

PROPOSED

Issue Date

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
(XXXX XXXX XXXX XXXX XXXX)

10-XXE CAB
File No. 0241-01

Mr. Theodore F. Dela Cruz
Operations Manager
Concrete and Quarry Products
Ameron Hawaii
P.O. Box 29968
Honolulu, Hawaii 96820

Dear Mr. Dela Cruz:

**Subject: Renewal of Covered Source Permit (CSP) No. 0241-01-C
 Modification Application Nos. 0241-02, 0241-04
 Renewal Application No. 0241-03
 Ameron Hawaii
 600 TPH Stone Processing Facility and 300 yd³/hr Concrete Batch Plant
 Located at: 909 Kalaniana'ole Highway, Kailua, Oahu
 Date of Expiration: 5 Years from Issue Date**

The subject covered source permit is issued in accordance with Hawaii Administrative Rules, Title 11, Chapter 60.1. The issuance of this permit is based on the plans, specifications, and information you submitted as part of your September 8, 2004 minor modification application, February 7, 2007 renewal application, April 2, 2009 significant modification application, and additional information dated May 7, 2009, June 18, 2009, July 14, 2009, August 6, 2009, October 30, 2009 and November 25, 2009. This covered source permit supersedes CSP No. 0241-01-C issued on December 16, 2002, in its entirety.

The covered source permit is issued subject to the conditions and requirements set forth in the following attachments:

Attachment I:	Standard Conditions
Attachment II:	Special Conditions
Attachment II-Insig:	Special Conditions – Insignificant Activities
Attachment III:	Annual Fee Requirements
Attachment IV:	Annual Emissions Reporting Requirements

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Mr. Theodore F. Dela Cruz
Issue Date
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The following forms are enclosed for your use and submittal as required:

Compliance Certification Form	
Annual Emissions Report Form:	Concrete Batching
Annual Emissions Report Form:	Stone Quarrying and Processing
Monitoring Report Form:	Operating Hours – Stone Processing and Concrete Batch Plant
Monitoring Report Form:	Combustion of Used Oil
Monitoring Report Form:	Fuel Consumption - Diesel Engines
Monitoring Report Form:	Visible Emissions

The following are for use in monitoring visible emissions:

Visible Emissions Form Requirements, State of Hawaii
Visible Emissions Form
The Ringlemann Chart

This permit: (a) shall not in any manner affect the title of the premises upon which the equipment is to be located; (b) does not release the permittee from any liability for any loss due to personal injury or property damage caused by, resulting from or arising out of the design, installation, maintenance, or operation of the equipment; and (c) in no manner implies or suggests that the Hawaii Department of Health, or its officers, agents, or employees, assumes any liability, directly or indirectly, for any loss due to personal injury or property damage caused by, resulting from or arising out of the design, installation, maintenance, or operation of the equipment.

Sincerely,

ALEC WONG, P.E., ACTING CHIEF
Environmental Management Division

KK:smk
Enclosure

c: CAB Monitoring Section

**ATTACHMENT I: STANDARD CONDITIONS
COVERED SOURCE PERMIT NO. 0241-01-C**

Issuance Date:

Expiration Date:

This permit is granted in accordance with the Hawaii Administrative Rules (HAR), Title 11, Chapter 60.1, Air Pollution Control, and is subject to the following standard conditions:

1. Unless specifically identified, the terms and conditions contained in this permit are consistent with the applicable requirement, including form, on which each term or condition is based.

(Auth.: HAR §11-60.1-90)
2. This permit, or a copy thereof, shall be maintained at or near the source and shall be made available for inspection upon request. The permit shall not be willfully defaced, altered, forged, counterfeited, or falsified.

(Auth.: HAR §11-60.1-6; SIP §11-60-11)²
3. This permit is not transferable whether by operation of law or otherwise, from person to person, from place to place, or from one piece of equipment to another without the approval of the Department of Health, except as provided in HAR, Section 11-60.1-91.

(Auth.: HAR §11-60.1-7; SIP §11-60-9)²
4. A request for transfer from person to person shall be made on forms furnished by the Department of Health.

(Auth.: HAR §11-60.1-7)
5. In the event of any changes in control or ownership of the facilities to be constructed or modified, this permit shall be binding on all subsequent owners and operators. The permittee shall notify the succeeding owner and operator of the existence of this permit and its conditions by letter, copies of which will be forwarded to the Department of Health and the U.S. Environmental Protection Agency (EPA), Region 9.

(Auth.: HAR §11-60.1-5, §11-60.1-7, §11-60.1-94)
6. The facility covered by this permit shall be constructed and operated in accordance with the application, and any information submitted as part of the application, for the Covered Source Permit. There shall be no deviation unless additional or revised plans are submitted to and approved by the Department of Health, and the permit is amended to allow such deviation.

(Auth.: HAR §11-60.1-2, §11-60.1-4, §11-60.1-82, §11-60.1-84, §11-60.1-90)

7. This permit (a) does not release the permittee from compliance with other applicable statutes of the State of Hawaii, or with applicable local laws, regulations, or ordinances, and (b) shall not constitute, nor be construed to be an approval of the design of the covered source.

(Auth.: HAR §11-60.1-5, §11-60.1-82)

8. The permittee shall comply with all the terms and conditions of this permit. Any permit noncompliance constitutes a violation of HAR, Chapter 11-60.1 and the Clean Air Act and is grounds for enforcement action; for permit termination, suspension, reopening, or amendment; or for denial of a permit renewal application.

(Auth.: HAR §11-60.1-3, §11-60.1-10, §11-60.1-19, §11-60.1-90)

9. If any term or condition of this permit becomes invalid as a result of a challenge to a portion of this permit, the other terms and conditions of this permit shall not be affected and shall remain valid.

(Auth.: HAR §11-60.1-90)

10. The permittee shall not use as a defense in an enforcement action that it would have been necessary to halt or reduce the permitted activity to maintain compliance with the terms and conditions of this permit.

(Auth.: HAR §11-60.1-90)

11. This permit may be terminated, suspended, reopened, or amended for cause pursuant to HAR, Sections, 11-60.1-10 and 11-60.1-98, and Hawaii Revised Statutes (HRS), Chapter 342B-27, after affording the permittee an opportunity for a hearing in accordance with HRS, Chapter 91.

(Auth.: HAR §11-60.1-3, §11-60.1-10, §11-60.1-90, §11-60.1-98)

12. The filing of a request by the permittee for the termination, suspension, reopening, or amendment of this permit, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

(Auth.: HAR §11-60.1-90)

13. This permit does not convey any property rights of any sort, or any exclusive privilege.

(Auth.: HAR §11-60.1-90)

14. The permittee shall notify the Department of Health and U.S. EPA, Region 9 in writing of the following dates:
- The **anticipated date of initial start-up** for each emission unit of a new source or significant modification not more than sixty (60) days or less than thirty (30) days prior to such date;
 - The **actual date of construction commencement** within fifteen (15) days after such date; and
 - The **actual date of start-up** within fifteen (15) days after such date.

(Auth.: HAR §11-60.1-90)

15. The permittee shall furnish, in a timely manner, any information or records requested in writing by the Department of Health to determine whether cause exists for terminating, suspending, reopening, or amending this permit, or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Department of Health copies of records required to be kept by the permittee. For information claimed to be confidential, the Director of Health may require the permittee to furnish such records not only to the Department of Health but also directly to the U.S. EPA, Region 9 along with a claim of confidentiality.

(Auth.: HAR §11-60.1-14, §11-60.1-90)

16. The permittee shall notify the Department of Health in writing, of the **intent to shut down air pollution control equipment for necessary scheduled maintenance** at least twenty-four (24) hours prior to the planned shutdown. The submittal of this notice shall not be a defense to an enforcement action. The notice shall include the following:
- Identification of the specific equipment to be taken out of service, as well as its location and permit number;
 - The expected length of time that the air pollution control equipment will be out of service;
 - The nature and quantity of emissions of air pollutants likely to be emitted during the shutdown period;
 - Measures such as the use of off-shift labor and equipment that will be taken to minimize the length of the shutdown period; and
 - The reasons why it would be impossible or impractical to shut down the source operation during the maintenance period.

