milliliter
mrem/yr	Millirems Per Year (A Measure of Radiation)
pCi/L	Picocuries Per Liter (A Measure of Radioactivity)
ppb	Parts Per Billion or Micrograms Per Liter
ppm	Parts Per Million or Milligrams Per Liter
ppt	Parts Per Trillion or Nanograms Per Liter
NQ	Not Quantifiable (<means "less than")
NYA	Not Yet Available
N/A	Not Applicable
ND	Not Detected
*	EPA considers 50 pCi/L to be the level of concern for beta particles
(1)	Analysis by the State of Hawaii Department of Health.
(2)	Analysis by the Honolulu Board Of Water Supply. Questions, call 808-748-5370.

#### Unregulated Contaminants (Do not have designated maximum limits but require monitoring)

Contaminant	Tested By	Sample Year	Unit	Average	Range Minimum Maximum	Action Level	Found in Sources
Sulfate	(1)	2007	ppm	18.000	ND 19.000	250 **	All Sources

\*\* Secondary Maximum Contaminant Levels (SMCLs) are standards established as guidelines to assist public water systems in managing the aesthetic quality (taste, odor and color) of drinking water. EPA does not enforce SMCLs.

#### Distribution System Monitoring

##### Disinfection By-Products (1)

System Name	Contaminant	Unit	Average	Range Minimum Maximum	MCL (Allowed)	MCLG (Goal)
Honolulu-Windward-Pearl Harbor	Bromoform	ppb	0.871	ND 2.700	NYA	0
Honolulu-Windward-Pearl Harbor	HAA5 [Total Haloacetic Acid]	ppb	0.121	ND 1.200	60.000	N/A
Honolulu-Windward-Pearl Harbor	THMS [Total Trihalomethanes]	ppb	0.871	ND 2.700	80.000	N/A

##### Microbial Contaminants (2)

System Name	Contaminant	Unit	Found	MCL(Allowed)	MCLG (Goal)	Violation	Source of Contaminant
Honolulu-Windward-Pearl Harbor	Total Coliform	% of positive samples	1.11 ***	5%	0	No	Naturally present in the environment
Honolulu-Windward-Pearl Harbor	Fecal Coliform	Pos/Neg	1 positive sample	No repeat samples with positive fecal coliform	0	No	Human and animal fecal waste
Honolulu-Windward-Pearl Harbor	Number of positive fecal coliform repeat samples		none			No	

\*\*\*Highest monthly percentage of positive samples

##### Lead/Copper Testing (2)

Contaminant	Sample Year	Unit	90th Percentile Reading	Action Level	# Samples Above Action Level
Copper	2006	ppm	0.060	1.300	0
Lead	2006	ppb	1.200	15.000	0

NO VIOLATIONS FOUND FOR CALENDAR YEAR 2007

## **Hydrotesting Discharge General Best Management Practices (BMPs) Plan**



### **INTRODUCTION**

This Hydrotesting Discharge BMPs Plan addresses handling of hydrotesting effluent associated with installation of water lines and a sewer force main as part of the construction of improvements  Honolulu, Oahu, Hawaii. Information contained in this document address requirements of the CWB-NOI Form F, Item F.8.

### **Hydrotesting Discharge BMPs for Water Main Installation**

#### **i. Operating and Maintenance Procedures for Treatment Systems**

Disinfection discharges shall cease or rate of discharge reduced if dechlorination cannot be achieved. The dechlorination system shall be constantly monitored to insure the proper proportion of *sodium thiosulfate* to chlorination is achieved. As required, the system used to provide water shall also be monitored to insure against malfunction.

#### **ii. Operating and Maintenance Procedures for Filtration Systems**

Geotextile filter fabric that allows water to flow through while preventing soil particles up to # 70 sieve size will be used for filtration. All discharges from the water mains will be passed through the filter system (**Figure 4, Filter System**) to remove suspended solids or foreign particles. Discharge from the filter system that is not used on-site for dust control will be directed into flexible or rigid piping to allow for direct discharge into Honolulu Harbor (State waters) or discharge into existing drainage inlets that ultimately empty into Honolulu Harbor.

Flushing discharges shall cease or the rate of discharge reduced if adequate filtration cannot be achieved. The contractor shall monitor the filtration system for clogging of filter medium. Filters shall be replaced immediately upon failure of the primary filter.

#### **iii. Hydrotesting Effluent Monitoring Procedures**

1. The contractor shall conduct frequent visual inspection during effluent discharge to ensure against changes in turbidity, color and odor. If physical changes are observed, discharges shall be terminated until appropriate modifications/corrections to the treatment system are in place.



2. Representative samples for chlorine shall be collected prior to entering receiving waters. Chlorine residual shall be measured by standard DPD kits and Color Comparators.
3. Effluent type and quality: Hydrotesting source is potable water from BWS' Kalauao, Punanani, and Waipahu I & IV Wells. Chlorination will be up to 50 mg/l depending on the level of need for disinfection. The disinfected effluent shall be dechlorinated to acceptable levels in accordance with Hawaii Administrative Rules (HAR), chapter 11-54, Water Quality Standards.
4. Should unforeseen conditions result in release of chlorine levels exceeding allowable standards of HAR 11-54, the following measures will be employed:
  - a) All chlorination and discharges of hydrotesting effluent will be terminated. The contractor will be responsible for notifying DOH, Clean Water Branch, at (808) 586-4309.
  - b) The hydrotesting and chlorination/dechlorination procedures will be reviewed to correct the situation resulting in the release; and
  - c) Upon satisfactory review and repair of equipment and procedures, DOH will be notified and work activities will resume.

Additional methods, measures, or controls shall be submitted by the contractor as part of the Site-Specific Hydrotesting Best Management Practices (BMPs) Plan.

### **Good Housekeeping Practices**

1. All interior surfaces of the water pipes are to be kept free of dirt and debris during installation. The end of the pipe is to be capped at the end of each work day with a cap sufficient to prevent groundwater, dirt, debris, or other foreign substances from entering the pipe. Initial flushing is to be filtered prior to discharge to ensure removal of sediments accumulated during construction.
2. The hydrotesting contractor is to set up chlorination equipment and exercise operating procedures in accordance with safe engineering practices.
3. The hydrotesting contractor is to have the dechlorination equipment set up prior to start up. This will ensure that should the water main require immediate evacuation of effluent, that the dechlorination equipment will be mobilized and available.
4. Vehicles and equipment will be cleaned before moving to another location and the paved surface will be swept clean.

5. Fueling and maintenance of equipment and vehicles in the vicinity of open drains, excavations and trenches are prohibited. All servicing will be performed in areas away from the construction site where fuel and oil spills can be contained.
6. Existing roads that have been tracked with mud or dirt shall be cleaned immediately by sweeping. Flushing of roads may be performed only if the runoff can be contained on site.

#### **Site-Specific Hydrotesting Best Management Practices (BMPs) Plan**

Additional controls to be included in the Site-Specific Hydrotesting BMPs shall be as required by DOH, Clean Water Branch, in the project notice of permit approval.

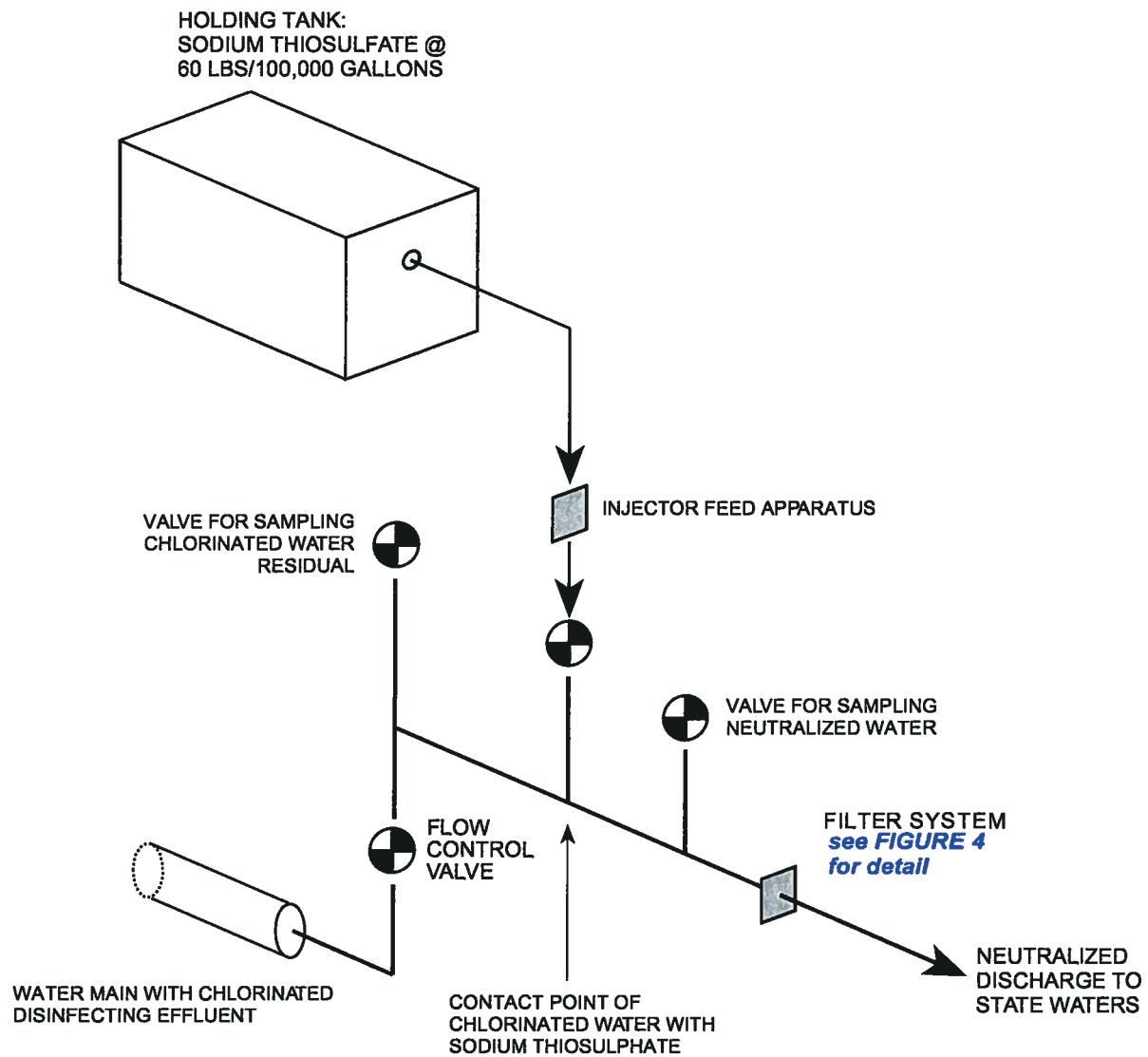
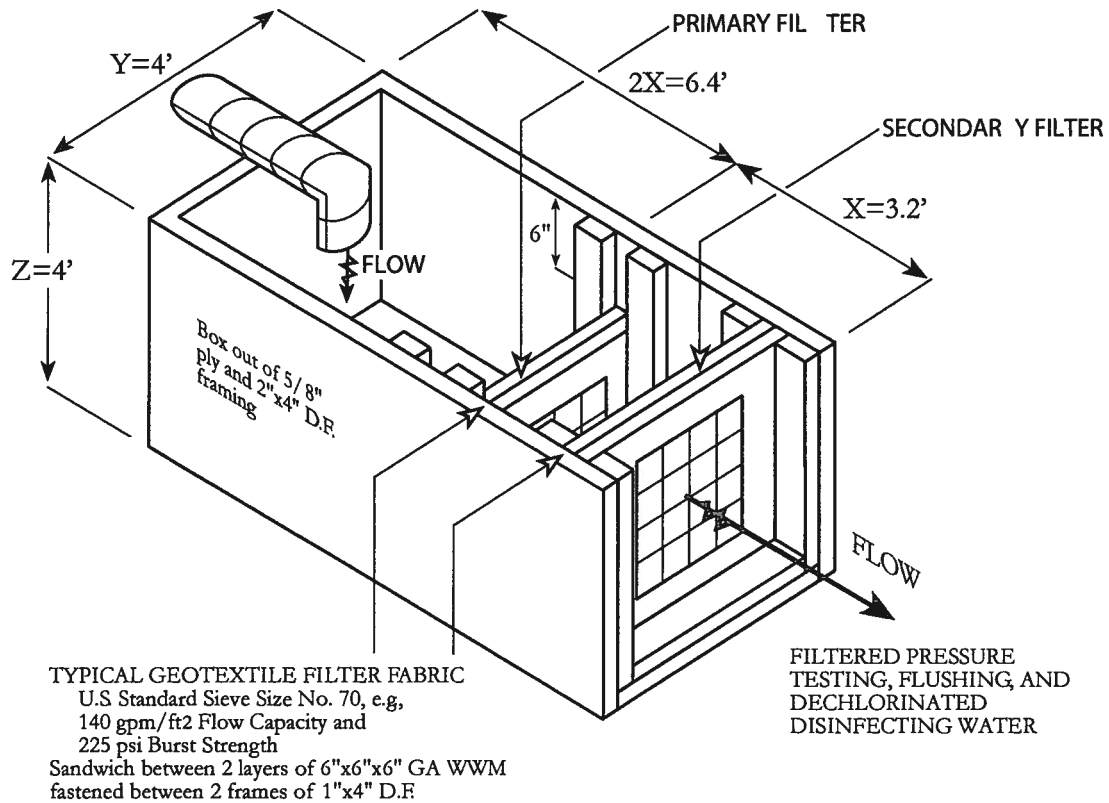


FIGURE 3  
HYDROTESTING SEQUENCE





NOTES:

- 1) Minimum filter area shall equal two times the discharge flow rate divided by allowable geotextile fabric flow rate, or  $(2 \times 600 \text{ gpm}) / 140 \text{ gpm/ft}^2 = 8.57 \text{ ft}^2$ .
- 2) Proposed design assumes overall filter efficiency rate of approximately 50% due to clogging and degradation of performance, where the area of filter fabric required to achieve 100% =  $8.57 \text{ ft}^2 \times 2 = 17.14 \text{ ft}^2$ .
- 3) Proposed design provides storage of +2-minutes of retention or 1,197 gallons, where:  
 $Z(4') \times Y(4') \times 2X(6.4') = 160 \text{ ft}^3$ ; and  
 $160 \text{ ft}^3 \times 7.48 \text{ gallons/ft}^3 = 1,197 \text{ gallons}$ .
- 4) X, Y, and Z dimensions, materials specifications, and product brand names, as applicable, may be subject to change based on requirements of the State Department of Transportation, the Board of Water Supply and the State Department Health, Clean Water Branch.
- 5) As required, two or more filter boxes shall be employed to accomplish hydrotesting.

