ADMINISTRATIVE RECORD

Peterson Bros. Construction, Inc.

Application No. 0580-06 for Renewal

Self Propelled Crushing Plant

Located At: Various Temporary Sites, State of Hawaii

Temporary CSP No. 0580-01-CT

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Public Notice

REQUEST FOR PUBLIC COMMENTS
ON DRAFT AIR PERMIT
REGULATING THE EMISSIONS OF AIR POLLUTANTS

(Docket No. 24-CA-PA-13)

Pursuant to Hawaii Revised Statutes (HRS), Chapter 342B-13 and Hawaii Administrative Rules (HAR), Chapter 11-60.1, the Department of Health, State of Hawaii (DOH), is requesting public comments on the following **DRAFT PERMIT** presently under review for:

Temporary Covered Source Permit (CSP) No. 0580-01-CT
Application No. 0580-06 for Renewal
Peterson Bros. Construction, Inc.
Self-Propelled Crushing Plant
Located At: Various Temporary Sites, State of Hawaii
Initial Location: 94-1211 Kunia Road, Waipahu, Island of Oahu

The **DRAFT PERMIT** is described as follows:

The issuance of **Temporary CSP No. 0580-01-CT** will grant conditional approval for Peterson Bros. Construction, Inc. to continue to operate one (1) 507 TPH BR550-JG1 Komatsu Jaw Crusher. Water suppression will be used as necessary to minimize fugitive emissions from stone crushing, material transfer points, and stockpiles. The facility is subject to 40 Code of Federal Regulations (CFR) Part 60, Subpart OOO, Standards of Performance for Nonmetallic Mineral Processing Plants.

The **ADMINISTRATIVE RECORD**, consisting of the **APPLICATION** and non-confidential supporting material from the applicant, the permit review summary, and the **DRAFT PERMIT**, is available for public inspection online at: http://health.hawaii.gov/cab/public-notices/ and during regular office hours, Monday through Friday, 7:45 a.m. to 4:15 p.m., at the following location:

Oahu

State of Hawaii
Clean Air Branch
2827 Waimano Home Road, #130
Pearl City, Hawaii 96782

All comments on the draft permit and any request for a public hearing must be in writing, addressed to the Clean Air Branch at the above address and must be postmarked or received by **October 29, 2024.**

Any person may request a public hearing by submitting a written request that explains the party's interest and the reasons why a hearing is warranted. The DOH may hold a public hearing if a hearing would aid in DOH's decision. If a public hearing is warranted, a public notice for the hearing will be published at least thirty (30) days in advance of the hearing.

Interested persons may obtain copies of the administrative record or parts thereof by paying **five (5) cents per page copying costs**. Please send written requests to the Clean Air Branch listed above or call Mr. Al Jerome Natac at the Clean Air Branch at (808) 586-4200.

Comments on the draft permit should address, but need not be limited to, the permit conditions and the facility's compliance with federal and state air pollution laws, including: (1) the National and State Ambient Air Quality Standards; and (2) HRS, Chapter 342B and HAR, Chapter 11-60.1.

The DOH will make a final decision on the permit after considering all comments and will send notice of the final decision to each person who has submitted comments or requested such notice.

Kenneth S. Fink, MD, MGA, MPH
Director of Health

Draft Permit

DRAFT

CERTIFIED MAIL 24-xxxE CAB
RETURN RECEIPT REQUESTED File No. 0580
(XXXX XXXX XXXX XXXX XXXX)

DATE

Ms. Nalani Kay
Vice President – Office Operations
Peterson Bros. Construction, Inc.
P.O. Box 700153
Kapolei, Hawaii 96709

Dear Ms. Kay:

SUBJECT: Temporary Covered Source Permit (CSP) No. 0580-01-CT
Application No. 0580-06 for Renewal
Peterson Bros. Construction, Inc.
Self-Propelled Crushing Plant
Located At: Various Temporary Sites, State of Hawaii
Initial Location: 94-1211 Kunia Road, Wahiawa, Island of Oahu
Date of Expiration: DATE

The subject temporary CSP is issued in accordance with Hawaii Administrative Rules (HAR), Title 11, Chapter 60.1. The issuance of this permit is based on the plans and specifications that you submitted as part of your application received on February 7, 2023, and additional information received on May 16, 2023. A receipt for the application filing fee of $500.00 was previously sent to you. This permit supersedes Temporary CSP No. 0580-01-CT issued on August 2, 2018, in its entirety.