(Auth.: HAR §11-60.1-15; SIP §11-60-16)²

17. **Except for emergencies which result in noncompliance with any technology-based emission limitation in accordance with HAR, Section 11-60.1-16.5, in the event any emission unit, air pollution control equipment, or related equipment malfunctions or breaks down in such a manner as to cause the emission of air pollutants in violation**

of HAR, Chapter 11-60.1 or this permit, the permittee shall immediately notify the Department of Health of the malfunction or breakdown, unless the protection of personnel or public health or safety demands immediate attention to the malfunction or breakdown and makes such notification infeasible. In the latter case, the notice shall be provided as soon as practicable. Within five (5) working days of this initial notification, the permittee shall also submit, in writing, the following information:

- a. Identification of each affected emission point and each emission limit exceeded;
- b. Magnitude of each excess emission;
- c. Time and duration of each excess emission;
- d. Identity of the process or control equipment causing the excess emission;
- e. Cause and nature of each excess emission;
- f. Description of the steps taken to remedy the situation, prevent a recurrence, limit the excessive emissions, and assure that the malfunction or breakdown does not interfere with the attainment and maintenance of the National Ambient Air Quality Standards and state ambient air quality standards;
- g. Documentation that the equipment or process was at all times maintained and operated in a manner consistent with good practice for minimizing emissions; and
- h. A statement that the excess emissions are not part of a recurring pattern indicative of inadequate design, operation, or maintenance.

The submittal of these notices shall not be a defense to an enforcement action.

(Auth.: HAR §11-60.1-16; SIP §11-60-16)²

18. The permittee may request confidential treatment of any records in accordance with HAR, Section 11-60.1-14.

(Auth.: HAR §11-60.1-14, §11-60.1-90)

19. This permit shall become invalid with respect to the authorized construction if construction is not commenced as follows:

- a. Within eighteen (18) months after the permit takes effect, is discontinued for a period of eighteen (18) months or more, or is not completed within a reasonable time.
- b. For phased construction projects, each phase shall commence construction within eighteen (18) months of the projected and approved commencement dates in the permit. This provision shall be applicable only if the projected and approved commencement dates of each construction phase are defined in Attachment II, Special Conditions, of this permit.

(Auth.: HAR §11-60.1-9, §11-60.1-90)

20. The Department of Health may extend the time periods specified in Standard Condition No. 19 upon a satisfactory showing that an extension is justified. Requests for an extension shall be submitted in writing to the Department of Health.

(Auth.: HAR §11-60.1-9, §11-60.1-90)

21. The permittee shall submit fees in accordance with HAR, Chapter 11-60.1, Subchapter 6.

(Auth.: HAR §11-60.1-90)

22. All certifications shall be in accordance with HAR, section 11-60.1-4.

(Auth.: HAR §11-60.1-4, HAR §11-60.1-90)

23. The permittee shall allow the Director of Health, the Regional Administrator for the U.S. EPA and/or an authorized representative, upon presentation of credentials or other documents required by law:

- a. To enter the premises where a source is located or emission-related activity is conducted, or where records must be kept under the conditions of this permit and inspect at reasonable times all facilities, equipment, including monitoring and air pollution control equipment, practices, operations, or records covered under the terms and conditions of this permit and request copies of records or copy records required by this permit; and
- b. To sample or monitor at reasonable times substances or parameters to ensure compliance with this permit or applicable requirements of HAR, Chapter 11-60.1.

(Auth.: HAR §11-60.1-11, §11-60.1-90)

24. Within thirty (30) days of **permanent discontinuance of the construction, modification, relocation, or operation of the facility covered by this permit**, the discontinuance shall be reported in writing to the Department of Health by a responsible official of the source.

(Auth.: HAR §11-60.1-8; SIP §11-60-10)²

25. Each permit renewal application shall be submitted to the Department of Health and the U.S. EPA, Region 9 no less than twelve (12) months and no more than eighteen (18) months prior to the permit expiration date. The director may allow a permit renewal application to be submitted no less than six (6) months prior to the permit expiration date, if the director determines that there is reasonable justification.

(Auth.: HAR §11-60.1-101, 40 CFR §70.5(a)(1)(iii))¹

26. The terms and conditions included in this permit, including any provision designed to limit a source's potential to emit, are federally enforceable unless such terms, conditions, or requirements are specifically designated as not federally enforceable.

(Auth.: HAR §11-60.1-93)

27. The compliance plan and compliance certification submittal requirements shall be in accordance with HAR, Sections 11-60.1-85 and 11-60.1-86. As specified in HAR, Section 11-60.1-86, the compliance certification shall be submitted to the Department of Health and the U.S. EPA, Region 9 once per year, or more frequently as set by any applicable requirement.

(Auth.: HAR §11-60.1-90)

28. **Any document (including reports) required to be submitted by this permit shall be certified as being true, accurate, and complete by a responsible official in accordance with HAR, Sections 11-60.1-1 and 11-60.1-4, and shall be mailed to the following address:**

**Clean Air Branch
Environmental Management Division
Hawaii Department of Health
919 Ala Moana Boulevard, Room 203
Honolulu, HI 96814**

Upon request and as required by this permit, all correspondence to the State of Hawaii Department of Health associated with this Covered Source Permit shall have duplicate copies forwarded to:

**Chief
Permits Office, (Attention: Air-3)
Air Division
U.S. Environmental Protection Agency
Region 9
75 Hawthorne Street
San Francisco, CA 94105**

(Auth.: HAR §11-60.1-4, §11-60.1-90)

29. To determine compliance with submittal deadlines for time-sensitive documents, the postmark date of the document shall be used. If the document was hand-delivered, the date received ("stamped") at the Clean Air Branch shall be used to determine the submittal date.

(Auth.: HAR §11-60.1-5, §11-60.1-90)

¹The citations to the Code of Federal Regulations (CFR) identified under a particular condition, indicate that the permit condition complies with the specified provision(s) of the CFR. Due to the integration of the preconstruction and operating permit requirements, permit conditions may incorporate more stringent requirements than those set forth in the CFR.

²The citations to the State Implementation Plan (SIP) identified under a particular condition, indicate that the permit condition complies with the specified provision(s) of the SIP.

**ATTACHMENT II: SPECIAL CONDITIONS
COVERED SOURCE PERMIT NO. 0241-01-C**

Issuance Date:

Expiration Date:

In addition to the Standard Conditions of the Covered Source Permit, the following Special Conditions shall apply to the permitted facility:

Section A. Equipment Description

This permit encompasses the following equipment and associated appurtenances for the stone processing facility and concrete batch plant:

1. Stone Processing Facility

a. Primary/Secondary Plant

- i. One (1) 600 TPH Missouri Rogers dynactuator surge vibratory feeder (4½'x16');
- ii. One (1) 600 TPH Kueken primary jaw crusher (60'x48'), Model 200;
- iii. One (1) 600 TPH Symons standard cone crusher (5 ½');
- iv. One (1) 600 TPH Hewitt-Robins secondary scalper (5'x12');
- v. One (1) 600 TPH Hewitt-Robins 3-deck screen (6'x16');
- vi. One (1) 925 TPH Metso LT140 Jaw Crusher (CR10), with 540 hp diesel engine (DE4);
- vii. One (1) 550 TPH Metso GPS 500S Cone Crusher (CR11), with 1,490 hp diesel engine (DE3);
- viii. Various conveyors; and
- ix. Water spray system.

b. Tertiary Plant

- i. Three (3) Surge vibratory feeders;
- ii. Two (2) 140 TPH Symons gyradisc 54" crushers;
- iii. One (1) 215 TPH Nordberg HP300SX cone crusher;
- iv. One (1) Hewitt-Robins 2-deck scalper screen (5'x 14');
- v. Two (2) 75 TPH Hewitt-Robins 3-deck screens (7'x 20');
- vi. Two (2) Hewitt-Robins 2-deck screen (7'x20');
- vii. One (1) Wet wash screen 31;
- viii. Various conveyors; and
- ix. Water spray system.