FIGURE 4  
FILTER SYSTEM



# CWB NOI General Form for Appendix G

Previously assigned  
NGPC File No  
(for renewal NOI only): HI \_\_\_\_\_

Automatic  
Coverage  
(for New NOI  
only)

☐  
☒

I elect to **claim** automatic coverage  
per HAR, Section 11-55-34.09(f).  
I elect to **waive** automatic coverage  
per HAR, Section 11-55-34.09(g).

## 1. Owner Information

Owner Legal Name State of Hawaii

Owner Department Department of Health

Owner Division Environmental Management Division, Clean Water Branch

Owner Mailing Address P.O. Box 3378

Owner Mailing City Honolulu Owner Mailing State HI Owner Mailing Zip+4 96801-3378

Owner Street Address 919 Ala Moana Boulevard, Room 301

Owner City Honolulu Owner State HI Owner Zip+4 96814-4920

Owner Contact Person First Name Apoha Owner Contact Person Last Name O'opu

Owner Contact Person Position Title Fish Chief

Owner Phone No 808 586-4309 Owner Fax No 808 586-4352

Owner Contact Person Email CleanWaterBranch@doh.hawaii.gov

2. Owner Type Industrial

Options for Owner Type:

Industrial - Private Facility or Project  
Municipal - City, County, or State Government Facility or Project  
Federal - Federal Government Facility or Project  
MS4 - Municipal Separate Storm Sewer System

## 3. Operator or General Contractor Information

☒ For CWB-NOI Forms C, F, G, and I only  
The general contractor information will be submitted at least 30 calendar days before the start of construction activities.

Operator Legal Name \_\_\_\_\_

Operator Department \_\_\_\_\_

Operator Division \_\_\_\_\_

Operator Mailing Address \_\_\_\_\_

Operator Mailing City \_\_\_\_\_ Oper. Mailing State HI Operator Mailing Zip+4 \_\_\_\_\_

Operator Street Address \_\_\_\_\_

Operator City \_\_\_\_\_ Operator State HI Operator Zip+4 \_\_\_\_\_

Operator Contact Person First Name \_\_\_\_\_ Oper. Contact Person Last Name \_\_\_\_\_

Operator Contact Person Position Title \_\_\_\_\_

Operator Phone No \_\_\_\_\_ Operator Fax No \_\_\_\_\_

Operator Contact Person Email \_\_\_\_\_

#### 4. Facility or Project Information

Facility Legal Name Apoha Aquarium

Facility Mailing Address P.O. Box 3378

Facility Mailing City Honolulu Facility Mailing State HI Facility Mailing Zip+4 96801-3378

Facility Street Address Southeast Corner of Ward Avenue and Ahui Street

Facility City Honolulu Facility State HI Facility Zip+4 96814-0000

Facility Contact Person First Name Apoha Facility Contact Person Last Name O`opu

Facility Contact Person Position Title Fish Chief

Facility Phone No 808 586-4309 Facility Fax No 808 586-4352

Facility Contact Person Email CleanWaterBranch@doh.hawaii.gov

Island of Facility Oahu If there are multiple Plat and/or Parcel Numbers, please separate them with semi-colons.  
If there are more Tax Map Keys (TMKs), please attach a separate sheet.

TMK Division	Zone	Section	Plat	Parcel or Lot
(1)	2	1	058; 123	095 (portion)

#### 5. Receiving State Water(s) Information

5.a. Number of Receiving State Waters 1

5.a.i. Receiving Waters Name Kewalo Basin

Receiving Waters Classification A, Embayment

Latitude Degrees (N)	<u>021</u>	Latitude Minutes	<u>17</u>	Latitude Seconds	<u>37</u>
Longitude Degrees (W)	<u>157</u>	Longitude Minutes	<u>51</u>	Longitude Seconds	<u>31</u>

5.a.ii. Additional Receiving Waters Name \_\_\_\_\_

Receiving Waters Classification A, Embayment

Latitude Degrees (N)	_____	Latitude Minutes	_____	Latitude Seconds	_____
Longitude Degrees (W)	_____	Longitude Minutes	_____	Longitude Seconds	_____

5.a.iii. Additional Receiving Waters Name \_\_\_\_\_

Receiving Waters Classification A, Embayment

Latitude Degrees (N)	_____	Latitude Minutes	_____	Latitude Seconds	_____
Longitude Degrees (W)	_____	Longitude Minutes	_____	Longitude Seconds	_____

5.b. Receiving Separate Drainage System - Complete the following if the discharge from your facility or project first enters a separate storm drainage system (e.g., City and County of Honolulu Municipal Separate Storm Sewer System [MS4] , etc.)

Separate Drainage System Owner Name Hawaii Community Development Authority (HCDA) Small MS4

Latitude Degrees (N)	<u>021</u>	Latitude Minutes	<u>17</u>	Latitude Seconds	<u>39</u>
Longitude Degrees (W)	<u>157</u>	Longitude Minutes	<u>51</u>	Longitude Seconds	<u>34</u>

- ☐ Drainage System Owner Approval to Discharge is attached.
- ☒ The request to the Drainage System Owner for Approval to Discharge is attached. The Approval to Discharge will be submitted at least 30 calendar days before the start of construction activities or discharge, whichever is sooner.

**6. Authorized Representative Information** - Select authorization under A or B or C or A & C or D. Do not select A & B or B & C - this will cause a delay in the issuance of the NGPC.

- ☐ A. This statement authorizes the named individual or any individual occupying the named position of the company/organization listed below to act as our representative to submit information/documents necessary to complete the CWB NOI Form for coverage under the NPDES general permit to discharge to State waters from the subject facility. The Owner hereby agrees to comply with and be responsible for all NGPC conditions.
- ☒ B. This statement authorizes the named individual or any individual occupying the named position of the company/organization listed below to act as our representative to submit information/documents necessary to complete the CWB NOI Form for coverage under the NPDES general permit to discharge to State waters from the subject facility. Our representative is further authorized to submit information/documents for compliance with the NGPC conditions, except submittal of the CWB NOC Form. The Owner hereby agrees to comply with and be responsible for all NGPC conditions.

Representative Company/Organization Name State of Hawaii

Representative Department Department of Health

Representative Division Environmental Management Div., Clean Water Branch

Representative Mailing Address P.O. Box 3378

Rep. Mailing City Honolulu Rep. Mailing State HI Rep. Mailing Zip+4 96801-3378

Representative Street Address 919 Ala Moana Boulevard, Room 301

Representative City Honolulu Rep. State HI Representative Zip+4 96814-4920

Representative First Name Alec Representative Last Name Wong, P.E.

Representative Position Title Branch Chief

Representative Phone No 808 586-4309 Representative Fax No 808 586-4352

Representative Contact Person Email alec.wong@:-)

- ☐ C. This statement authorizes the named individual or any individual occupying the named position of the company/organization listed below to act as our representative to submit information/documents for compliance with the NGPC conditions, except submittal of the CWB NOC Form. The Owner hereby agrees to comply with and be responsible for all NGPC Conditions.
- ☐ D. A separate authorization statement is attached, specifying the limited authorization of the representative.

Representative Company/Organization Name \_\_\_\_\_

Representative Department \_\_\_\_\_

Representative Division \_\_\_\_\_

Representative Mailing Address \_\_\_\_\_

Rep. Mailing City \_\_\_\_\_ Rep. Mailing State HI Rep. Mailing Zip+4 \_\_\_\_\_

Representative Street Address \_\_\_\_\_

Representative City \_\_\_\_\_ Rep. State HI Representative Zip+4 \_\_\_\_\_

Representative First Name \_\_\_\_\_ Representative Last Name \_\_\_\_\_

Representative Position Title \_\_\_\_\_

Representative Phone No \_\_\_\_\_ Representative Fax No \_\_\_\_\_

Representative Contact Person Email \_\_\_\_\_

**7. Certification** - Alteration of this item will result in the invalidation of this CWB-NOI Form submittal. **The person certifying this CWB-NOI Form must meet one of the following descriptions and be employed by the owner or be an administrator of the sole proprietorship, trust, or LLC listed in Item 1.**

<input checked="" type="radio"/>	I certify that for a state agency, I am a principal executive officer or ranking elected official.
<input type="radio"/>	I certify that for a municipal agency, I am a principal executive officer or ranking elected official.
<input type="radio"/>	I certify that for a non-federal public agency, I am a principal executive officer or ranking elected official.
<input type="radio"/>	I certify that for a federal agency, I am the chief executive officer of the agency, or I am the senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.
<input type="radio"/>	I certify that I am a general partner for a partnership.
<input type="radio"/>	I certify that for a corporation, I am the President, Vice President, Secretary, or Treasurer of the corporation and in charge of a principal business function, or I perform similar policy or decision-making functions for the corporation.
<input type="radio"/>	I certify that I am the proprietor for a sole proprietorship.
<input type="radio"/>	I certify that for a corporation, I am the Manager of one or more manufacturing, production, or operating facilities and am authorized to make management decisions which govern the operation of the regulated facility or facilities including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations. I can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements and authority to sign documents has been assigned or delegated to me in accordance with corporate procedures.
<input type="radio"/>	I certify that for a trust, I am a trustee.
<input type="radio"/>	I certify that for a limited liability company (LLC), I am the Manager or a Member authorized to make management decisions for the LLC and am in charge of a principal business function, or I perform similar policy or decision-making functions for the LLC.

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 8/3/2010

Certifying Person First Name Chiyome Leinaala Certifying Person Last Name Fukino, M.D.

Certifying Person Position Title Director

Certifying Person's Company or Agency State of Hawaii

Certifying Department Department of Health

Certifying Division Environmental Management Division, Clean Water Branch

Certifying Phone No 808 586-4410 Certifying Fax No 808 586-4444

Certifying Person Email TheDirectorOfHealth@:-)

For facilities/projects on the island of Oahu, submit one (1) copy of the CWB NOI General Form, applicable discharge form (e.g., CWB NOI Form C), and supporting documents with the certifying person's original signature and \$500 Filing Fee.  
 For facilities/projects on the island of Hawaii, submit three (3) copies of the CWB NOI General Form, applicable discharge form (e.g., CWB NOI Form C), and supporting documents. One copy of the CWB NOI General Form shall include the certifying person's original signature and \$500 Filing Fee.  
 For facilities/projects located on islands other than Oahu and Hawaii, submit two (2) copies of the CWB NOI General Form, applicable discharge form (e.g., CWB NOI Form C), and supporting documents. One copy of the CWB NOI General Form shall include the certifying person's original signature and \$500 Filing Fee.

Submit by Email

Print Form

Date: December 19, 2007

Director  
Department of Planning and Permitting  
City and County of Honolulu  
650 South King Street, HMB, 7th Floor  
Honolulu, Hawaii 96813

Dear Madam/Sir:

Subject: Application for a Construction Dewatering Permit for Discharge into the  
City and County Separate Storm Sewer System

Pursuant to Section 14-17.3(c), Revised Ordinance of Honolulu 1990, as amended, applicant hereby requests a construction dewatering permit to discharge into the City and County separate storm sewer system. The pertinent information is as follows (please print):

Name or Entity of Applicant: City and County of Honolulu Department of Environmental Services

Street Address of Applicant: 1000 Uluohia Street, Suite 308, Kapolei, HI 96707-2040

Location of Site:

Tax Map Key of Site: (1)-1-6-002; 004; 005; 006; 023; 0000 (No lots-roadway)

**Brief Description of Effluent and Dewatering Operation:**

Effluent Type and Quality Dewatering from sewer line work, slightly turbid

Rate of Discharge into the Storm Sewer System 0.31 gpm maximum

Method of Discharge Pump to storm drain outlet closest to trenching work

Location of the Point of Discharge into the City Storm Sewer System Refer to Attachment 1A

Estimated Date when Discharge will begin February 2008

Estimated Duration of Discharge Eight months

Estimated Date when Discharge will be Completed October 2008



Hours of Operation 7:00 am to 5:00 pm

Method of Treatment or Best Management Practice(s) to meet State Water Quality Standards as identified in Section 11-54-4, Hawaii Administrative Rules \_\_\_\_\_

Refer to BMPs included as an attachment to the NPDES Form G

Construction dewatering operations require a National Pollutant Discharge Elimination System (NPDES) general permit from the State Department of Health. If the effluent contains any other pollutant(s) in the groundwater, another NPDES permit may be required from the State Department of Health for the discharge of that pollutant(s) into waters of the State through the municipal separate storm sewer system. A copy of the NPDES permit or Notice of General Permit Coverage including effluent limitation if any shall be available at the location of the site.