The temporary CSP is issued subject to the conditions/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

The following forms are enclosed for your use and submittal as required:

Compliance Certification Form
Change of Location Request for a Temporary Source
Annual Emissions Report Form: Crushing Plants
Monitoring Report Form: Opacity Exceedances

DRAFT

The following are enclosed for your use in monitoring visible emissions:

Visible Emissions Form Requirements, State of Hawaii
Visible Emissions Form

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 Department of Health, Clean Air Branch (herein after referred to as Department) 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.

If you have any questions, please contact Mr. Al Jerome Natac of the Clean Air Branch at (808) 586-4200.

Sincerely,

JOANNA L. SETO, P.E., CHIEF
Environmental Management Division

AJN:tkg

Enclosures

ATTACHMENT I: STANDARD CONDITIONS
TEMPORARY COVERED SOURCE PERMIT NO. 0580-01-CT

Issuance Date: DATE **Expiration Date: DATE**

This permit is granted in accordance with the 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, 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.

   (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 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 temporary CSP. There shall be no deviation unless additional or revised plans are submitted to and approved by the Department, 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 and U.S. EPA, Region 9, in writing of the following dates:

    a. 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;
    b. The **actual date of construction commencement** within fifteen (15) days after such date; and
    c. 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 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 copies of records required to be kept by the permittee. For information claimed to be confidential, the Director of Health (Director) may require the permittee to furnish such records not only to the Department 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 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:

    a. Identification of the specific equipment to be taken out of service, as well as its location and permit number;
    b. The expected length of time that the air pollution control equipment will be out of service;
    c. The nature and quantity of emissions of air pollutants likely to be emitted during the shutdown period;
    d. Measures such as the use of off-shift labor and equipment that will be taken to minimize the length of the shutdown period; and
    e. 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. **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 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 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.

(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, §11-60.1-90)

23. The permittee shall allow the Director, 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 a covered source covered by this permit**, the discontinuance shall be reported in writing to the Department 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 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 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:**

State of Hawaii
Clean Air Branch
2827 Waimano Home Road, #130
Pearl City, Hawaii 96782

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

Manager
Enforcement Division, Air Section
U.S. Environment Protection Agency, Region 9
75 Hawthorne Street, ENF-2-1
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)

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[1]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.

[2]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.

ATTACHMENT II: SPECIAL CONDITIONS
TEMPORARY COVERED SOURCE PERMIT NO. 0580-01-CT

Issuance Date: DATE **Expiration Date: DATE**

In addition to the Standard Conditions of the temporary CSP, the following Special Conditions shall apply to the permitted facility:

Section A. Equipment Description

1. This permit encompasses the following equipment and associated appurtenances:

   a. 507 TPH Komatsu Jaw Crusher, Model BR550-JG1, Serial No. 1092;
   b. Various conveyors; and
   c. Water spray system(s).

   (Auth.: HAR §11-60.1-3)

2. An identification tag or name plate shall be displayed on the equipment listed above to show model number, serial number, and manufacturer. The identification tag or name plate shall be permanently attached to the equipment at a conspicuous location.

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

Section B. Applicable Federal Regulations

1. The crushing plant is subject to the provisions of the following federal regulations:

   a. 40 Code of Federal Regulations (CFR) Part 60, Standards of Performance for New Stationary Sources, Subpart A, General Provisions; and
   b. 40 CFR Part 60, Standards of Performance for New Stationary Sources, Subpart OOO, Standards of Performance for Nonmetallic Mineral Processing Plants.

   (Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161; 40 CFR §60.1, §60.670)[1]

2. The permittee shall comply with all of the applicable provisions of these standards, including all emission limits, notification, testing, monitoring, and reporting requirements. The major requirements of these standards are detailed in the Special Conditions of this permit.

   (Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161; 40 CFR Part 60)[1]

Section C. Operational and Emission Limitations

1. Fugitive Emission Limits

   a. The permittee shall not cause to be discharged into the atmosphere from the 507 TPH crushing plant, fugitive emissions which exhibit greater than fifteen (15) percent opacity from the crusher and ten (10) percent opacity from any transfer point on the belt conveyors or from any other affected facility.