c. Mansand Plant

- i. Six (6) Primary surge vibratory feeders;
- ii. One (1) Fines air separator;
- iii. One (1) Bucket elevator;
- iv. Two (2) Canica Crushers, Model 100;
- v. Twelve (12) Tyler TY-Rock 2-deck screens (5'x14');
- vi. Twelve (12) Tyler TY-Speed single deck screens (4'x10');

- vii. One (1) 65,000 cfm Stansteel pulse jet baghouse, Model 3200RT (BH1);
- viii. One (1) 15,000 cfm Dustex pulse jet baghouse, Model 3418-9-26 (BH2);
- ix. One (1) 5,000 cfm Dustex pulse jet baghouse, Model 3338-6-10 (BH3);
- x. One (1) 2,500 cfm Dustex pulse jet baghouse, Model 3338-6-6 (BH4);
- xi. One (1) 6,000 cfm Dustex pulse jet baghouse, Model 3338-6-8 (BH6);
- xii. One (1) 1,800 cfm Dusty Dustless mechanical shaker baghouse, Model 36LS (BH8);
- xiii. One (1) 3,600 cfm Dustex pulse jet baghouses, Model 3338-6-8 (BH9);
- xiv. One (1) 3,000 cfm BHA reverse jet baghouse (BH10);
- xv. One (1) 30,400 cfm Rees reverse jet baghouse, Model 6-1500 (BH11);
- xvi. One (1) 10,000 cfm Dustex pulse jet baghouse, (BH12);
- xvii. Two (2) 1,500 cfm Griffin mechanical shaker baghouses (BH27 & 28);
- xviii. One (1) Impact separator;
- xix. Two (2) cyclones;
- xx. One (1) Stansteel rotary dryer and cooler/Genco burner (204 gph), Model 810;
- xxi. Various tanks;
- xxii. Various conveyors; and
- xxiii. Water spray system.

2. Concrete Batch Plant

- a. One (1) 300 yd³/hour REX concrete batcher, Model LO GO 12;
- b. One (1) 54 ton cement silo;
- c. One (1) 100 ton Rex cement silo;
- d. One (1) 45 yd³ Rex aggregate bin;
- e. One (1) Dune sand tank;
- f. Two (2) 15 pound/hour Griffin cement weigh batcher vents, Model 18CDS;
- g. Two (2) 15 pound/hour Griffin silo filter vents, Model 36KS;
- h. One (1) C&W baghouse for premix drum, Model CW-RA-140 (BH_DRUM); and
- i. One (1) 75 kW Detroit Diesel back-up generator, Model 6V71T.

(Auth.: HAR §11-60.1-3)

- 3. An identification tag or nameplate shall be displayed on all equipment to show model no. and/or serial/ID no., and manufacturer, with the exception of the conveyor belts and waterspray systems. The identification tag or nameplate shall be permanently attached to the equipment in a conspicuous location.

(Auth.: HAR §11-60.1-5)

Section B. Operational and Emission Limitations

1. Operational Restrictions

- a. The total operating hours of the stone processing facility and concrete batch plant shall each not exceed sixteen (16) hours per day.
- b. The total operating hours of the stone processing facility and concrete batch plant shall each not exceed 4,992 hours in any rolling twelve (12) month period.
- c. The rotary dryer for the mansand plant shall be fired only on fuel oil no. 2, specification used oil, or exhaust heat from Kapaa Generating Partners.
- d. The back-up diesel engine generator for the concrete batch plant shall be fired only on fuel oil no. 2.
- e. Diesel engines DE3 and DE4 shall be fired on fuel oil no. 2 with a maximum sulfur content not to exceed 0.5% by weight.
- f. The total amount of fuel consumed by DE3 shall not exceed 140,000 gallons in any rolling twelve (12) month period.
- g. The total amount of fuel consumed by DE4 shall not exceed 235,000 gallons in any rolling twelve (12) month period.

(Auth.: HAR §11-60.1-3, §11-60.1-90)

2. Baghouses

The baghouses shall be used at all times during the operation of the stone processing facility and concrete batch plant. The baghouses shall be maintained in good operating condition. Scheduled inspection and maintenance shall be performed as recommended by the manufacturer.

(Auth.: HAR §11-60.1-3, §11-60.1-33, §11-60.1-90)

3. Watersprays

Waterspray bars shall be installed, maintained, and utilized continuously during operation of the stone processing facility to minimize fugitive dust at all material drop off points and conveyor transfer points. If observation or routine inspection required in Special Condition C.2.b. indicates a significant drop in water flow rate, plugged nozzle(s), leak in the piping system, or other problems which affect the efficiency of the water spray system, the permittee shall correct the problem before resuming operations.

(Auth.: HAR §11-60.1-3, §11-60.1-33, §11-60.1-90)

4. Fugitive Emissions

- a. The permittee shall not cause or permit fugitive dust to become airborne without taking reasonable precautions and shall not cause or permit the discharge of visible emissions of fugitive dust beyond the lot line of the property on which the emissions originate.
- b. The permittee shall take measures to control fugitive dust (e.g., wet suppression, enclosures, etc.) at the crushers, screens, material transfer points, stockpiles, and throughout the facility.

The Department of Health may at any time require the permittee to further abate fugitive dust emissions if an inspection indicates poor or insufficient control.

(Auth.: HAR §11-60.1-3, §11-60.1-33, §11-60.1-90)

5. Visible Emissions

- a. For any six (6) minute averaging period, the stone processing facility and concrete batch plant, excluding crushers CR10 and CR11 and diesel engines DE3 and DE4, shall not exhibit visible emissions of forty (40) percent or greater, except as follows: during start-up, shutdown, or equipment breakdown, the stone processing plant and concrete batch plant may exhibit visible emissions greater than forty (40) but not exceeding sixty (60) percent opacity for a period aggregating not more than six (6) minutes in any sixty (60) minute period.
- b. For any six (6) minute averaging period, the diesel engines DE3 and DE4 shall not exhibit visible emissions of twenty (20) percent or greater, except as follows: during start-up, shutdown, or equipment breakdown, the stone processing plant and concrete batch plant may exhibit visible emissions greater than twenty (20) but not exceeding forty (40) percent opacity for a period aggregating not more than six (6) minutes in any sixty (60) minute period.
- c. Crushers CR10 and CR11 shall not exhibit visible emissions of greater than fifteen (15) percent.

(Auth.: HAR §11-60.1-3, §11-60.1-32, §11-60.1-90, 40 CFR 60.672)

6. Emission Limits

The following baghouses shall not discharge or cause the discharge into the atmosphere particulate matter in excess of the following limits.

Baghouse	Emission Limit (lb/hr)
BH1	4.1271
BH2	0.1897
BH11	1.6429
BH_Drum	0.0570

(Auth.: HAR §11-60.1-3, §11-60.1-35, §11-60.1-90)

7. Combustion of Specification Used Oil

- a. The permit conditions prescribed herein may be revised at any time by the Department of Health to reflect federal or state promulgated rules on specification (spec) used oil.
- b. The permittee shall comply with all applicable state and federal rules and regulations on the handling, transporting, storing and burning of specification used oil. If this permit is determined to be in conflict with any state or federal rules, the permit shall be surrendered upon request by the Department of Health.
- c. The permit does not authorize the permittee to burn hazardous waste. The permittee shall not burn the used oil if declared or determined to be hazardous waste.
- d. Used oil shall be obtained only from equipment operating at Ameron facilities. The used oil may be burned in the rotary drier in accordance with the procedures specified in this permit. Used oil may also be obtained from other sources, provided that written notification identifying the new source is submitted to and approved by the Department prior to the acceptance of the used oil.
- e. Samples of the used oil generated from Ameron facilities shall be taken from the holding tank or drums, and composited and analyzed for compliance with the limits in Attachment II, Condition No. B.7.g prior to being burned. The samples shall be taken in such a manner that the composite sample obtained is representative of **all** the used oil generated by the facility for that period of time. The composite sample shall represent no more than four hundred (400) gallons of specification used oil or all of the oil collected in any six (6) month period, whichever is less.
- f. Each composite sample shall be submitted in a timely manner to a qualified laboratory and an analysis report shall be obtained for the constituents/properties listed in Attachment II, Condition No. B.7.g.