**Contact Person**

Name:

Title:

Address:

Telephone Number:

Very truly yours,



Owner or Contractor (Signature)

Director

Title

Eric Takamura

Print Name



DEPARTMENT OF PLANNING AND PERMITTING  
**CITY AND COUNTY OF HONOLULU**

650 SOUTH KING STREET \* HONOLULU, HAWAII 96813  
Phone: (808) 523-4968 \* Fax: (808) 527-6743

2008 APR 16 2:09PM

## CONSTRUCTION DEWATERING PERMIT

Dear Madam/Sir:

Subject: Construction Dewatering Permit to Discharge Groundwater into Municipal Separate Storm Sewer System  
Project:   
Tax Map Key:   
Address:

We, the undersigned, hereby agree to the following:

1. That we shall indemnify and hold the City and County of Honolulu free and harmless from all suits and actions resulting from our operations.
2. That we shall provide appropriate best management practices and/or treatment for the removal of floatable and settleable solids, soil particles, and/or other pollutant(s) in the discharge, and such discharge shall meet the receiving water limitations in Part B of the City NPDES permit and the basic water quality criteria applicable to all waters as identified in Section 11-54-4, and/or any other applicable sections in Chapter 11-54, Hawaii Administrative Rules, at the point of discharge into State waters.
3. That we shall obtain a National Pollutant Discharge Elimination System (NPDES) permit as required by the State Department of Health and perform any effluent monitoring as required.
4. That a copy of any effluent monitoring required by our NPDES permit will be furnished to the City.
5. That we shall remove the temporary line after completion of dewatering work and make all restorations to any City property damaged by our operation according to City requirements.
6. That we shall discontinue the discharge should the State Department of Health or the Site Development Division determine that the receiving waters are being polluted, or the discharge exceeds the receiving water limitations in Part B of the City NPDES permit, or the discharge does not meet the effluent requirements of our NPDES permit, or our operations are not in the best interest of the general public.
7. That if the City determines that any materials or substances from our dewatering operations have settled into any storm sewer, we shall immediately remove and clear any material or substance to the satisfaction of the City.
8. That we shall notify the Department of Planning and Permitting, City and County of Honolulu, at least 72 hours before commencing work and at the conclusion of the dewatering operation to arrange for necessary inspectional services at telephone: 523-4881.
9. That we understand that we are responsible to ensure that anyone working under this permit understands the terms and conditions of the permit.
10. This permit will take effect on the date the Director of Planning and Permitting approves the permit. This permit will expire at midnight **October 31, 2008** or when amendments to the City NPDES permit are adopted.
11. Additional conditions: **Detailed dewatering plan shall be submitted to the Department of Planning and Permitting before the start of dewatering operations.**

The permittee understands that the capacity(ies) of the existing City-owned storm drainage system(s) to be used for the dewatering operation are limited and may be affected by tidal waters.

The permittee understands that water surface elevation (freeboard) throughout the system(s) shall not be less than twelve (12) inches below ground elevation at all times during the dewatering operation.

The permittee understands that the City-owned storm drainage systems were designed and constructed for the purpose of conveying storm water runoff within the drainage basin and the use of such systems for dewatering discharges is a convenience granted to the permittee; therefore, the permittee shall limit the discharge of the dewatering operation to acceptable limits to meet the freeboard criterion imposed as a condition of the permit by:

- a. Monitoring water levels in designated storm drain manholes (SDMH) daily when the diurnal tidal waters are at its highest level and record the depth of the water level in reference to the top of the SDMHs..
- b. Reducing the dewatering discharge to acceptable rates to meet the 12-inch freeboard criterion.
- c. Terminating the dewatering operation during period(s) of heavy precipitation, or reduce the discharge rate to prevent flooding when the street curbs in the watershed are about to be submerged or existing properties are threatened due to flooding.

Approval Recommended:

Very truly yours,

Meloni Yokoyama 4/16/08  
Chief, Civil Engineering Branch  
Approved: [Signature]

Wesley J. Yokoyama 4/17/08  
Signature of Owner  
Print Name: **YOKOYAMA, WESLEY**  
**Takamura, Eric Director.** BRANCH HEAD  
Title: **Director CONSTRUCTION BRANCH**  
Company or Agency: **DEPARTMENT OF ENVIRONMENTAL & DESIGN & CONSTRUCTION**  
Telephone No.:

M. J. [Signature] 4/11/08  
Director, Department of Planning and Permitting  
Date

Construction Data:

Work started: \_\_\_\_\_

Work completed: \_\_\_\_\_

C and C Inspector: \_\_\_\_\_

Attach: Construction Dewatering (3 sets)

PERMIT NUMBER  
**SWP2008-01-0003**

27591249

027591249-001





State of Hawaii, Department of Health,  
Clean Water Branch

**CWB NOI Form G**

**Previously Assigned  
NGPC File No.**  
(for renewal NOI only):  
**HI**

**Notice of Intent for HAR, Chapter 11-55, Appendix G - NPDES General  
Permit Coverage Authorizing Discharges Associated With  
Construction Activity Dewatering**

Before completing this form, read the *General Guidelines for NOI Forms B through L and Guidelines for CWB NOI Form G*. Alteration of the text in this form may delay the processing of this submittal.

**G.1. Dewatering Discharge Information (see Guidelines for CWB NOI Form G - Note 1)**

**Refer to Attachment 1, Dewatering and Sedimentation Calculations**

- a. Quantity of Discharge: 62,000 gallons (gallons/million gallons)
- b. Rate of Discharge: 0.31 gpd maximum (cfs/gpd)
- c. Frequency of Discharge (check the appropriate space(s))

**Continuous**

Emergency

**Daily**

Intermittent

**G.2. Location Map (see Guidelines for CWB NOI Form G - Note 2)**

A location map which shows the following is attached:

**Refer to Attachment 2, Location Map**

- i. Island on which the project is located, and
- ii. Location of the project.
- b. A topographic map or maps of the area which clearly show the following is/are attached:

**Refer to Attachments 3, Storm Drain Location Map and 4, Dewatering Location Map**

- i. Legal boundaries of the project,
- ii. Location and identification number of each of the project's existing and/or proposed outfalls or discharge points,
- iii. Receiving State water(s) and receiving storm water drainage system(s), if applicable, identified and labeled, and
- iv. Location(s) where the water quality sample was collected in relation to the proposed project.

**G.3. Flow Chart (see Guidelines for CWB NOI Form G - Note 3)**

A flow chart or line drawing showing the general route taken by the dewatering effluent through the project from intake to the discharge point is attached.

**Refer to Attachment 5, Flow Chart**

G.4. Existing or Pending Permits, Licenses, or Approvals (see Guidelines for CWB NOI Form G - Note 4) **Please refer to Attachment 6, Application for Construction Dewatering Permit for Discharge into City and County Storm drain system.**

Provide the status and corresponding file numbers on any existing or pending environmental permits.

- a. Other NPDES Permit or NGPC File No.: NA
- b. DA Permit: NA
- c. Section 401 WQC: NA
- d. RCRA Permit (Hazardous Wastes): NA
- e. Facility on SARA 313 List (identify SARA 313 chemicals on site):  
NA
- f. Other (Specify): NA

G.5. Site Characterization (see Guidelines for CWB NOI Form G - Note 5)

- a. The history of the land use at the proposed construction site and surrounding area.

In general, the project area has historically been developed for residential use. The southwestern portion of the project area appears, from aerial and topographic maps, to have been used historically for agricultural uses (taro patches and truck garden farms) but not in the areas where dewatering work will be needed. As of 1927, the Kapalama channel was named Niuhelawai Stream. By 1938, a few dozen new structures were mapped along the King Street-extended network of roads. By 1953, the former Niuhelawai Stream had been straightened and was identified as Kapalama Drainage Canal. By 1969, the freeway had been constructed over Vineyard Street along the project site. Adjoining parcels have been used for residences over the past few decades, except for the church indicated in topographic maps near the midpoint of the project site (Attachment 2).

- b. The potential pollutant(s) that may be present and its source(s) at the proposed construction site and surrounding area.

Investigation of the project area's environmental history indicated no known potential pollutants at the project site.

G.6. Project Description (see Guidelines for CWB NOI Form G - Note 6)

**Pertinent sheets of project construction plans have been included as Attachment 7.**

- a. General description of the construction activity, including the quantity of disturbed area (in acres)

This is a City and County of Honolulu sewer project where portions of existing sewer lines will be repaired/replaced and new lines installed. There is approximately 4,400 linear ft of trenching work that will be needed to accommodate sewer line work. Approximately 0.26 acres will be disturbed by trenching activities. (Attachment 7, sheet 6 of 43, drawing C-5)

- b. Portion of the project involving construction dewatering

Approximately 1335 linear feet of sewer line installation will be performed at or below groundwater levels measured during geo-technical investigations performed in 2002 and 2006 at the site. Approximately 30% of the total project area is expected to be dewatered (Attachment 7, sheets 16, 17, & 18, drawings C-15, C-16, C-17).

- c. Construction Schedule

✓ **The final schedule has been included as Attachment 8, Construction schedule.**

- d. The time frame of the proposed discharges (24 hours/day, working hours, etc.)

First 2 months, 24 hours a day

Remaining 6 months: Working hours: M-F, 7:00 a.m. to 5:00 p.m.

G.7. Physical Source Water Quality (see Guidelines for CWB NOI Form G - Note 7)

Check the appropriate column.

Parameter	Believe Present	Believe Absent
Floating Debris		X
Scum or Foam		X
Color		X
Odor		X

G.8. Water Quality Parameters (see Guidelines for CWB NOI Form G - Note 8)

- a. All parameters must be tested and reported. Provide laboratory data sheets in addition to completing the following table.

Parameter	Test Result	Units	Test Method	Method Detection Limit	HAR, §11-54
Total Nitrogen (10 :ug/l)	1220	:ug/l	SM 4500	500 ug/L	250 ug/L
Ammonia Nitrogen (1 :ug/l)	ND	:ug/l	EPA 350.2	100 ug/L	None-Inland

Parameter	Test Result	Units	Test Method	Method Detection Limit	HAR, §11-54
Nitrate + Nitrite (1 :ug/l)	940	:µg/l	EPA 353	50 ug/L	70 ug/L
Total Phosphorus (10 :ug/l)	150	:µg/l	EPA 365	20 ug/L	50 ug/L
Turbidity (0.1 NTU)	23.8	NTU	EPA 180.1	0.05 NTU	5.0 NTU
Total Suspended Solids (1 mg/l)	37.3	mg/l	EPA 160.2	1.0 mg/L	20 mg/L
pH (0.1 standard units)	7.5		EPA 150.1	0.1 units	5.5-8.0
Dissolved Oxygen (0.1 mg/l)	9.9	mg/l	EPA 360.1	0.10 mg/L	None
Oxygen Saturation (1%)	107	%	SM 4500	0.01%	> 80%
Temperature (0.1 EC)	19 C	EC	Field	0.5 C	Ambient ±1
Salinity (0.1 ppt)	4.0	ppt	SM 2520B	1.00 ppt	None
or Chloride (0.1 mg/l)*	1890	mg/l	SM 4500	10 mg/L	None
or Conductivity (1 :umhos/cm)*	56	:umhos/cm	SM 2510B	0.01 mS	300
Oil and Grease (1 mg/l)	8.5	mg/l	EPA 1664	5 mg/L	None

\* Fresh waters and effluent samples

- b. Provide explanation and evaluation of the source water quality data with respect to the applicable specific numeric criteria for the receiving water(s) specified under the HAR, Chapter 11-54.

The criteria for receiving water applies to the receiving water body ( an inland stream),  
Kapalama Drainage Canal. Nutrients (nitrogen and phosphorus), turbidity and total  
suspended solids were reported at concentrations greater than the receiving water criteria  
specified under HAR Ch. 11-54. A groundwater sample was collected on November 9, 2007  
from an open excavated hole adjacent to the canal and near the proposed dewatering area  
(Attachment 4). Because the groundwater sample was collected from an open excavation  
with slow groundwater recharge, we were unable to collect a non-turbid sample. We are  
unaware of the source of the reported nutrients, and no easily identifiable source is  
indicated from knowledge of the site and surrounding area history. The Kapalama Stream  
was listed by EPA/DOH in 2002 and 2004 as an "impaired water" due to nutrients, turbidity  
and trash. [The geographic coordinates for the Kapalama Stream and the Kapalama  
Drainage Canal are the same (Station ID 3-3-10)]. The proposed work addressed by this  
dewatering permit is for sewer line replacements and upgrades the project may improve  
ground water quality and reduce nutrient in this areaand nearby water quality. Elevated turbidity  
and suspended solids values are not anticipated in the actual dewatering effluent because best  
management practices, including filtration, will be conducted during site work.



c. Quality Assurance/Quality Control (QA/QC) and Chain of Custody Documents

**The QA/QC and chain of custody documents are submitted as part of Attachment 9 to CWB NOI Form G.**

If not, explain why:

---



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G.9. Toxic Parameters (see Guidelines for CWB NOI Form G - Note 9 and Glossary of Chemicals in General Guidelines for NOI Forms B through L - Note V)

Provide laboratory data sheets in addition to completing the following tables. In cases when test results are not available at the time of the NOI submission, complete the columns for Test Method, Method Detection Limit, and HAR, §11-54-4(b)(3) for parameters believed to be present. For parameters not believed present, indicate "N/A" for "not applicable" in the Test Result column. If the Test Result column is left blank, the CWB will consider the parameter to be present and test results will be required.

a. Metals

Total Recoverable Metal Parameter	Test Result	Units	Test Method	Method Detection Limit	HAR, §11-54-4(b)(3)
Aluminum	NA	:g/l			
Antimony	NA	:g/l			
Arsenic	NA	:g/l			
Beryllium	NA	:g/l			
Cadmium	NA	:g/l			
Chromium (VI)	NA	:g/l			
Copper	NA	:g/l			
Lead	NA	:g/l			
Mercury	NA	:g/l			
Nickel	NA	:g/l			
Selenium	NA	:g/l			
Silver	NA	:g/l			
Thallium	NA	:g/l			
Tributyltin	NA	:g/l			
Zinc	NA	:g/l			

b. Organonitrogen Compounds

Organonitrogen Compound Parameter	Test Result	Units	Test Method	Method Detection Limit	HAR, §11-54-4(b)(3)
Benzidine	NA	:g/l			
2,4-Dinitro-o-cresol	NA	:g/l			
Dinitrotoluenes	NA	:g/l			
1,2-Diphenylhydrazine	NA	:g/l			
Nitrobenzene	NA	:g/l			
Nitrosamines	NA	:g/l			
N-Nitrosodibutylamine	NA	:g/l			
N-Nitrosodiethylamine	NA	:g/l			
N-Nitrosodimethylamine	NA	:g/l			