   (Auth.: HAR §11-60.1-3, §11-60.1-33, §11-60.1-90, §11-60.1-161; 40 CFR §60.672)[1]

2. Fugitive Emission Control

   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 (VE) of fugitive dust beyond the lot line of the property boundary on which the emissions originate.
   b. The permittee shall take measures to control and minimize fugitive dust (e.g., wet suppression, enclosures, dust screens, etc.) at all material transfer points, stockpiles, plant roads, loading and unloading operations, and throughout the facility. The Department may at any time require the permittee to further abate fugitive dust emissions if an inspection indicates poor or insufficient control.
   c. A water spray system shall be maintained and utilized, as necessary, during operation of the crushing plant to ensure compliance with the fugitive emission limits.
   d. The Department at any time may require continuous operation of the water sprays and/or additional water sprays or manual water spraying at pertinent locations if an inspection indicates that more fugitive dust control is needed.
   e. The crushing plant shall not be operated if observation, or the routine inspection required in Attachment II, Special Condition No. D.3.b, indicates a significant drop-in water flow rate and/or water pressure, plugged nozzle(s), leak in the piping system, or other problems which affect the efficiency of the water spray systems. The permittee shall investigate and correct the problem before resuming operations. The normal operating water pressure (psi) and/or flow rate (gal/min) for the water spray systems shall be established during the performance test conducted pursuant to Attachment II, Section F, and may be incorporated into the permit.
   f. The water spray system shall be properly maintained and kept in good operating condition at all times with scheduled inspections and maintenance as needed to ensure compliance with the fugitive emission limits.
   g. Water sprays and/or a water truck shall be maintained and utilized, as necessary, to minimize fugitive dust from plant operations (e.g., haul roads, stockpiles, material transfer points, etc.).

   (Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-33, §11-60.1-90)

3. Maintenance

The crushing plant and water spray system shall be properly maintained and kept in good operating condition at all times with scheduled inspections and maintenance as recommended by the manufacturer, and as needed.

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

4. Change of Locations

a. The operation of the equipment covered by this temporary CSP shall involve at least one (1) location change during the term of this permit. **Moving within a single property is not considered a location change.**
b. Location changes of the equipment shall be in accordance with Attachment II, Special Conditions, Section G. For each change in location, the Department reserves the right to impose additional operational controls and restrictions if a site evaluation indicates the controls and/or restrictions are necessary.

(Auth.: HAR §11-60.1-3, §11-60.1-81, §11-60.1-91)

Section D. Monitoring and Recordkeeping Requirements

1. Records

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 application. Support information includes all maintenance, inspection, and repair records, and copies of all reports required by this permit. These records shall be true, accurate, and maintained in a permanent form suitable for inspection and made available to the Department or its representative(s) upon request.

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

2. Production

The permittee shall maintain records on the total tons of material processed by the crushing plant for purposes of annual emissions reporting.

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

3. Water Spray System

a. A water pressure gauge and/or flow meter shall be installed, operated, and maintained to measure the pressure and/or flow rate of the water spray systems in psi and/or gallons per minute (gal/min).

b. The water spray systems, to include the water pump, piping system, spray nozzles, and any gauges (i.e., water pressure, water flow meter, etc.) shall be inspected routinely at least once per month to ensure proper operation of the water spray systems. Inspections of the water spray system shall be recorded in the Inspection, Maintenance, and Repair Log of Attachment II, Special Condition No. D.5.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90; 40 CFR §11-60.674)[1]

4. Visible Emissions

Except in those months when performance tests are conducted for fugitive emissions pursuant to Attachment II, Section F, the permittee shall conduct **monthly** (calendar month), VE observations for the crushing and screening plant by a certified reader in accordance with 40 CFR Part 60, Appendix A, Method 9, or U.S. EPA approved equivalent methods, or alternative methods with prior written approval from the Department and U.S. EPA. For each month, two (2) consecutive six (6) minute observations shall be taken at fifteen (15) second intervals for each emission point subject to an opacity limit. Records shall be completed and maintained in accordance with the *Visible Emissions Form Requirements*. For the VE observations of fugitive emissions, the observer shall comply with the following additional requirements:

a. The minimum distance between the observer and the emission source shall be 4.57 meters (fifteen (15) feet), but not greater than 402 meters (0.25 miles);
b. The observer shall, when possible, select a position that minimizes interference from other VE sources. The required observer position relative to the sun (Method 9; Section 2.1) shall be followed; and
c. The observer shall record the operating capacity (ton/hr) of the plant at the time the observations were made.