- g. The following constituents/properties of the used oil shall not exceed the specified limits listed below:

Constituent/Property	Allowable Limit
Arsenic	5 ppm maximum
Cadmium	2 ppm maximum
Chromium	10 ppm maximum
Lead	100 ppm maximum
Total Halogens	1,000 ppm maximum
Sulfur	0.5% maximum by weight
Flash Point	100 °F minimum
Polychlorinated Biphenyls (PCB)	≤ 2 ppm

- h. Should the results of any used oil analysis deem the sample to be hazardous, the contaminated containers shall be identified and isolated from the noncontaminated containers and properly disposed.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-38, §11-60.1-90)

8. Alternate Operating Scenarios

- a. Terms and conditions for reasonably anticipated operating scenarios identified by the source in the covered source permit application and approved by the Department of Health are as follows:
- i. The permittee may replace any crusher with a replacement unit if any repair reasonably warrants the removal (i.e., equipment failure, or any major equipment problems requiring maintenance for efficient operation) of the crusher from its site and the following provisions are adhered to:
- A) Written notification identifying the reasons for the replacement from the site of operation is submitted to and approved by the Department of Health prior to the exchange;
 - B) The crusher is replaced by a crusher of the same make, model, and size;
 - C) The replacement unit complies with all applicable conditions including all air pollution control equipment requirements, operating restrictions, and emission limits; and
 - D) Prior to the removal of the crusher, the permittee shall submit to the Department of Health written documentation on the removal date and on the make, size, model and serial numbers for both the replacement unit and the installed unit.
- ii. The permittee may replace any screen with a replacement unit if any repair reasonably warrants the removal (i.e., equipment failure, or any major equipment problems requiring maintenance for efficient operation) of the screen from its site

- and the following provisions are adhered to:
- A) Written notification identifying the reasons for the replacement from the site of operation is submitted to and approved by the Department of Health prior to the exchange;
 - B) The screen is replaced by a screen of the same make, model, and size;
 - C) The replacement unit complies with all applicable conditions including all air pollution control equipment requirements, operating restrictions, and emission limits; and
 - D) Prior to the removal of the screen, the permittee shall submit to the Department of Health written documentation on the removal date and on the make, size, model and serial numbers for both the replacement unit and the installed unit.
- iii. The permittee may replace any diesel engine with a replacement unit if any repair reasonably warrants the removal (i.e., equipment failure, or any major equipment problems requiring maintenance for efficient operation) of the screen from its site and the following provisions are adhered to:
- A) Written notification identifying the reasons for the replacement from the site of operation is submitted to and approved by the Department of Health prior to the exchange;
 - B) The diesel engine is replaced by a diesel engine of the same make, model, and size;
 - C) The replacement unit complies with all applicable conditions including all air pollution control equipment requirements, operating restrictions, and emission limits; and
 - D) Prior to the removal of the diesel engine, the permittee shall submit to the Department of Health written documentation on the removal date and on the make, size, model and serial numbers for both the replacement unit and the installed unit.
- b. The permittee shall contemporaneously with making a change from one operating scenario to another, record in a log at the permitted facility the scenario under which it is operating and, if required by any applicable requirement or the Department of Health, submit written notification to the Department of Health; and
- c. The terms and conditions under each operating scenario shall meet all applicable requirements, including special conditions of this permit.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90)

Section C. Monitoring and Recordkeeping Requirements

All records, including support information, shall be maintained for at least five (5) years from the date of the monitoring sample, measurement, test, report, or applications. Support information includes all maintenance, inspection, and repair records, and copies of all reports required by this permit. These records shall be true, accurate, in a permanent form suitable for inspection and made available to the Department of Health or their representative upon request.

1. The permittee shall ensure the following items of each of the baghouses are operating properly:
 - a. The filter pads are checked for any tears, holes, abrasions and scuffs; and replaced as needed;
 - b. The cleaning system is maintained and operated at sufficient intervals to minimize particulate buildup or caking on the filter pad; and
 - c. Other miscellaneous items/equipment essential for the effective operation of the baghouses are maintained.

(Auth.: HAR §11-60.1-3, §11-60.1-33, §11-60.1-90)

2. Waterspray System

- a. A water flow meter shall be installed, operated and maintained to measure the flow rate of the water spray system in gallons per minute.
- b. The waterspray system to include the water pump, pipe system, spray nozzles and any gauges (i.e., water pressure, water flow meter, etc.) shall be checked daily to insure proper operation of the water spray system.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90)

3. Operational Records

- a. A non-resetting hour meter shall be installed on the stone processing plant and concrete batch plant for the permanent recording of operating hours. Daily and monthly records shall be kept on the beginning and ending meter reading. Operational summaries shall include the total hours of operation on a daily, monthly, and rolling twelve-month (12-month) basis. *The installation of any new non-resetting meters or the replacement of any existing non-resetting meters shall be designed to accommodate a minimum of five (5) years of equipment operation, considering any operational limitations, before the meter returns to a zero reading.*

- b. A non-resetting fuel meter shall be installed on diesel engines DE3 and DE4 for the permanent recording of fuel consumption. The non-resetting meter shall not allow the manual resetting or other manual adjustments of the meter readings. Daily and monthly records shall be kept on the beginning and ending meter reading. Operational summaries shall include the total fuel consumption of each diesel engine on a daily, monthly, and rolling twelve-month (12-month) basis. *The installation of any new non-resetting meters or the replacement of any existing non-resetting meters shall be designed to accommodate a minimum of five (5) years of equipment operation, considering any operational limitations, before the meter returns to a zero reading.*
- c. Fuel purchase receipts showing the fuel type, date of delivery, and amount (gallons) of fuel delivered to the site for the diesel generator, diesel engines, and dryer.
- d. Source performance test plans and results.
- e. The total amount of specification used oil combusted on an annual basis.
- f. The sampling date, amount of used oil the sample represents, date of analyses, and results of the analyses.
- g. An inspection, maintenance and repair log for the equipment covered under this permit. Inspection of, and replacement of parts and repairs to the crushers, screens, conveyors, baghouses, diesel engines, and water spray system shall be documented. At a minimum, the following records shall be maintained:
 - i. The date of the inspection/repair;
 - ii. A description of the part(s) inspected or repaired;
 - iii. A description of the findings and any maintenance or repair work performed; and
 - iv. The name and title of the inspector.
- h. The total amount of fuel consumed, in gallons, on a monthly basis for DE3 and DE4. The monthly readings shall consist of the sum of the daily fuel consumption readings for the month in question.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90)

4. Visible Emissions (VE)

- a. The permittee shall conduct **monthly** (calendar month) VE observations for the baghouses, CR10, CR11, DE3 and DE4 in accordance with Method 9 or by use of a Ringelmann Chart as provided. For each period, two (2) observations shall be taken at fifteen (15) second intervals for six (6) consecutive minutes for each equipment. Records shall be completed and maintained in accordance with the *Visible Emissions Form Requirements*. The monthly observations are not required if a source performance test or annual VE observation is performed during the month in question.