Organonitrogen Compound Parameter	Test Result	Units	Test Method	Method Detection Limit	HAR, §11-54-4(b)(3)
N-Nitrosodiphenylamine	NA	:g/l			
N-Nitrosopyrrolidine	NA	:g/l			

c. Pesticides

Pesticide Parameter	Test Result	Units	Test Method	Method Detection Limit	HAR, §11-54-4(b)(3)
Aldrin	NA	:g/l			
Chlordane	NA	:g/l			
Chlorpyrifos	NA	:g/l			
DDT	NA	:g/l			
Demeton	NA	:g/l			
Dieldrin	NA	:g/l			
Endosulfan	NA	:g/l			
Endrin	NA	:g/l			
Guthion	NA	:g/l			
Heptachlor	NA	:g/l			
Lindane	NA	:g/l			
Malathion	NA	:g/l			
Methoxychlor	NA	:g/l			
Mirex	NA	:g/l			
Parathion	NA	:g/l			
TDE - metabolite of DDT	NA	:g/l			
Toxaphene	NA	:g/l			

d. Phenols

Phenol Parameter	Test Result	Units	Test Method	Method Detection Limit	HAR, §11-54-4(b)(3)
2-Chlorophenol	NA	:g/l			
2,4-Dichlorophenol	NA	:g/l			
2,4-Dimethylphenol	NA	:g/l			
Nitrophenols	NA	:g/l			
Pentachlorophenol	NA	:g/l			
Phenol	NA	:g/l			
2,3,5,6-Tetrachlorophenol	NA	:g/l			
2,4,6-Trichlorophenol	NA	:g/l			

e. Phthalates

Phthalate Parameter	Test Result	Units	Test Method	Method Detection Limit	HAR, §11-54-4(b)(3)
Bis (2-ethylhexyl) phthalate	NA	:g/l			
Dibutyl phthalate (esters)	NA	:g/l			
Diethyl phthalate (esters)	NA	:g/l			
Dimethyl phthalate (esters)	NA	:g/l			

f. Polynuclear Aromatic Hydrocarbons



Polynuclear Aromatic Hydrocarbon Parameter	Test Result	Units	Test Method	Method Detection Limit	HAR, §11-54-4(b)(3)
Acenaphthene	NA	:g/l			
Fluoranthene	NA	:g/l			
Naphthalene	NA	:g/l			
Polynuclear aromatic hydrocarbons	NA	:g/l			

g. Volatile Organics

Volatile Organic Parameter	Test Result	Units	Test Method	Method Detection Limit	HAR, §11-54-4(b)(3)
Acrolein	NA	:g/l			
Acrylonitrile	NA	:g/l			
Benzene	NA	:g/l			
Carbon tetrachloride	NA	:g/l			
Bis(2-chloroethyl)ether	NA	:g/l			
Bis(chloroethers-methyl)	NA	:g/l			
Bis(chloroisopropyl)ether	NA	:g/l			
Chloroform	NA	:g/l			
Dichlorobenzenes	NA	:g/l			
Dichlorobenzidine	NA	:g/l			
1,2-Dichloroethane	NA	:g/l			
1,1-Dichloroethylene	NA	:g/l			
Dichloropropanes	NA	:g/l			
1,3-Dichloropropene	NA	:g/l			
Ethylbenzene	NA	:g/l			
Hexachlorobenzene	NA	:g/l			
Hexachlorobutadiene	NA	:g/l			
Hexachlorocyclohexane, alpha	NA	:g/l			
Hexachlorocyclohexane, beta	NA	:g/l			
Hexachlorocyclohexane, technical	NA	:g/l			
Hexachlorocyclopentadiene	NA	:g/l			
Hexachloroethane	NA	:g/l			
Isophorone	NA	:g/l			
Pentachlorobenzene	NA	:g/l			
Pentachloroethanes	NA	:g/l			
1,2,4,5-Tetrachlorobenzene	NA	:g/l			
1,1,2,2-Tetrachloroethane	NA	:g/l			
Tetrachloroethanes	NA	:g/l			
Tetrachloroethylene	NA	:g/l			
Toluene	NA	:g/l			
1,1,1-Trichloroethane	NA	:g/l			
1,1,2-Trichloroethane	NA	:g/l			
Trichloroethylene	NA	:g/l			
Vinyl chloride	NA	:g/l			

h. Others

Other Parameter	Test Result	Units	Test Method	Method Detection Limit	HAR, §11-54-4(b)(3)
Chlorine	NA	:g/l			

Other Parameter	Test Result	Units	Test Method	Method Detection Limit	HAR, §11-54-4(b)(3)
Cyanide	NA	:g/l			
Dioxin	NA	:g/l			
Polychlorinated biphenyls	NA	:g/l			

- i. Provide an explanation addressing the evaluation of the toxic pollutants analyzed and an evaluation of the source water quality data collected with respect to the numeric standards for the toxic pollutants for the receiving water(s) as specified under HAR, Chapter 11-54.

None of the toxic pollutants listed above were tested for because of the site's and surrounding areas' historic residential land use.

G.10. Dewatering Facility Designer Information (see Guidelines for CWB NOI Form G - Note 10)

Legal Name:

Mailing Address:

City, State and Zip Code+4:

Street Address:

City, State and Zip Code+4:

Contact Person & Title:

Phone No.:  Fax No.:

G.11. Treatment Facility Designer Information (see Guidelines for CWB NOI Form G - Note 11)

Legal Name: Same as Above

Mailing Address:

City, State and Zip Code+4:

Street Address:

City, State and Zip Code+4:

Contact Person & Title:

Phone No.: ( )  Fax No.: ( )

G.12. Dewatering Plan (see Guidelines for CWB NOI Form G - Note 12)

- a. Dewatering Plan shall be designed to ensure the discharge will comply with the basic water quality criteria specified under HAR, Chapter 11-54.

- i. The pumping devices to be used, their pumping capacity, and the number of devices to be used

The contractor plans to use (1) 3-inch pump (rated at 300 gpm) to dewater 40 ft. sections of the trench. Pumps will be located inside a metal perforated housing and placed within



a gravel filter pack at the base of the excavation.

ii. Treatment design

Dewatering effluent will be transported to a temporary sedimentation basin, located along the canal (Attachment 4), by using 4" diameter flexible hose run along street edges.

Pre-treatment will consist of the use of filtering devices for pre-treatment (e.g., gravel pack, perforated casing at the inlet to the dewatering pump), and post-treatment (via use of a sedimentation basin or back areas of the excavated trench) prior to discharge into the storm drain system.

iii. Design concerns

Design concerns include the actual turbidity that will be encountered (sampling point was an open excavated hole), the properties of the subsurface soils that will be encountered, and the actual volume and rate of dewatering.

iv. Calculations used in the treatment design

Design calculations are attached providing estimates of dewatering rates and quantities (see Attachment 1). The maximum discharge volume is expected to be 450 gallons per day when dewatering is expected to be performed continuously. If we assume a 50% recharge rate to the subsurface soil beneath the sedimentation basin, we need to allow for treatment of 225 gallons per day. Being overly conservative, 60 cubic feet basin would accommodate 450 gallons, so excavating a temporary sedimentation basin that is 20 feet long, 10 feet wide and 3 feet deep would provide for a volume of 600 cubic feet.

v. Proposed mitigative measures

Should the dewatering treatment not provide sufficient treatment (i.e., dewatering effluent is not of acceptable quality) mitigative measures will be employed. Mitigative measures may include one or a combination of methods such as increasing the size of the sedimentation basin, reducing the length of the open working trench, using back sections of the trench for additional treatment prior to the water entering the sedimentation basin.

**b. The details provided above constitute the Site-Specific Dewatering Plan.**

G.13. Dewatering System Maintenance Plan (see Guidelines for CWB NOI Form G - Note 13)

- a. The dewatering system maintenance plan shall ensure that the dewatering effluent discharge will meet conditions of this General Permit, basic water quality criteria, and applicable specific water quality parameters.

i. Schedule of activities

The anticipated start date is February 2008. Dewatering is expected to begin in February 2008 and run continuously for 2 months, then daily for an additional 6 months.

ii. Operation and maintenance procedure to prevent or reduce the pollution of state water, including:

(1) Responsible field person of the system, by title or name

The responsible field person is Pedro Ibarra, Site Foreman

(2) Operations plan

Excavation will occur in phases, with no more than one of the trenches being dewatered at any given time. Trenches will be excavated below the bottom of trench grade to accommodate pump and gravel filter material. The pump will be housed within perforated casing, which, in combination with the use of a sedimentation basin, will minimize the amount of fine materials in the dewatering effluent.

(3) Maintenance scheduling or action criteria

Maintenance will occur on an as-needed basis, if flow rates decrease or significant amounts of suspended material are detected in the effluent, but is not anticipated to be required.

(4) Maintenance program

Maintenance is not anticipated to be required due to the low flow expected for this small project. Sediment will be removed from the sedimentation basin, if necessary.

(5) Sediment Handling and Disposal Plan

Sediment removal is not anticipated during the project due to the low flow rates. If needed, the contractor will dispose of sediment off-site, following appropriate solid waste regulations. Excavated material will not be subject storm water events and will be tightly controlled. Excavated material will be temporarily stockpiled adjacent to the excavation (concrete surface) until re-used as backfill. Any material not re-used as backfill will be removed from the site on a daily basis in appropriate containers/trucks to prevent tracking or spillage of soil onto roadways or into storm drains.

(6) Monitoring and visual inspection program

Monitoring will be conducted according to the schedule required by the NGPC and using test procedures approved under 40 CFR Part 136, with detection limits sufficiently low to measure compliance. Prior to and during discharge into the storm drains, water in the sedimentation basin will be monitored visually by the responsible field person for any changes in effluent water quality, including turbidity, suspended solids, and petroleum films or sheens. Visual monitoring will consist of inspection of the effluent sample in a clear glass jar and checking for suspended solids and clarity.

(7) Cessation of discharge plan

Discharge will be terminated if daily visual inspections reveal any changes in water quality, including turbidity, suspended solids, and petroleum films or sheens, or if effluent water sampling reveals exceedance of water quality criteria.

(8) Effluent control plan

A sedimentation basin will store the dewatering effluent prior to discharge. Should the water prove to be unsuitable for discharge, dewatering will cease and the dewatering water in the basin will be appropriately disposed of off-site.

iii. Treatment requirements

All dewatering water shall be routed through the sedimentation basin prior to discharge.

Should the dewatering system discharge fail to meet the conditions of this permit,

dewatering shall cease until an alternative treatment system is proposed by the

contractor and approved by the DOH.

**b. The details provided above and details provided in Best Management Practices (submitted as Attachment 10) constitute the Site-Specific Dewatering System Maintenance Plan.**

**G.14. Construction Pollution Prevention Plan (see Guidelines for CWB NOI Form G - Note 14)**

Construction pollution prevention plan to prevent or reduce the pollution of State waters due to other discharges. The construction pollution prevention plan shall include:

a. Prohibited practices,

Dewatering effluent will not be discharged in any manner inconsistent with this or any other

required permits. Should changes in the physical nature of the effluent or chemical

composition, (including contamination) be suspected, discharge shall be ceased. The

responsible field person shall ensure compliance with the conditions of this permit and other

applicable regulations.

b. Other management practices to prevent or reduce the pollution of state waters, and

Dewatering will be pre-screened prior to pumping and clarified in the sedimentation basin.

Effluent from the sedimentation basin will be monitored whenever effluent is discharged. Use

of equipment or chemicals in the excavation that could affect water quality will not be allowed.

c. Practices to control project site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage or stockpiling area(s).

Construction practices will minimize the presence of waste materials. Materials will be stored

at sufficient distance to prevent entrance into open trenches.

**The Site-Specific Construction Pollution Prevention Plan is submitted as Attachment 10, Best Management Practices Plan to CWB NOI Form G.**

G.15. Additional Information (see Guidelines for CWB NOI Form G - Note 15)

None

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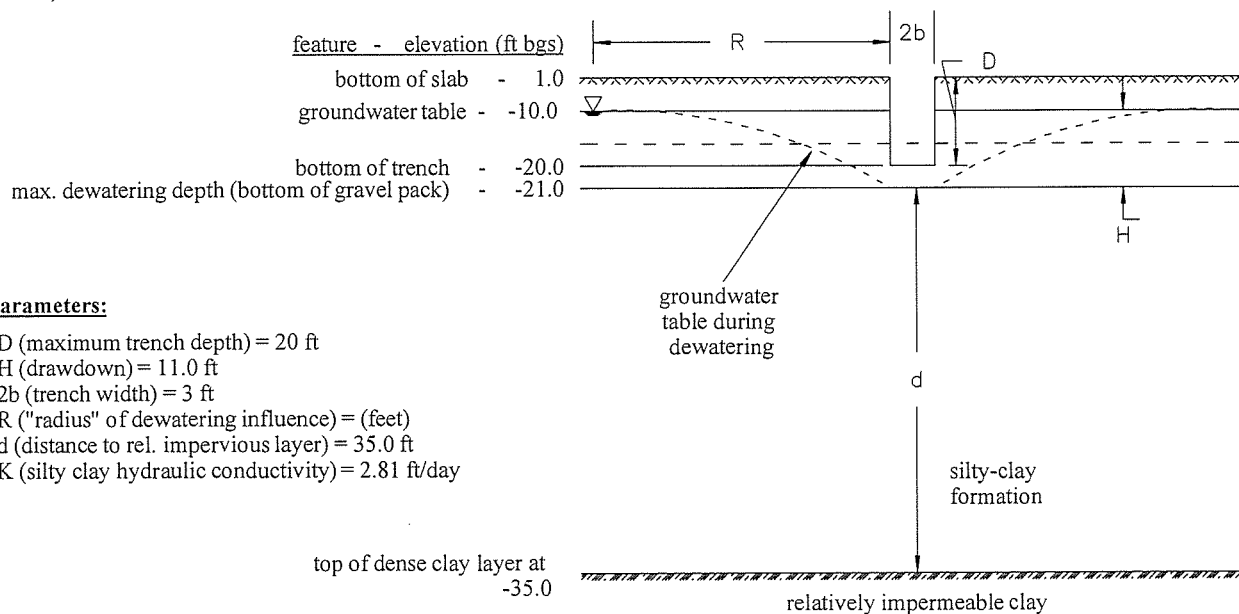
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Data collected during the installation of 13 geotechnical borings and USDA soil survey information were used for these calculations. Data suggests that the water bearing zone is comprised mostly of silts and clays with small amounts of sand and gravel. Deeper zones were dominated with silts and clays. The strata became tighter with depth and as the boring locations became closer to the canal. This is expected, given alluvial sediments expected near a natural bottomed streambed. Soils for the area have been identified as Hanalei silty clays, which are found near stream bottoms and flood plains, are very poorly to poorly drained, have moderate permeability and are a flooding hazard.