- b. The permittee shall conduct annually (calendar year) VE observations for the baghouses CR10 and CR11 and diesel engines DE3 and DE4 in accordance with Method 9 and Section E of this permit. For each period, two (2) observations shall be taken at fifteen (15) second intervals for six (6) consecutive minutes for each equipment. Records shall be completed and maintained in accordance with the *Visible Emissions Form Requirements*.
- c. Upon justification by the permittee, the Department of Health may waive the requirement for a specific annual VE test. The waiver request is to be submitted prior to the required test and must include documentation justifying such action. Documentation should include, but is not limited to, the results of prior tests indicating compliance by a wide margin, documentation of continuing compliance, and further that operation of the source have not changed since the previous source test.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90)

Section D. Notification and Reporting Requirements

1. Notification and reporting pertaining to the following events shall be done in accordance with Attachment 1, Standard Conditions Nos. 14, 16, 17 and 25, respectively:
 - a. *Anticipated date of initial startup, actual date of construction commencement, and actual date of startup;*
 - b. Intent to shut down air pollution control equipment for necessary scheduled maintenance;
 - c. *Emissions of air pollutants in violation of HAR, Chapter 11-60.1 or this permit (excluding technology-based emission exceedences due to emergencies); and*
 - d. *Permanent discontinuance of construction, modification, relocation, or operation of the facility covered by this permit.*

(Auth.: HAR §11-60.1-8, §11-60.1-15, §11-60.1-16, §11-60.1-90; SIP §11-60-10, §11-60-16)¹

2. Permit Deviations

The permittee shall report **within five (5) working days** any deviations from the permit requirements, including those attributable to upset conditions, the probable cause of such deviations and any corrective actions or preventative measures taken. Corrective actions may include a requirement for additional source testing, more frequent monitoring, or the implementation of a corrective action plan.

(Auth.: HAR §11-60.1-3, §11-60.1-15, §11-60.1-16, §11-60.1-90)

3. Performance Test Reports

- a. At least **thirty (30) days prior to conducting a source performance test**, the permittee shall submit a written performance test plan to the Department of Health pursuant to Special Condition E.5.
- b. **Within sixty (60) days after the completion of the performance test**, the permittee shall submit to the Department of Health the performance test report pursuant to Special Condition E.6.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, §11-60.1-161)

4. Monitoring Report Forms

The permittee shall submit **semi-annually** the following reports to the Department of Health. The reports shall be submitted **within sixty (60) days after the end of each semi-annual calendar period (January 1 - June 30 and July 1 - December 31)**. The enclosed Monitoring Report Forms shall be used:

- a. Operating Hours – Stone Processing and Concrete Batch Plant;
- b. Combustion of used oil; and
- c. Fuel Consumption – Diesel Engines.

(Auth.: HAR §11-60.1-3, §11-60.1-33, §11-60.1-90)

5. Compliance Certification

During the permit term, the permittee shall submit at least **annually** to the Department of Health and EPA, Region 9, a Compliance Certification pursuant to HAR, Subsection 11-60.1-86. The permittee shall indicate whether or not compliance is being met with each term or condition of this permit. The compliance certification shall include, at a minimum, the following information:

- a. The identification of each term or condition of the permit that is the basis of the certification;
- b. The compliance status;
- c. Whether compliance was continuous or intermittent;
- d. The methods used for determining the compliance status of the source currently and over the reporting period;
- e. Any additional information indicating the source's compliance status with any applicable enhanced monitoring and compliance certification including the requirements of Section 114(a)(3) of the Clean Air Act or any applicable monitoring and analysis provisions of Section 504(b) of the Clean Air Act; and
- f. Any additional information as required by the Department of Health including information to determine compliance. The compliance certification shall be submitted **within ninety**

(90) days after the end of each calendar year, and shall be signed and dated by a responsible official. Upon written request of the permittee, the deadline for submitting the compliance certification may be extended, if the Department of Health determines that reasonable justification exists for the extension.

(Auth.: HAR §11-60.1-4, §11-60.1-86, §11-60.1-90)

6. Annual Emissions

As required by Attachment IV and in conjunction with the requirements of Attachment III, Annual Fee Requirements, the permittee shall report **annually** the total tons per year emitted of each regulated air pollutant, including any hazardous air pollutants. The reporting of annual emissions is due **within sixty (60) days following the end of each calendar year**.

Upon the written request of the permittee, the deadline for reporting of annual emissions may be extended, if the Department of Health determines that reasonable justification exists for the extension. The enclosed Annual Emissions Report Forms shall be used:

- a. Concrete Batching
- b. Stone Quarrying and Processing

(Auth.: HAR §11-60.1-3, §11-60.1-90)

Section E. Testing Requirements

1. On an annual basis, or at other times as specified by the Department of Health, the permittee shall conduct or cause to be conducted performance tests for particulate matter on baghouses BH1, BH2, BH11, and BH_DRUM. The Department of Health may require testing at other points in the facility or more frequent testing if an inspection indicates poor or insufficient controls.

(Auth.: HAR §11-60.1-5, §11-60.1-11, §11-60.1-90)

2. Within sixty (60) days after achieving the maximum production rate at which the facility will be operated, but not later than one hundred eighty (180) days after initial startup, and annually thereafter, the permittee shall conduct or cause to conduct performance tests for visible emissions on crushers CR10 and CR11.

(Auth.: HAR §11-60.1-5, §11-60.1-11, §11-60.1-90, 40 CFR §60.675)

3. Upon written request and justification, the Department of Health may waive the requirement for, or a portion of, a specific annual source test. The waiver request is to be submitted prior to the required test and must include documentation justifying such action. Documentation should include, but is not limited to, the results of the prior tests indicating compliance by a wide margin, documentation of continuing compliance, and further that operations of the source have not changed since the previous source test.

(Auth.: HAR §11-60.1-3, §11-60.1-90)

4. Performance tests for particulate matter shall be done in accordance with Method 5 or Method 17 of 40 CFR, Part 60, Appendix A. Performance tests for visible emissions shall be done in accordance with Method 9 of 40 CFR Part 60 Appendix A and 40 CFR 60.675(c)(3).

(Auth.: HAR §11-60.1-5, §11-60.1-11, §11-60.1-90, 40 CFR §60.675)

5. The tests shall be made at the expense of the permittee and shall be conducted at the maximum expected operating capacity of the stone processing facility and associated concrete batch plant. All performance tests may be monitored by the Department of Health.

(Auth.: HAR §11-60.1-11, §11-60.1-90; SIP §11-60.1-15)¹

6. **At least thirty (30) days prior to conducting the performance test**, the permittee shall submit a written performance test plan to the Department of Health that includes date(s) of the test, test duration, test locations, test methods, source operation, and other parameters that may affect the test results. Such a plan shall conform to U.S. EPA, guidelines including quality assurance procedures. A test plan or quality assurance plan that does not have the approval of the Department of Health may be grounds to invalidate any test and require a retest.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90; SIP §11-60.1-15)¹

7. **Within sixty (60) days after** completion of the performance test, the permittee shall submit to the Department of Health the test report which shall include the operating conditions at the time if the test (e.g., baghouse flow rate in cfm during the test), locations of where the emissions were measured, summarized test results, comparative results with the permit emission limits, and other pertinent field/laboratory data.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90)

8. Any deviations from these conditions, test methods, or procedures may be cause for rejection of the test results unless such deviations are approved by the Department of Health before the tests.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90)

Section F. Agency Notification

Any document (including reports) required to be submitted by the Covered Source Permit shall be done in accordance with Attachment I, Standard Condition 29.

(Auth.: HAR §11-60.1-4, §11-60.1-90)

¹ The citations to the State Implementation Plan (SIP) identified under a particular condition, indicate that the permit condition complies with the specified provision(s) of the SIP.

² The citations to the Code of Federal Regulations (CFR) identified under a particular condition, indicate that the permit condition complies with the specified provision(s) of the CFR. Due to the integration of the preconstruction and operating permit requirements, permit conditions may incorporate more stringent requirements than those set forth in the CFR.

**ATTACHMENT II - INSIG
SPECIAL CONDITIONS - INSIGNIFICANT ACTIVITIES
COVERED SOURCE PERMIT NO. 0241-01-C**

Issuance Date:

Expiration Date:

In addition to the Standard Conditions of the Covered Source Permit, the following Special Conditions shall apply to the permitted facility:

Section A. Equipment Description

This attachment encompasses insignificant activities listed in HAR, §11-60.1-82(f) and (g) for which provisions of this permit and HAR, Subchapter 2, General Prohibitions, apply.