Groundwater levels were on average 10 ft. below ground surface (bgs). A dense clay layer identified at approximately 35 ft. bgs is what we are using as our assumed impervious layer. Bgs "elevations" are taken as distances below the street surface.

The design worst case trench has a minimum depth of 6.0 ft bgs and a maximum depth of 20 ft bgs. For conservative design, we will calculate based on an extra foot of dewatering at the trench bottom, to allow for a trench gravel filter pack for the pumps, as called for in the BMP Plan. Additionally, and also for conservative design, we calculate as if the entire trench was at its maximum depth of 21 ft bgs.

Therefore, the dewatering schematic, and primary parameters, based on a conservative representation of the worst case trench, is as follows.



Note: We have assigned a conservative hydraulic conductivity value (K) from various literature sources of 10E-4 cm/s (2.8E-1 ft./day) for the silty clay soils in the water bearing zone of the proposed trenches.

We solve for the flow rate using the section "Pumping from an Open Excavation" from Groundwater Engineering, by Harris, 1983.

For an open trench sump in an unconfined aquifer above an impermeable stratum:

### Radius of Influence:

The following empirical equation is used to estimate the "radius" of influence (Harris, 1983):

$$R = (0.61)H\sqrt{KH} = (0.61)(11.0 \text{ ft})\sqrt{(0.2808 \text{ ft/day})(11.0 \text{ ft})} = 11.80 \text{ ft}$$

(which is a reasonable estimate)

## Attachment 1 Dewatering and Sedimentation Calculations

Project:

Approve

Drawn:

Date: D

page

### Discharge:

The instantaneous discharge per unit length of the trench is given by:

$$q = \frac{KH}{2} \left[ \frac{H}{R} + \frac{\pi}{\exp\left(\frac{d}{\pi b}\right) + \frac{\pi R}{2d}} \right] = \frac{(0.2808)(11.0)}{2} \left[ \frac{11.0}{11.88} + \frac{\pi}{\exp\left(\frac{35.0}{\pi(1.5)}\right) + \frac{\pi(11.80)}{2(35.0)}} \right] = 1.44 \frac{ft^2}{day}$$

The instantaneous discharge for the 130 ft trench is then:

$$Q_i = qL = \left( 1.44 \frac{ft^2}{day} \right) (40 ft) = 57.6 \frac{ft^3}{day} = 443 GPD = 0.31 gpm$$

The total quantity of discharge for a 10-hour workday in the worst-case trench is then:

$$Q_T = Q_i (\text{day fraction}) = (443 GPD) \left( \frac{10 hr}{24 hr} \right) = 185 \frac{gal}{10 \text{ hour day}}$$

For conservative design, we will use the following values:

max. flow rate: 0.31 gpm  
total daily discharge: 450 gallons (continuous discharge)

### Sedimentation basin:

First, determine the settling velocity, assuming that silty clay is the primary cause of turbidity (based on site well logs), using the following parameters:

$$D = \text{particle diameter} \approx 0.015 mm = 4.9 \times 10^{-5} ft$$

$$SG = \text{specific gravity of silt} \approx 2.2 (\text{moist clay})$$

$$\nu = \text{kinematic viscosity of water} = 1.217 \times 10^{-5} ft^2/s$$

A first estimate of the Reynold's number, using a typical silty clay settling velocity of 0.012 ft/min is:

$$Re \approx \frac{v_s D}{\nu} = \frac{\left( 0.012 \frac{ft}{min} \right) \left( \frac{1 min}{60 s} \right) (4.9 \times 10^{-5} ft)}{1.217 \times 10^{-5} \frac{ft^2}{s}} = 0.0008$$

Therefore the flow is laminar, and Stokes' Law governs the actual settling velocity:

$$v_s = \frac{(SG-1)D^2 g}{18\nu} = \frac{(2.2-1)(4.9 \times 10^{-5} ft)^2 (32.2 ft/s)}{18(1.217 \times 10^{-5} ft^2/s)} = 3.5 \times 10^{-4} \frac{ft}{s} = 0.021 \frac{ft}{hr}$$

Therefore, if we use a tank that is no more than 1.0 foot high, the silty clays should settle within an hour. In one hour, the (worst case) accumulated dewatering water would be approximately:

$$V = \left( 0.31 \frac{gal}{min} \right) \left( \frac{60 min}{hr} \right) = 18.6 gal$$

Therefore, provide a basin with a minimum volume of 20 gallons.

## Attachment 1 Dewatering and Sedimentation Calculations

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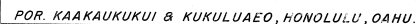
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**Apoha Aquarium Figure 1**  
**Island of Oahu and Vicinity Map**  
**CWB-NOI Form G, Item No. G.2.a.**



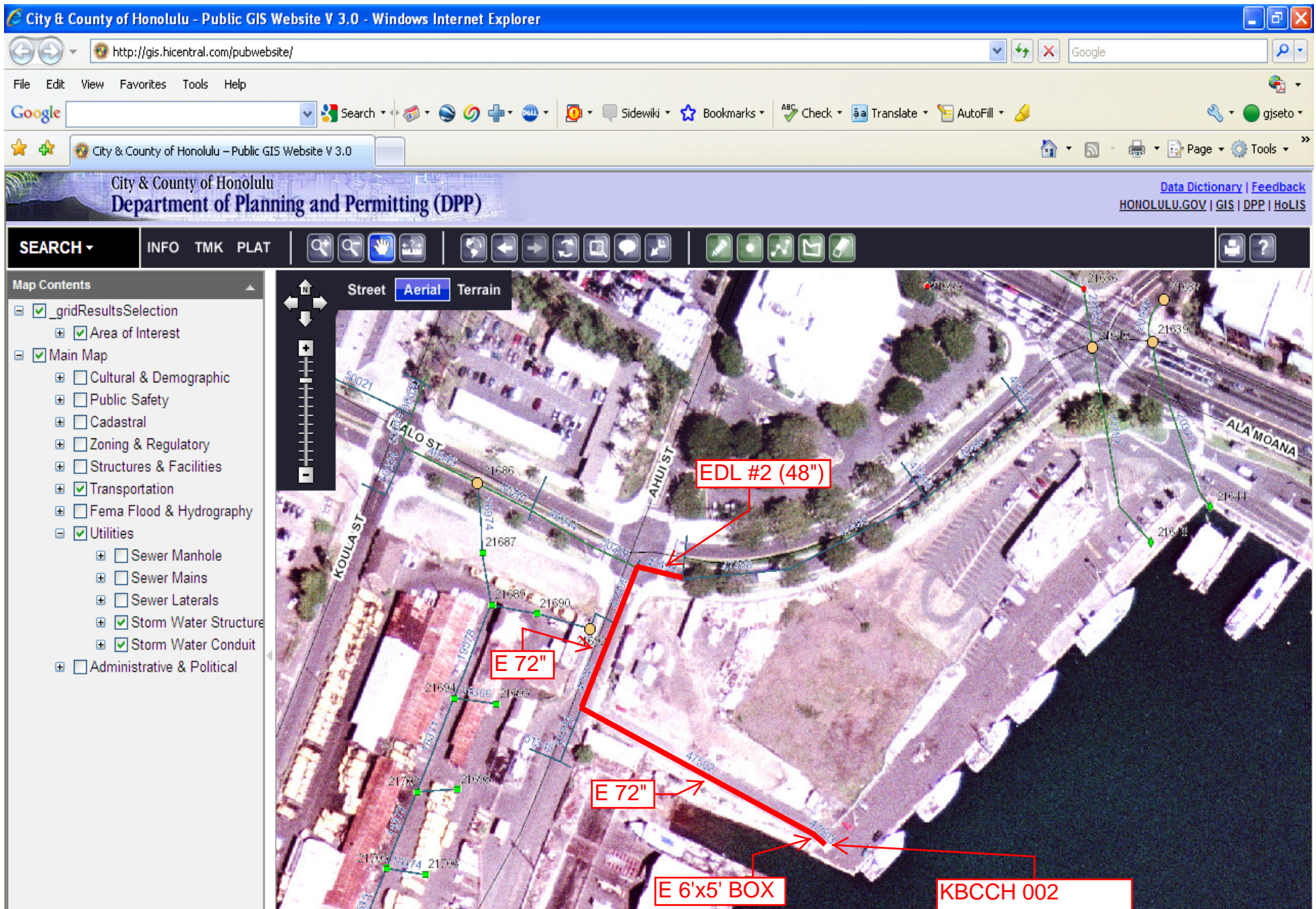




**Apoha Aquarium Figure 4**  
**Discharge Points, Receiving State Waters Map**  
**CWB-NOI Form G, Item No. G.2.b.ii.**

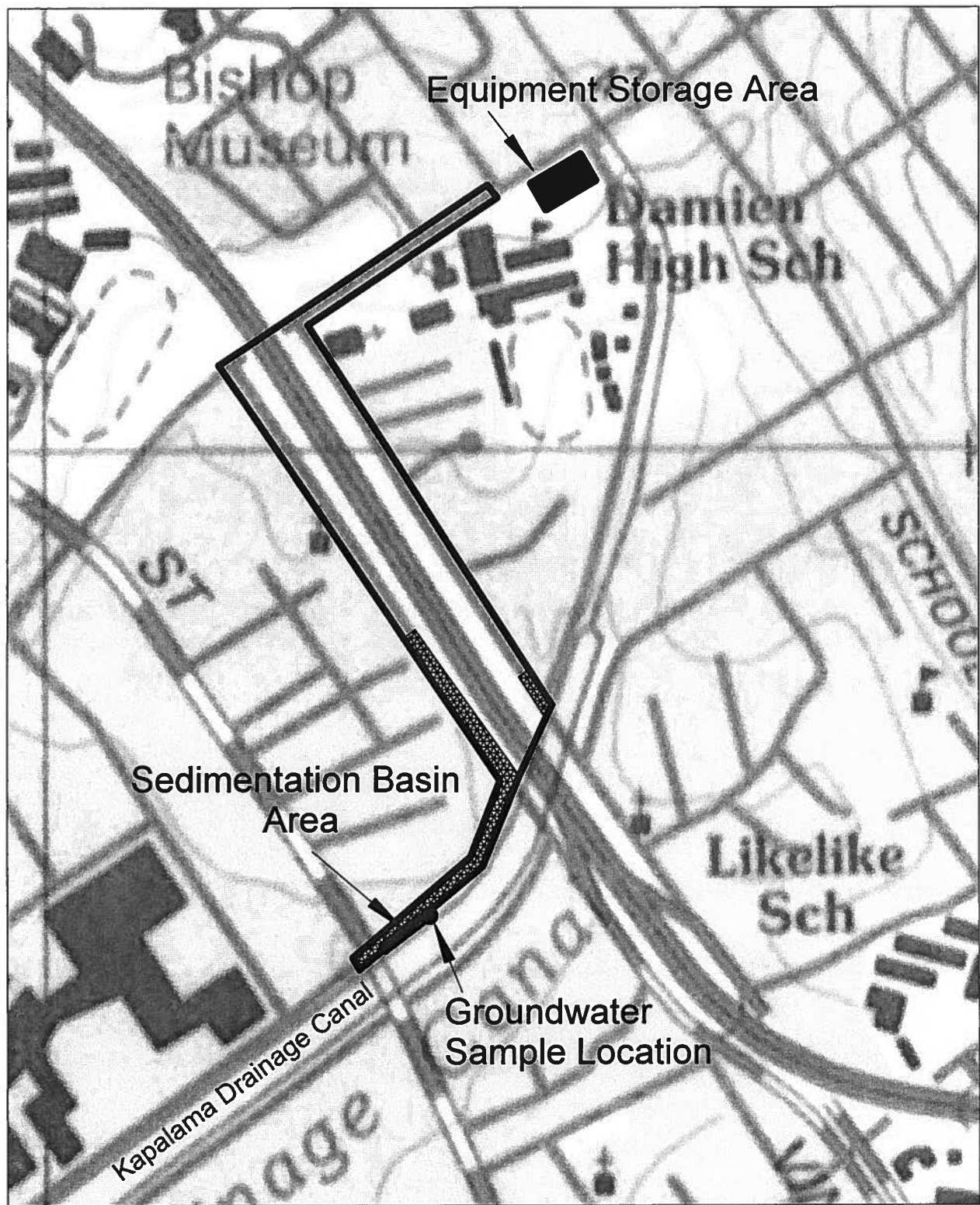






Apoha Aquarium Figure 5  
Receiving State waters & storm water drainage system  
CWB-NOI Form G, Item No. G.2.b.iii.