(Auth.: HAR §11-60.1-3)

Section B. Operational Limitations

1. The permittee shall take measures to operate applicable insignificant activities in accordance with the provisions of HAR, Subchapter 2 for visible emissions, fugitive dust, incineration, process industries, sulfur oxides from fuel combustion, storage of volatile organic compounds, volatile organic compound water separation, pump and compressor requirements, and waste gas disposal.

(Auth.: HAR §11-60.1-3, §11-60.1-82, §11-60.1-90)

2. The Department of Health may at any time require the permittee to further abate emissions if an inspection indicates poor or insufficient controls.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-82, §11-60.1-90)

Section C. Monitoring and Recordkeeping Requirements

1. The Department of Health reserves the right to require monitoring, recordkeeping, or testing of any insignificant activity to determine compliance with the applicable requirements.

(Auth.: HAR §11-60.1-3, §11-60.1-90)

2. All records shall be maintained for at least five (5) years from the date of any required monitoring, recordkeeping, testing, or reporting. These records shall be true, accurate, and maintained in a permanent form suitable for inspection and made available to the Department of Health or its authorized representative upon request.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90)

Section D. Notification and Reporting

Compliance Certification

During the permit term, the permittee shall submit at least **annually** to the Department of Health and U.S. EPA, Region 9, the attached *Compliance Certification Form* pursuant to HAR, Subsection 11-60.1-86. The permittee shall indicate whether or not compliance is being met with each term or condition of this permit. The compliance certification shall include, at a minimum, the following information:

1. The identification of each term or condition of the permit that is the basis of the certification;
2. The compliance status;
3. Whether compliance was continuous or intermittent;
4. The methods used for determining the compliance status of the source currently and over the reporting period;
5. Any additional information indicating the source's compliance status with any applicable enhanced monitoring and compliance certification including the requirements of Section 114(a)(3) of the Clean Air Act or any applicable monitoring and analysis provisions of Section 504(b) of the Clean Air Act; and
6. Any additional information as required by the Department of Health including information to determine compliance.

The compliance certification shall be submitted **within ninety (90) days** after the end of each calendar year, and shall be signed and dated by a responsible official. Upon written request of the permittee, the deadline for submitting the compliance certification may be extended, if the Department of Health determines that reasonable justification exists for the extension. In lieu of addressing each emission unit as specified in *Compliance Certification Form*, the permittee may address insignificant activities as a single unit provided compliance is met with all applicable requirements. If compliance is not totally attained, the permittee shall identify the specific insignificant activity and provide the details associated with the noncompliance.

(Auth.: HAR §11-60.1-4, §11-60.1-86, §11-60.1-90)

CSP No. 0241-01-C
Attachment II-Insig
Page 3 of 3
Issuance Date:
Expiration Date:

PROPOSED

Section E. Agency Notification

Any document (including reports) required to be submitted by this Covered Source Permit shall be done in accordance with Attachment I, Standard Condition No. 28.

(Auth.: HAR §11-60.1-4, §11-60.1-90)

PROPOSED

ATTACHMENT III: ANNUAL FEE REQUIREMENTS COVERED SOURCE PERMIT NO. 0241-01-C

Issuance Date:

Expiration Date:

The following requirements for the submittal of annual fees are established pursuant to Hawaii Administrative Rules (HAR), Title 11, Chapter 60.1, Air Pollution Control. Should HAR, Chapter 60.1 be revised such that the following requirements are in conflict with the provisions of HAR, Chapter 60.1, the permittee shall comply with the provisions of HAR, Chapter 60.1.

1. Annual fees shall be paid in full:
 - a. Within sixty (60) days after the end of each calendar year; and
 - b. Within thirty (30) days after the permanent discontinuance of the covered source.
2. The annual fees shall be determined and submitted in accordance with Hawaii Administrative Rules, Chapter 11-60.1, Subchapter 6.
3. The annual emissions data for which the annual fees are based shall accompany the submittal of any annual fees and submitted on forms furnished by the Department of Health.
4. The annual fees and the emission data shall be mailed to:

**Clean Air Branch
Environmental Management Division
Hawaii Department of Health
919 Ala Moana Boulevard, Room 203
Honolulu, HI 96814**

PROPOSED

ATTACHMENT IV: ANNUAL EMISSIONS REPORTING REQUIREMENTS COVERED SOURCE PERMIT NO. 0241-01-C

Issuance Date:

Expiration Date:

In accordance with the Hawaii Administrative Rules, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health the nature and amounts of emissions.

1. Complete the attached Form(s) for **Concrete Batching, and Stone Quarrying and Processing**.
2. The **annual reporting period** shall be from January 1 to December 31 of each year. All reports shall be submitted to the Department of Health within **sixty (60) days** after the end of each calendar year and shall be mailed to the following address:

**Clean Air Branch
Environmental Management Division
Hawaii Department of Health
919 Ala Moana Boulevard, Room 203
Honolulu, HI 96814**

3. The permittee shall retain the information submitted, including all emission calculations. These records shall be in a permanent form suitable for inspection, retained for a minimum of five (5) years, and made available to the Department of Health upon request.
4. Any information submitted to the Department of Health without a request for confidentiality shall be considered public record.
5. In accordance with HAR, Section 11-60.1-14, the permittee may request confidential treatment of specific information by submitting a written request to the Director and clearly identifying the specific information that is to be accorded confidential treatment.

**COMPLIANCE CERTIFICATION FORM
COVERED SOURCE PERMIT NO. 0241-01-C
PAGE 1 OF ____**

Issuance Date: _____

Expiration Date: _____

In accordance with the Hawaii Administrative Rules, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health the following certification at least annually, or more frequently as requested by the Department.

(Make Copies of the Compliance Certification Form for Future Use)

For Period: _____ Date: _____

Company/Facility Name: _____

Responsible Official (Print): _____

Title: _____

Responsible Official (Signature): _____

I certify that I have knowledge of the facts herein set forth, that the same are true, accurate and complete to the best of my knowledge and belief, and that all information not identified by me as confidential in nature shall be treated by Department of Health as public record. I further state that I will assume responsibility for the construction, modification, or operation of the source in accordance with the Hawaii Administrative Rules, Title 11, Chapter 60.1, Air Pollution Control, and any permit issued thereof.

**COMPLIANCE CERTIFICATION FORM
COVERED SOURCE PERMIT NO. 0241-01-C
(CONTINUED, PAGE 2 OF ___)**

Issuance Date:

Expiration Date:

The purpose of this form is to evaluate whether or not the facility was in compliance with the permit terms and conditions during the covered period. If there were any deviations to the permit terms and conditions during the covered period, the deviation(s) shall be certified as *intermittent compliance* for the particular permit term(s) or condition(s). Deviations include failure to monitor, record, report, or collect the minimum data required by the permit to show compliance. In the absence of any deviation, the particular permit term(s) or condition(s) may be certified as *continuous compliance*.

Instructions:

Please certify Sections A, B, and C below for continuous or intermittent compliance. Sections A and B are to be certified as a group of permit conditions. Section C shall be certified individually for each operational and emissions limit condition as listed in the Special Conditions section of the permit (list all applicable equipment for each condition). Any deviations shall also be listed individually and described in Section D. The facility may substitute its own generated form in verbatim for Sections C and D.

A. Attachment I, Standard Conditions

<u>Permit term/condition</u> All standard conditions	<u>Equipment(s)</u> All Equipment(s) listed in the permit	<u>Compliance</u> Continuous Intermittent
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B. Special Conditions - Monitoring, Recordkeeping, Reporting, Testing, and INSIG

<u>Permit term/condition</u> All monitoring conditions	<u>Equipment(s)</u> All Equipment(s) listed in the permit	<u>Compliance</u> Continuous Intermittent
<u>Permit term/condition</u> All recordkeeping conditions	<u>Equipment(s)</u> All Equipment(s) listed in the permit	<u>Compliance</u> Continuous Intermittent
<u>Permit term/condition</u> All reporting conditions	<u>Equipment(s)</u> All Equipment(s) listed in the permit	<u>Compliance</u> Continuous Intermittent
<u>Permit term/condition</u> All testing conditions	<u>Equipment(s)</u> All Equipment(s) listed in the permit	<u>Compliance</u> Continuous Intermittent
<u>Permit term/condition</u> All INSIG conditions	<u>Equipment(s)</u> All Equipment(s) listed in the permit	<u>Compliance</u> Continuous Intermittent

**COMPLIANCE CERTIFICATION FORM
COVERED SOURCE PERMIT NO. 0241-01-C
(CONTINUED, PAGE ____ OF ____)**

Issuance Date:

Expiration Date:

C. Special Conditions - Operational and Emissions Limitations

Each permit term/condition shall be identified in chronological order using attachment and section numbers (e.g., Attachment II, B.1, Attachment IIA, Special Condition No. B.1.f, etc.).

Each equipment shall be identified using the description stated in Section A of the Special Conditions (e.g., unit no., model no., serial no., etc.). Check all methods (as required by permit) used to determine the compliance status of the respective permit term/condition.

<u>Permit term/condition</u>	<u>Equipment(s)</u>	<u>Method</u>	<u>Compliance</u>
		monitoring recordkeeping reporting testing none of the above	Continuous Intermittent
		monitoring recordkeeping reporting testing none of the above	Continuous Intermittent
		monitoring recordkeeping reporting testing none of the above	Continuous Intermittent
		monitoring recordkeeping reporting testing none of the above	Continuous Intermittent
		monitoring recordkeeping reporting testing none of the above	Continuous Intermittent
		monitoring recordkeeping reporting testing none of the above	Continuous Intermittent
		monitoring recordkeeping reporting testing none of the above	Continuous Intermittent

(Make Additional Copies if Needed)

**COMPLIANCE CERTIFICATION FORM
COVERED SOURCE PERMIT NO. 0241-01-C
(CONTINUED, PAGE ___ OF ___)**

Issuance Date:

Expiration Date:

D. Deviations

<u>Permit Term/ Condition</u>	<u>Equipment(s) / Brief Summary of Deviation</u>	<u>Deviation Period time (am/pm) & date (mo/day/yr)</u>	<u>Date of Written Deviation Report to DOH (mo/day/yr)</u>
		Beginning: Ending:	

(Make Additional Copies if Needed)

**ANNUAL EMISSIONS REPORT FORM
CONCRETE BATCHING
COVERED SOURCE PERMIT NO. 0241-01-C**

Issuance Date: _____

Expiration Date: _____

In accordance with the Hawaii Administrative Rules, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health the nature and amounts of emissions.

(Make copies for Future Use)

For Period: _____ Date: _____

Facility Name: _____

Equipment Location: _____

Equipment Description: _____

(Provide Ton/Hr. Rated-Capacity for Primary Crusher OR Crushing Rate of the Plant)

Serial/ID No.: _____

I certify that I have knowledge of the facts herein set forth, that the same are true, accurate, and complete to the best of my knowledge and belief, and that all information not identified by me as confidential in nature shall be treated by the Department of Health as public record.

Responsible Official (PRINT): _____

TITLE: _____

Responsible Official (Signature): _____

<u>Type of Operation</u>	<u>Tons of Material (tons/year)</u>	<u>Air Pollution Control Measures in Use</u>	<u>Control Efficiency (% Reduction)</u>
1. Raw material entering primary crusher.	_____	_____	_____
2. Process material entering secondary crusher.	_____	_____	_____
3. Process material entering tertiary crusher.	_____	_____	_____
4. Process material entering fine mill.	_____	_____	_____

Additional Information:

- Number of Stockpiles _____ Control Measures _____
Percent Reduction _____
- Tons/hour of material entering primary crusher _____ tons/hr.

NOTE: Control measures include water sprays, partial enclosures, screens, housing and duct work to baghouses.

**Use the following Control Efficiencies, unless documentation is available to show otherwise:*

- Baghouses: 99%*
- Watersprays, Damp Material, or Shroud: 70%*
- Wet Slurry: 100%*

Efficiency factors may be reduced by the Department of Health, if there are any indications that a source's air pollution control device is not operating at the specified efficiency.

**ANNUAL EMISSIONS REPORT FORM
STONE QUARRYING AND PROCESSING
COVERED SOURCE PERMIT NO. 0241-01-C**

Issuance Date: _____

Expiration Date: _____

In accordance with the Hawaii Administrative Rules, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health the nature and amounts of emissions.

(Make copies for Future Use)

For Period: _____ Date: _____

Facility Name: _____

Equipment Location: _____

Equipment Description _____

Serial/ID No.: _____

I certify that I have knowledge of the facts herein set forth, that the same are true, accurate, and complete to the best of my knowledge and belief, and that all information not identified by me as confidential in nature shall be treated by the Department of Health as public record.

Responsible Official (PRINT): _____

TITLE: _____

Responsible Official (Signature): _____

Number of Storage Piles: Aggregate _____ Sand _____

Circle One of the following, or Identify: *Central* *Truck Mix* *Other* _____

Cement Unloading to Elevated Storage Silos: Pneumatic _____ Bucket _____

	<u>Type of Operation</u>	<u>Tons of Materials Handled (tons/year)</u>	<u>Air Pollution Control Devices in Use</u>	<u>Control Efficiency % Reduction*</u>
1.	Transfer of sand and aggregate to elevated bins.	_____	_____	_____
2.	Cement unloading to elevated storage silos.	_____	_____	_____
3.	Weigh hopper loading of cement, sand, and aggregate.	_____	_____	_____

*Use the following Control Efficiencies, unless documentation is available to show otherwise:

1. Baghouses: 99%
2. Watersprays, Damp Material, or Shroud: 70%
3. Wet Slurry: 100%

Efficiency factors may be reduced by the Department of Health, if there are any indications that a source's air pollution control device is not operating at the specified efficiency.

**MONITORING REPORT FORM
OPERATING HOURS - STONE PROCESSING AND CONCRETE BATCH PLANT
COVERED SOURCE PERMIT NO. 0241-01-C**

Issuance Date: _____

Expiration Date: _____

In accordance with the Hawaii Administrative Rules, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health the following information semi-annually:

(Make copies for Future Use)

For Period: _____ Date: _____

Company Name: _____

Facility Name: _____

Equipment Location: _____

Serial/ID No.: _____

I certify that I have knowledge of the facts herein set forth, that the same are true, accurate, and complete to the best of my knowledge and belief, and that all information not identified by me as confidential in nature shall be treated by the Department of Health as public record.

Responsible Official (PRINT): _____

TITLE: _____

Responsible Official (Signature): _____

For the reporting period identify:

1. All incidences when the facility operated greater than 16 hours per day.

Date	Hours Operated	Comments

2. Total Operating Hours

Month	Hours Operated	Rolling 12-month Average	Comments
January			
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			

PROPOSED

**MONITORING REPORT FORM
COMBUSTION OF USED OIL
COVERED SOURCE PERMIT NO. 0241-01-C**

Issuance Date: _____

Expiration Date: _____

In accordance with the Hawaii Administrative Rules, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health **semi-annually** the nature and amounts of emissions.

(Make copies for Future Use)

For Period: _____ Date: _____

Facility Name: _____

Equipment Location: _____

Equipment Description: _____

Equipment Capacity/Rating (specify units): _____
(Units such as Horsepower, kilowatt, tons/hour, etc.)

Serial/ID No.: _____

I certify that I have knowledge of the facts herein set forth, that the same are true, accurate and complete to the best of my knowledge and belief, and that all information not identified by me as confidential in nature shall be treated by the Department of Health as public record.