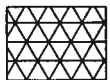




## LEGEND



Site Boundary



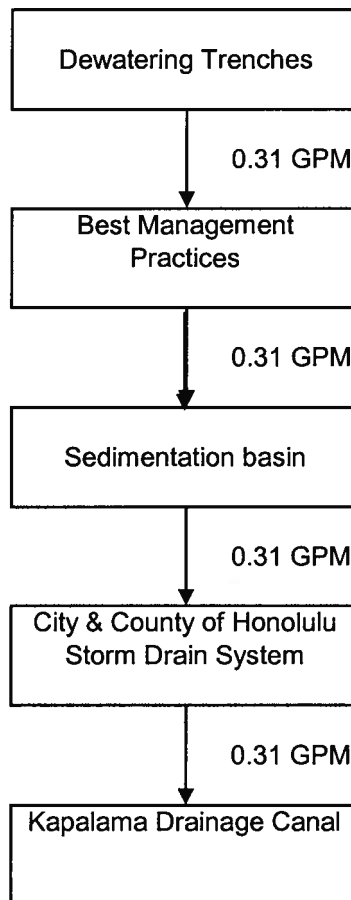
Dewatering Areas

Project:

Attachment 4

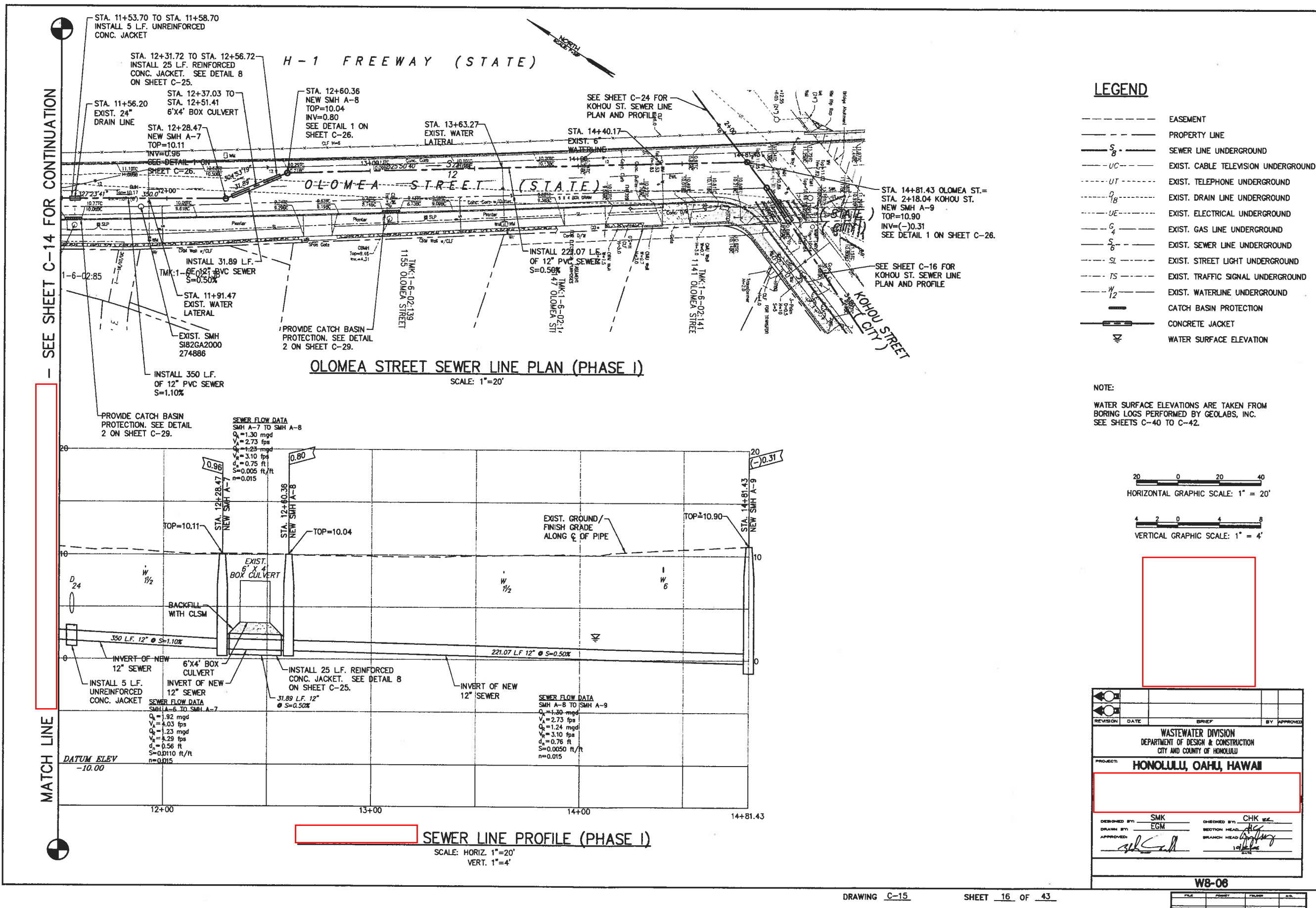
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## Attachment 5 Dewatering Flow Chart

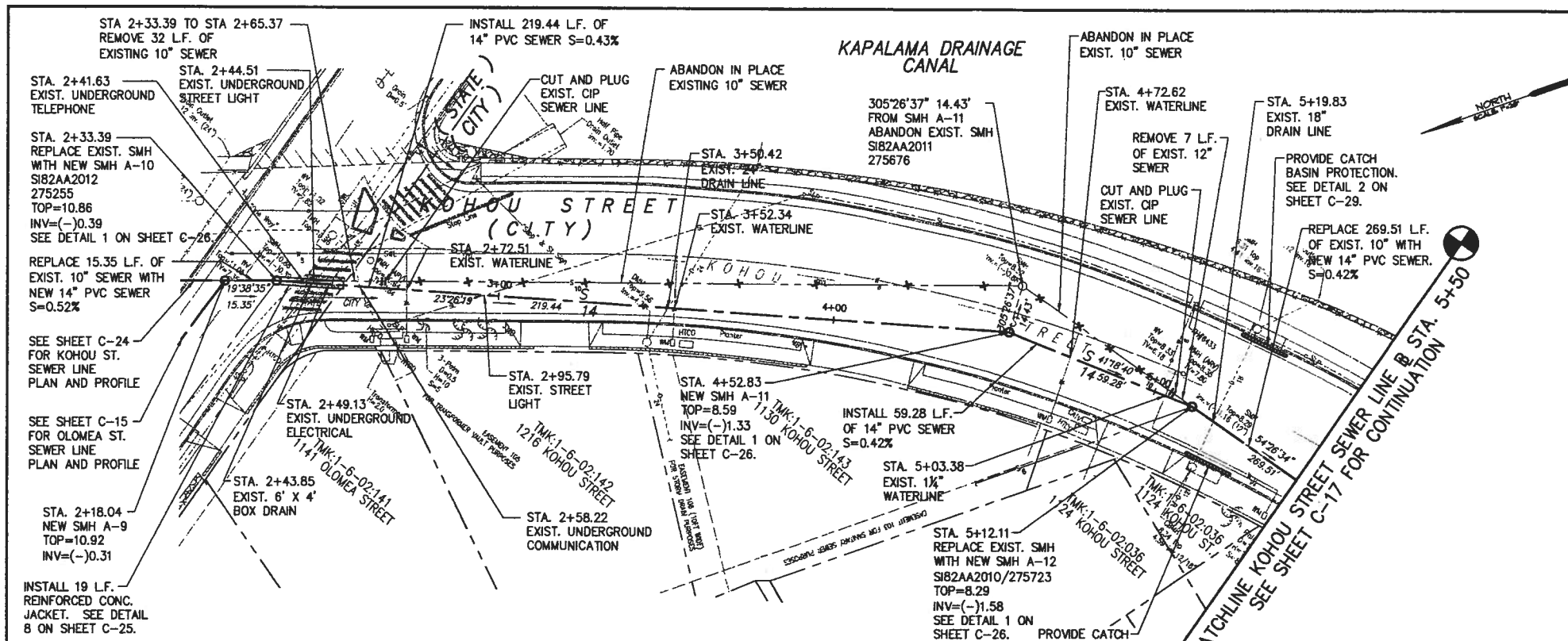








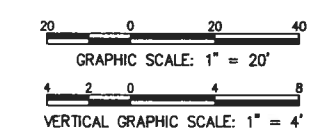




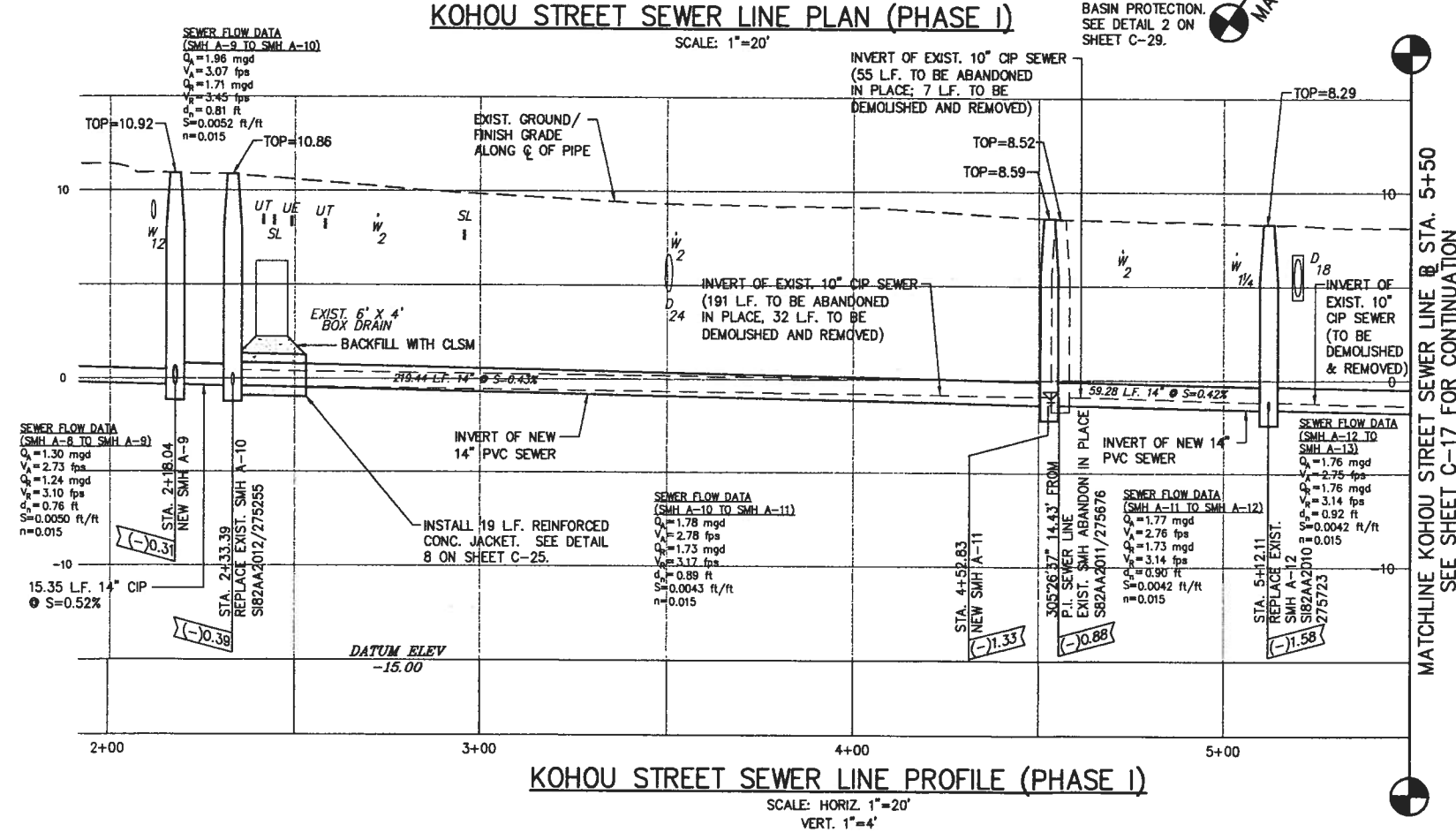
- NOTES FOR ABANDONMENT OF SEWER LINE:
- EXISTING SEWER LINES THAT ARE RECONSTRUCTED ALONG NEW ALIGNMENT AS INDICATED ON THIS SHEET SHALL BE ABANDONED IN PLACE. THE ABANDONED LINES SHALL NOT BE CLEANED AND CCTV INSPECTED, BUT SHALL HAVE OPEN ENDS PLUGGED WITH CLASS "C" CONCRETE WITHIN CITY RIGHT-OF-WAY. SEE NOTE 18 OF THE CONSTRUCTION NOTES ON SHEET C-1.
  - ALL ABANDONED SEWER MANHOLES SHALL HAVE THE TOP PRECAST CONICAL SECTION OR TOP 3 FEET OF CAST-IN-PLACE CONCRETE OR BRICK MANHOLES REMOVED AND THE BOTTOM SHALL BE BROKEN AND COMPLETELY FRACTURED. THE REMAINING PORTION OF THE MANHOLES SHALL BE FILLED SOLID WITH CLSM.

### LEGEND

- EASEMENT
- PROPERTY LINE
- S --- SEWER LINE UNDERGROUND
- UC --- EXIST. CABLE TELEVISION UNDERGROUND
- UT --- EXIST. TELEPHONE UNDERGROUND
- D --- EXIST. DRAIN LINE UNDERGROUND
- UE --- EXIST. ELECTRICAL UNDERGROUND
- G --- EXIST. GAS LINE UNDERGROUND
- S --- EXIST. SEWER LINE UNDERGROUND
- SL --- EXIST. STREET LIGHT UNDERGROUND
- TS --- EXIST. TRAFFIC SIGNAL UNDERGROUND
- W --- EXIST. WATERLINE UNDERGROUND
- S --- EXIST. SEWER LINE UNDERGROUND TO BE ABANDONED IN PLACE
- CATCH BASIN PROTECTION
- CONCRETE JACKET
- WATER SURFACE ELEVATION

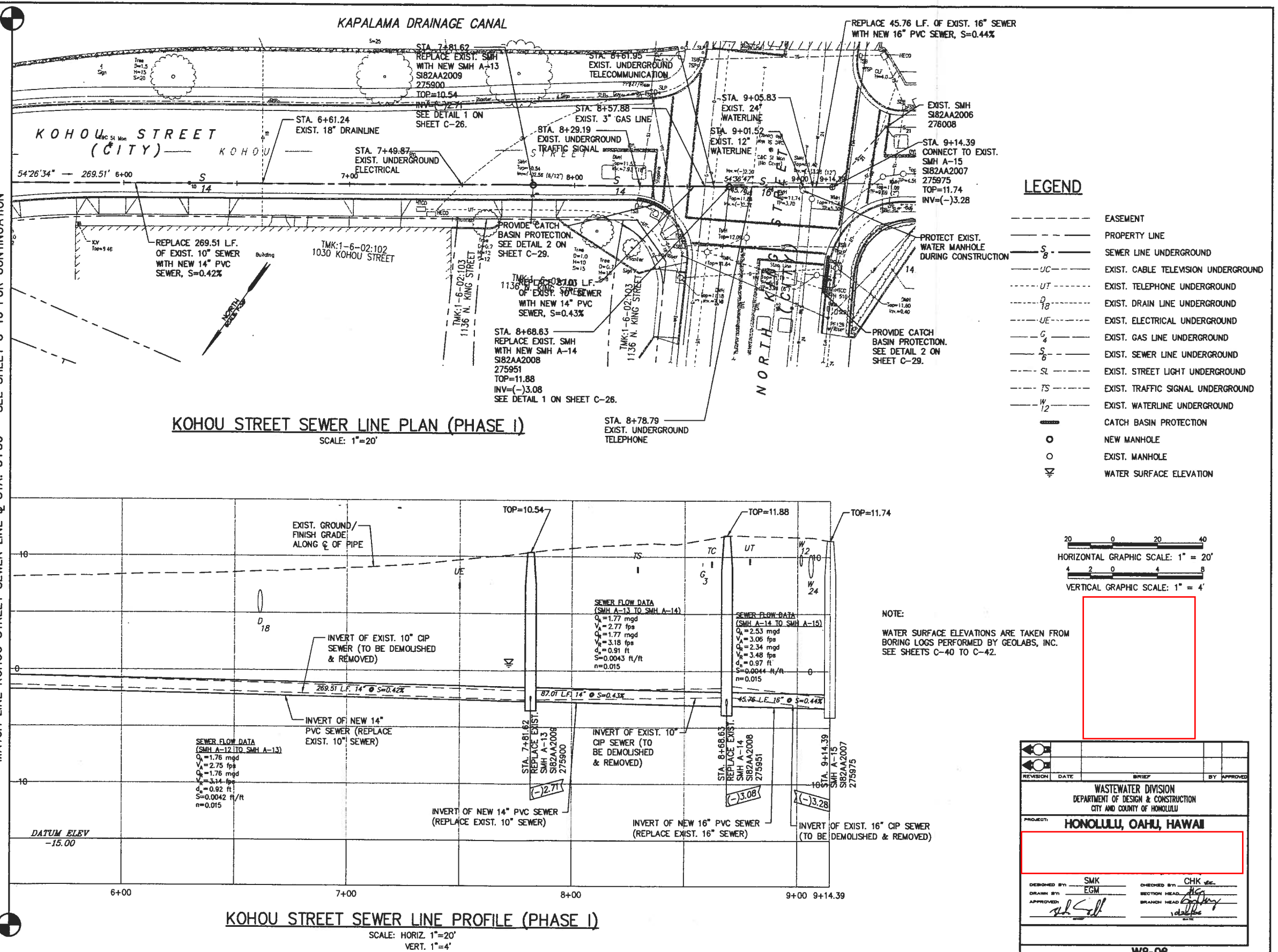


NOTE:  
WATER SURFACE ELEVATIONS ARE TAKEN FROM BORING LOGS PERFORMED BY GEOLABS, INC. SEE SHEETS C-40 TO C-42.



REVISION	DATE	BRIEF	BY	APPROVED
<p align="center"><b>WASTEWATER DIVISION</b> DEPARTMENT OF DESIGN &amp; CONSTRUCTION CITY AND COUNTY OF HONOLULU</p> <p>PROJECT: <b>HONOLULU, OAHU, HAWAII</b></p>				
DESIGNED BY: <b>SMK</b>	CHECKED BY: <b>CHK</b>			
DRAWN BY: <b>EGM</b>	SECTION HEAD: <b>EGM</b>			
APPROVED: <b>[Signature]</b>	BRANCH HEAD: <b>[Signature]</b>			
<p align="center"><b>WB-06</b></p>				

MATCH LINE KOHOU STREET SEWER LINE @ STA. 5+50 - SEE SHEET C-16 FOR CONTINUATION



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**X0000000000X X0000000000X X0000000000X X0000000000 X0000000000 X0000000000X X0000000000 X00KJ0000000X**

### Anticipated Dewatering Months

Date Received: 11-09-07  
Date Tested: 11-09-07  
Date Completed: 11-19-07

Lab No. 78: Water sample, 11-09-07 @ 09:00

<u>Parameter</u>	<u>Results</u>	<u>Method</u>	<u>MDL*</u>
Total Nitrogen	1.22	SM 4500	0.1 mg/L
Ammonia-Nitrogen	ND	EPA 350.2	0.1 mg/L
Nitrate-Nitrite-N	0.94	EPA 353	0.05 mg/L
Total Phosphorus-P	0.15	EPA 365	0.02 mg/L
Turbidity	23.8	EPA 180.1	0.05 NTU
Total Suspended Solids	37.3	EPA 160.2	1.0 mg/L
pH	7.5	EPA 150.1	0.1 units
Dissolved Oxygen	9.9	EPA 360.1	0.10 mg/L
Oxygen Saturation	107	SM 4500	0.01 %
Salinity	4.0	SM 2520B	1.00 ppt
Chloride	1,890	SM 4500	10 mg/L
Conductivity	5.6	SM 2510 B	0.01 mS
Oil & Grease	8.5	EPA 1664	5 mg/L

\* MDL = Method Detection Level  
ND = Not Detected

Approved By:

Revised 11/28/07 Alcon Omura

**QA/QC Report**  
**Laboratory Control Sample**

<b>Parameter</b>	<b>Amount Spiked</b>	<b>Measured Amount</b>	<b>Units</b>	<b>Percent Recovery</b>	<b>Reporting Limit</b>	<b>Method</b>	<b>Analysis Date</b>
Ammonia -N	9.76	7.95	mg/L	81%	80-120%	EPA 350.2	11-14-07
Total Kjeldahl Nitrogen	8	7.56	mg/L	95%	80-120%	EPA 351.3	11-14-07
Nitrate-Nitrite-N	0.5	0.45	mg/L	90%	80-120%	EPA 353.3	11-15-07
Total Phosphorus	1.00	1.01	mg/L	101%	80-120%	EPA 8190	11-13-07
Turbidity	10	10	NTU	100%	80-120%	SM 2130	11-09-07
Total Suspended Solids	100	91	mg/L	91%	80-120%	SM 2540	11-09-07
pH	7.00	7.02	-	100%	80-120%	SM 4500	11-09-07
Salinity	1.0	1.0	g/100g	100%	90-110%	ATAGO	11-09-07
Chloride	200	190	mg/L	95%	80-120%	EPA 325.3	11-13-07
Oil and Grease	20	19.2	mg/L	96%	80-120%	EPA 1664	11-09-07

**QA/QC Report  
Method Blank Report**

<b>Parameter</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Method</b>	<b>Analysis Date</b>
Ammonia -N	ND	0.1 mg/L	EPA 350.2	11-14-07
Total Kjeldahl Nitrogen	ND	0.10 mg/L	EPA 351.3	11-14-07
Nitrate-Nitrite-N	ND	0.05 mg/L	EPA 353.3	11-15-07
Total Phosphorus	ND	0.02 mg/L	EPA 8190	11-13-07
Turbidity	ND	0.1 NTU	SM 2130	11-09-07
Total Suspended Solids	ND	1.0 mg/L	SM 2540	11-09-07
pH	ND	1.0 unit	SM 4500	11-09-07
Salinity	ND	0.1 g/100g	ATAGO	11-09-07
Chloride	ND	10 mg/L	EPA 325.3	11-13-07
Oil and Grease	ND	5 mg/L	EPA 1664	11-09-07



DATE \_\_\_\_\_ PAGE \_\_\_\_\_ OF \_\_\_\_\_

NO. \_\_\_\_\_ FILE NO. \_\_\_\_\_ LAB NO. \_\_\_\_\_

AIRBILL NO: \_\_\_\_\_

7 COOLER TEMP: \_\_\_\_\_

**PRESEAED:**\_\_\_\_\_

REMARKS:

**SAMPLE CONDITION/**  
**COMMENTS:**

TAT (Analytical Turn Around Time) 0 = Same day, 1 = 24 Hour, 2 = 48 Hour, (Etc.) N = NORMAL

**CONTAINER TYPES:** B = Brass, G = Glass, P = Plastic, V = VOA Vial, O = Other:

[illegible]

Faktor-ges.

Released By: (Signature and Printed Name)

Received By: (Signature and Printed Name)

Case: 1:11-cv-00001 Document 1-1 Filed 02/02/12 Page 1 of 1

Requisitioned By: (Signature and Printed Name)

Received By: (Signature and Printed Name)

Code	Index
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**SPECIAL INSTRUCTIONS:**

**SAMPLE DISPOSITION:**

1. Samples returned to client?	YES	NO
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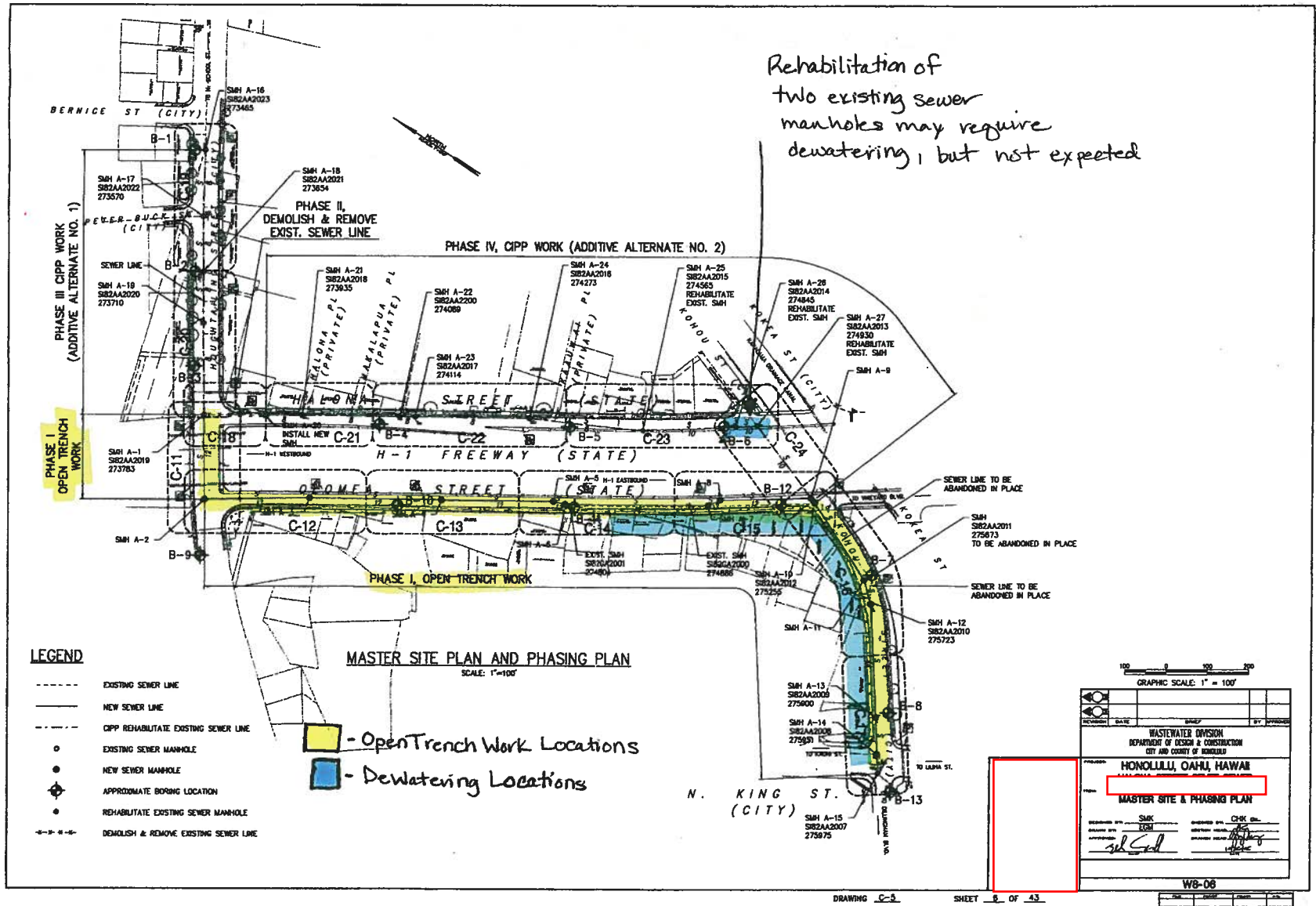
2. Samples will not be stored over 30 days, unless additional storage time is requested.