Responsible Official (PRINT):

TITLE: _____

Responsible Official (Signature): _____

Fuel Usage (Gallons per year): _____

Number of used oil analyses received/performed for this report period: _____

Did any of the used oil analyses indicate exceedances of the permitted limits: YES NO

If Yes, indicate the number of exceedances: _____

Indicate the average of the Used Oil analyses results received/performed:

<u>Constituent/Property</u>	<u>Average Results</u>
Arsenic	_____ ppm by weight
Cadmium	_____ ppm by weight
Chromium	_____ ppm by weight
Lead	_____ ppm by weight
Total Halogens	_____ ppm by weight
Sulfur	_____ % by weight
Flash Point	_____ ° F
Polychlorinated Biphenyls (PCB)	_____ ppm by weight

**MONITORING REPORT FORM
FUEL CONSUMPTION – DIESEL ENGINES
COVERED SOURCE PERMIT NO. 0241-01-C**

Issuance Date: _____

Expiration Date: _____

In accordance with the Hawaii Administrative Rules, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health the following information **semi-annually**:

(Make copies for Future Use)

For Period: _____ Date: _____

Facility Name: _____

Equipment Location: _____

Equipment Description: _____

Equipment Capacity/Rating (specify units): _____
(Units such as Horsepower, kilowatt, tons/hour, etc.)

Serial/ID No.: _____

Type of Fuel: _____ %Sulfur Content by Weight: _____ %Nitrogen: _____
%Ash: _____ %Lead: _____

I certify that I have knowledge of the facts herein set forth, that the same are true, accurate and complete to the best of my knowledge and belief, and that all information not identified by me as confidential in nature shall be treated by the Department of Health as public record.

Responsible Official (PRINT): _____

TITLE: _____

Responsible Official (Signature): _____

MONTH	MONTHLY FUEL CONSUMPTION	12-MO. ROLLING AVERAGE	NOTES
January			
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			

PROPOSED

TOTAL			
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**VISIBLE EMISSIONS FORM REQUIREMENTS
STATE OF HAWAII**

Issuance Date:

Expiration Date:

The following Visible Emissions (VE) Form shall be completed **monthly** (*each calendar month*) for each equipment subject to opacity limits in accordance with Method 9 or by use of a Ringelmann Chart as provided. At least **annually** (*calendar year*), VE observations shall be conducted for each equipment subject to opacity limits by a certified reader in accordance with Method 9. The VE Form shall be completed as follows:

1. Visible emissions observations shall take place during the day only and shall be compared to the Ringelmann Chart provided. The opacity shall be noted in five (5) percent increments (i.e., 25%).
2. Orient the sun within a 140 degree sector to your back. Provide a source layout sketch on the VE Form using the symbols as shown.
3. Stand at least three (3) stack heights, but not more than a quarter mile from the stack.
4. Two (2) observations shall be taken at fifteen (15) second intervals for six (6) consecutive minutes for each equipment.
5. The six (6) minute average opacity reading shall be calculated for each observation.
6. If possible, the observations shall be performed as follows:
 - a. Read from where the line of sight is at right angles to the wind direction.
 - b. The line of sight shall not include more than one (1) plume at a time.
 - c. Read at the point in the plume with the greatest opacity (without condensed water vapor), ideally while the plume is no wider than the stack diameter.
 - d. Read the plume at fifteen (15) second intervals only. Do not read continuously.
 - e. The equipment shall be operating at maximum permitted capacity.
7. If the equipment was shutdown for that period, briefly explain the reason for shutdown in the comment column.

The permittee shall retain the completed V.E. Forms for recordkeeping. These records shall be in a permanent form suitable for inspection, retained for a minimum of five (5) years, and made available to the Department of Health, or their representative upon request.

PROPOSED

VISIBLE EMISSIONS FORM COVERED SOURCE PERMIT NO. 0241-01-C

Issuance Date: _____

Expiration Date: _____

(Make Copies for Future Use for Each Stack or Emission Point)

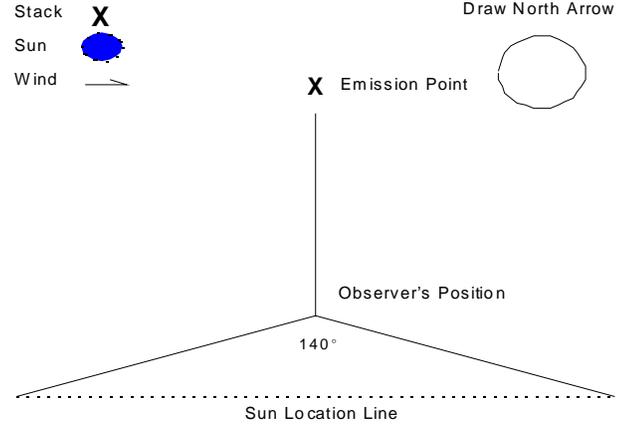
Permit No.: _____

Company Name: _____

Equipment and Fuel: _____

Site Conditions:

Stack height above ground (ft): _____
 Stack distance from observer (ft): _____
 Emission color (black or white): _____
 Sky conditions (% cloud cover): _____
 Wind speed (mph): _____
 Temperature (°F): _____
 Observer Name: _____
 Certified? (Yes/No): _____



Observation Date and Start Time: _____

SECONDS	0	15	30	45	COMMENTS
MINUTES					
1					
2					
3					
4					
5					
6					
Six (6) Minute Average Opacity Reading (%):					

Observation Date and Start Time: _____

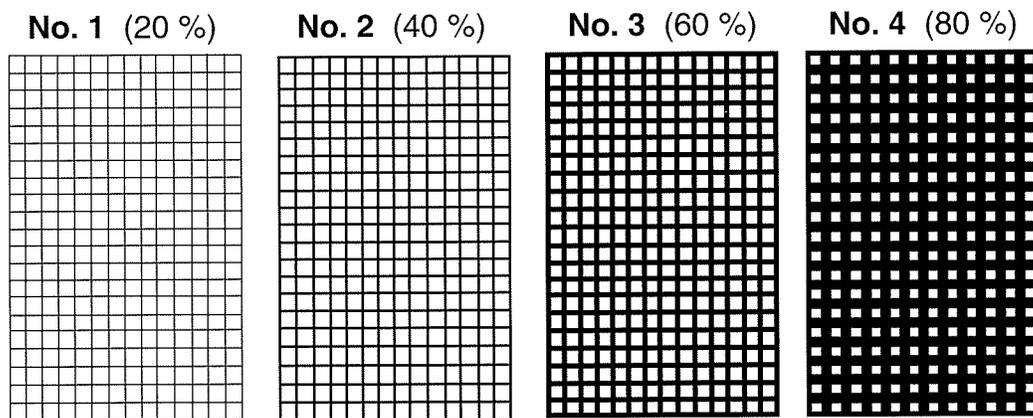
SECONDS	0	15	30	45	COMMENTS
MINUTES					
1					
2					
3					
4					
5					
6					

Six (6) Minute Average Opacity Reading (%):	
---	--

The Ringelmann Chart

In the late 1800's in Paris, France, Professor Maximilian Ringelmann developed the **Ringelmann Chart** to measure the combustion efficiency of coal-fired boilers. The shade of the smoke plume shows how well a boiler is operating - the poorer its combustion efficiency, the more unburned carbon particles in the smoke and the darker the plume.

Professor Ringelmann's chart established four measured shades of gray between white, valued at zero, and black, at five. These specific shades of gray, Ringelmann No. 1 to Ringelmann No. 4, can be accurately reproduced by placing a grid of black lines of a given width and spacing on a white background. Viewed from a distance, the grid lines and background merge into the shades of gray, to be compared to the shade of the smoke plume.



Ringelmann Chart (not to scale)

Regulating Visible Emissions

The Ringelmann Chart became one of the first tools used to measure visible emissions. Introduced into the United States in 1897, it was soon accepted as the standard measure of smoke density and was used by engineers for power plant testing and smokeless combustion studies. In 1910, the Chart was officially adopted as part of the Smoke Ordinance for Boston, Mass.

Many city, state, and federal regulations now set smoke density limits based on the Ringelmann Smoke Chart. Although not originally designed as a regulatory tool to control air pollution, it gives good practical results when used by well-trained observers.