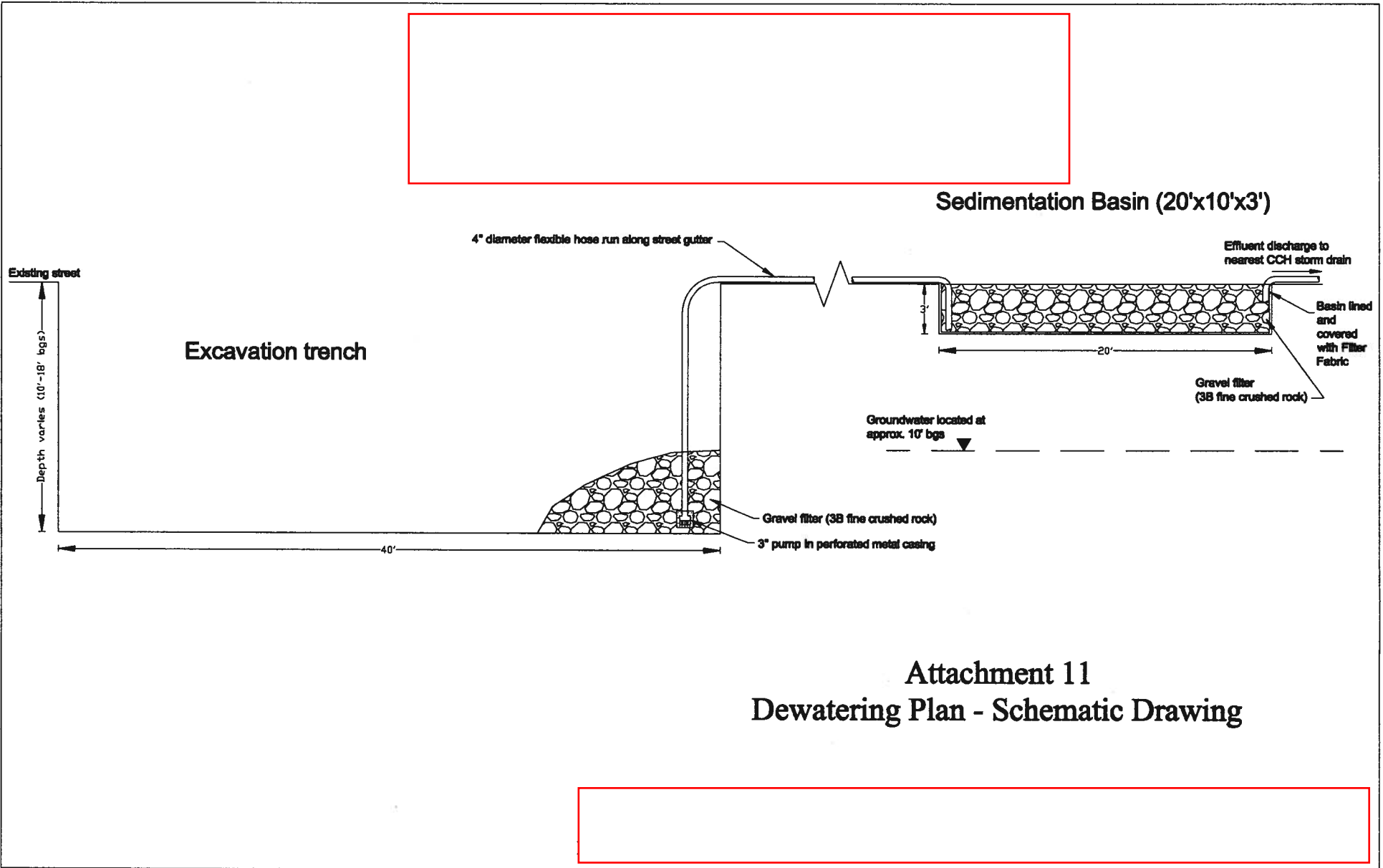
3. Storage time requested: \_\_\_\_\_ days

By \_\_\_\_\_ Date \_\_\_\_\_

LAB COPY







Attachment 11  
Dewatering Plan - Schematic Drawing

## ATTACHMENT 10

# BEST MANAGEMENT PRACTICES PLAN

## CONSTRUCTION POLLUTION PREVENTION PLAN

This Construction Pollution Prevention Plan (CPPP) describes Best Management Practices (BMP) and methods that will be utilized to minimize discharge of pollutants into State waters from construction dewatering activities.

The primary goals of this plan are to:

1. Prevent discharging dewatering effluent without the proper treatment;
2. To actively monitor discharge so corrective actions can be taken when;
  - a. physical changes are observed in the discharge; and
  - b. contamination is encountered; and
3. To manage storage of equipment and materials near the dewatering site.

### 1. Construction Activity

The project entails replacement and installation of new sewer lines with related structures (i.e., manholes, catch basins) in public streets. Several portions of the project will require excavating below the water table and therefore dewatering of these areas will be performed to complete this sewer work. Excavated areas will be backfilled and re-paved.

Materials anticipated to be used or resulting from replacement activities will likely consist of concrete, bricks, and PVC sewer pipe.

Heavy equipment could consist of wheel type loader/backhoe, track type excavator, dump truck, portable generator, as required.

No discharge of dewatering effluent into any storm drainage facility or receiving waters will be conducted until a NPDES Permit to cover such discharge is issued by the State of Hawaii Department of Health. Personnel will not be permitted to operate and maintain dewatering system or devices without first being briefed on the acceptable best management practices.

## ATTACHMENT 10

# BEST MANAGEMENT PRACTICES PLAN

## 2. Potential Pollutants

Potential pollutants include those that may be entrained in the groundwater and/ or subsurface soil adjacent to the trenches and that which may be entrained in storm water. The majority of the site is covered with asphalt and is located adjacent to residential housing. Subsurface contamination is not expected at this site.

Construction materials could be a potential pollutant source. However, most materials will be installed in a trench, and storm water in the vicinity of the trench would flow into the trench, rather than move across the trench and potentially carry soil particles to state waters. In areas to be re-surfaced with asphalt, no issues with quality of discharge are anticipated.

The groundwater quality shall be frequently monitored at trench locations, as well as in the sedimentation basin. Should any indications of deteriorated water quality or excessive turbidity be noted, discharge will be terminated until the dewatering effluent can be tested and an alternative method of treatment or disposal is provided and approved.

Potential pollutants also include petroleum products associated with fluid leakage during operation of construction equipment. On-site maintenance will be prohibited and the contractor shall ensure all construction equipment used for the project is in proper operating condition. All on-site vehicles will be checked prior to arrival at the site, will be monitored on a daily basis for leaks and will receive regular preventative maintenance to reduce the chance of leakage.

Soil stockpiles could be a potential pollutant source. In soil stockpile areas, entrainment of soil particles in storm water will be prevented by covering the stockpile. Trenching work is not expected to be conducted during rainy weather, therefore storm water runoff is not expected to enter an open trench.

Materials will be stored off-site in an equipment storage area, and appropriate measures will be taken to prevent storm water from carrying materials into state waters. The storage area will be situated on existing asphaltic pavement at Damien High School (refer to Attachment 4) which is located more than 2,000 feet from the nearest state waters. Berms would be constructed on the up-gradient side of the storage area to prevent stormwater from entering it. During storm events and at nights/weekends, the portions of the storage area would be covered, if it contained materials that could be entrained in storm water flow. A detail of the storage area berm construction is not given; however, the contractor will simply provide a 2-foot soil or other structural berm upgradient of the storage area to prevent storm water from entering the area. If items are stored in the storage area that may leak and migrate down-gradient out of the storage area, the contractor will add berms around the remainder of the storage area.

## ATTACHMENT 10

### BEST MANAGEMENT PRACTICES PLAN

#### 3. Quality of Discharge

Fill materials to be used consist of excavated materials and select borrow (if required). The bulk of the site subsurface areas to be excavated are composed of fill.

Nutrients (nitrogen and phosphorus), turbidity and total suspended solids were reported at concentrations greater than the receiving water criteria specified under HAR Ch. 11-54. The groundwater sample was collected from an open excavated hole adjacent to the canal and near the proposed dewatering area. Because the groundwater sample was collected from an open excavation with slow groundwater recharge, we were unable to collect a non-turbid sample. We are unaware of the source of the reported nutrients, and no source is indicated from knowledge of the site and surrounding area history. The Kapalama Stream was listed by the DOH in 2002 and 2004 as an impaired water due to nutrients, turbidity and trash. The geographic coordinates for the Kapalama Stream and the Kapalama Drainage Canal are the same (Station ID 3-3-10). The proposed work addressed by this dewatering permit is for sewer line replacements and upgrades and nearby water quality issues may be one of the reasons for conducting sewer work in this area. Elevated turbidity and suspended solids values are not anticipated in the actual dewatering effluent because best management practices, including filtration will be conducted during site work. Color is expected during trenching work because of the measured turbidity of collected groundwater, but is not expected to be present in effluent after filtration.

No specific toxic pollutants were tested for, with the exception of testing for Oil and Grease by EPA Method 1664, because of the Site's and surrounding areas' historic residential land use. A total of 8.5 mg/L of oil and grease was detected in this sample, but there is no criteria specified under HAR Ch. 11-54 for Oil and Grease. Based on these results, significant petroleum contamination is not expected to be encountered during trenching activities. If any significant contamination is observed or identified with testing, discharge will be terminated until the suspect discharge is properly investigated and an effluent quality determination is made.

The dewatering effluent will be screened at the pump inlet using a perforated casing and gravel filter pack. A sedimentation basin will be used prior to discharge in order to minimize turbidity and provide an additional point of water quality inspection. Through the use of BMPs at the site, will limit the entrainment of potential pollutants into the trench water and will improve the quality of dewatering discharge.

## ATTACHMENT 10

### BEST MANAGEMENT PRACTICES PLAN

#### 4. Controls

##### A. Construction Management Techniques

- i. Construction will be sequenced to minimize the exposure time of an open trench. Trenches will be excavated in approximately 40 feet long sections and will be backfilled upon completion of each section, which expected to be completed within two to three working days.
- ii. Control measures will be in place and functional before trenching operations begin. These measures will be properly constructed and maintained throughout the construction period.
- iii. The project will be completed in multiple phases as shown on Sheet C-5, Master Site and Phasing Plan of the construction plans. No more than one trench will undergo dewatering at any given time. Areas of one phase shall be stabilized before another phase is initiated. Stabilization shall be accomplished by temporarily protecting the surfaces with non-skid steel plates and then permanently stabilized by backfilling and re-paving.
- iv. Disturbed areas will be stabilized by resurfacing with asphalt as soon as practical and not more than thirty days following completion of work in an area.
- v. The contractor will designate a specific individual to be responsible for inspecting the equipment, controls, and effluent water quality on a regular basis (the "*competent person*").
- vi. Records of the duration and estimated volume of dewatering discharge will be maintained.

##### B. Operational Controls

- i. Turbidity of dewatering discharge will be minimized by proper placement of a dewatering pump inside a perforated casing within a gravel filter bed, and also with the use of a sedimentation basin prior to discharge. The sedimentation basin will also provide an additional point of inspection prior to discharge, should unexpected constituents be found within the soil or groundwater.
- ii. Turbidity control measures will be in place at the pumping location prior to dewatering, during site work, and until permanent controls are in place.
- iii. Water will be discharged in a manner that it does not cause or contribute to a violation of the basic water quality criteria as specified in HAR Section § 11-54-04.

## ATTACHMENT 10

### BEST MANAGEMENT PRACTICES PLAN

- iv. Dewatering equipment and controls, water lines, the basin, and the effluent water shall be frequently monitored by the contractor's "*competent person*" to guard against excessive build-up of sedimentation in the bottom of the basin or in the discharge water. Particular attention shall be paid to the water quality during daily start-up periods, and the first time each trench is dewatered. Inspections and repairs will be conducted as necessary, no less than the beginning of each shift (i.e. minimum twice a day), and at the beginning of dewatering activities in each trench. Records of checks and repairs will be maintained.
- v. Equipment maintenance or fueling will not be conducted in or near trenches.
- vi. Solid waste will be picked up and placed in containers that are regularly emptied.
- vii. Hazardous waste is not anticipated, with the possible exception of petroleum-contaminated soil or groundwater (if encountered). Any suspect materials encountered or generated during construction will be properly accumulated, identified, containerized, labeled, marked, manifested and removed from the project site in accordance with applicable environmental regulations. If the quality of soil or water in the trench is determined to be suspect, discharge shall be terminated until the suspect material is properly investigated and an effluent quality determination is made.

#### C. Treatment requirements

- i. Based on laboratory analysis of groundwater, no treatment, except filtration for turbidity and suspended solids is anticipated to be required for dewatering effluent. The "*competent person*" shall monitor the dewatering water quality, and sampling and treatment will be conducted prior to releasing impacted water to receiving waters. Visual monitoring will consist of inspection of the effluent sample in a clear glass jar and checking for suspended solids and clarity.
- ii. All dewatering discharge will be pumped into the sedimentation basin prior to discharge, as a back-up measure to guard against suspended solids. The inflow and outflow from the sedimentation basin shall be from the top of the water column, to minimize re-mobilization of settled solids. The inflow and outflow points of the basin shall be separated to the maximum extent possible, in order to minimize short-circuiting of the effluent. The basin and water shall be frequently monitored by the contractor's competent person to guard against excessive build-up of sedimentation in the bottom of the basin or in the discharge water. Particular attention shall be paid to the water quality during daily start-up periods, and the first time each trench is dewatered.

#### D. Other Management Practices to Prevent or Reduce Pollution of State Waters

- i. During construction, the contractor shall incorporate appropriate measures to prevent any debris from accumulating in the trenches.



## **ATTACHMENT 10**

### **BEST MANAGEMENT PRACTICES PLAN**

- ii. Waste material will be stored and staged in a manner to prevent the discharge of debris into any water body.
- iii. Material staging and stockpiling areas (including soil and fill, if required) shall be confined to prevent spilling into open trenches.
- iv. Prior to dewatering activities and when moving dewatering equipment from one trench to another, all water lines and dewatering equipment shall be visually inspected and all soil and/or other material within the lines and dewatering equipment shall be removed.
- v. Potential pollutants, such as oil, grease and fuel, that may contaminate the dewatering discharge, will be properly stored away from the dewatering operations in suitably labeled and sealed containers.
- vi. Electric pumps will be used for this work, so fueling, greasing and other equipment maintenance can be performed away from trenches. Any spilled material will be immediately contained, cleaned up, and disposed of properly.

#### **5. Erosion and Sediment Control Requirement**

Due to the paved nature of the locations, contract drawings do not include an erosion control plan. The control measures described above fulfill the erosion and sediment control requirements.