The Department may allow observation of a portion of the total fugitive emission points subject to opacity limits, if it can be demonstrated that operations have been in compliance with the permit. At a minimum, at least three (3) fugitive emission points shall be observed each month. The selected points shall include the primary crusher and a transfer point as applicable, or those points as specified by the Department. Allowance to observe a portion of the total required fugitive emission points shall be obtained in writing from the Department.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-32, §11-60.1-90;
SIP §11-60-24)[2]

5. Inspection, Maintenance and Repair Log

An inspection, maintenance, and repair log shall be maintained for the equipment covered under this permit. Inspection and replacement of parts and repairs shall be well documented. At a minimum, the following records shall be maintained:

a. The date of the inspection/maintenance/repair work;
b. A description of the part(s) inspected or repaired;
c. A description of the findings and any maintenance or repair work performed; and
d. The name and title of the personnel performing the inspection/work.

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

6. Performance Test

Performance tests shall be conducted on the plant pursuant to Attachment II, Section F. Test plans, summaries, and results shall be maintained in accordance with the requirements of this section.

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

Section E. Notification and Reporting Requirements

1. Standard Conditions Reporting

Notification and reporting pertaining to the following events shall be done in accordance with Attachment I, Standard Condition Nos. 14, 16, 17, and 24, respectively:

a. Anticipated date of initial start-up, actual date of construction commencement, and actual date of start-up;
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; 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)[2]

2. Monitoring Reports

The permittee shall submit **semi-annually** the following reports to the Department. 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), and shall be signed and dated by a responsible official. The following enclosed form shall be used for reporting:

Monitoring Report Form: Opacity Exceedances

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

3. Deviations

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

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

4. Annual Emissions Reports

As required by Attachment IV, Annual Emissions Reporting Requirements, 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 hazardous air pollutants. The reporting of annual emissions is due within **sixty (60) days** following the end of each calendar year. The following enclosed form shall be used for reporting:

Annual Emissions Report Form: Crushing Plants

Upon the written request of the permittee, the deadline for reporting of annual emissions may be extended, if the Department determines that reasonable justification exists for the extension.

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

5. Compliance Certification

During the permit term, the permittee shall submit at least **annually** to the Department 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:

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;

f. Brief description of any deviations including identifying as possible exceptions to compliance any periods during which compliance is required and in which the excursion or exceedances as defined in 40 CFR Part 64 occurred; and
g. Any additional information as required by the Department, including information to determine compliance.

The compliance certification shall be submitted within **sixty (60) 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 determines that reasonable justification exists for the extension.

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

6. Performance Testing

a. At least **thirty (30) days** prior to conducting a source performance test pursuant to Attachment II, Section F, the permittee shall submit a performance test plan in accordance with Attachment II, Special Condition No. F.5.
b. Within **sixty (60) days** after completion of a source performance test, the permittee shall submit a test report in accordance with Attachment II, Special Condition No. F.6.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90; 40 CFR §60.8)[1]

Section F. Testing Requirements

1. Annual Performance Testing

a. The permittee shall conduct or cause to be conducted an annual performance test on the 507 TPH crushing plant to determine the opacity of emissions, tests shall be conducted for each point subject to the opacity limits specified in Attachment II, Special Condition No. C.1.
b. The tests shall be conducted at the maximum expected operating capacity of the crushing plant.
c. The Department may require testing at other points in the facility or more frequent testing if an inspection indicates poor or insufficient controls.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, §11-60.1-161; 40 CFR §60.8, §60.675; SIP §11-60-15)[1,2]

2. Performance Test Methods

a. Performance tests for the determination of opacity shall be conducted by a certified reader using Method 9 of 40 CFR Part 60, Appendix A-4, and the procedures in 40 CFR §60.11, with the following additions for the fugitive emissions observations:

i. The minimum distance between the observer and the emission source shall be 4.57 meters (fifteen (15) feet);
ii. The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources. The required observer position relative to the sun (Method 9, Section 2.1) shall be followed; and
iii. The observer shall record the operating capacity (tons/hr) of the crushing plant at the time the observations were made.
iv. The observer shall record the flow rate for the water spray system, in gal/min, servicing the plant.

b. When determining compliance with the fugitive emissions standard of Attachment II, Special Condition No. C.1, the duration of Method 9 observations must be thirty (30) minutes (five (5) six-minute (6-minute) averages). Compliance with the applicable fugitive emission limits specified in Attachment II, Special Condition No. C.1, must be based on the average of the five (5) six-minute (6-minute) averages.
c. When determining compliance with the fugitive emissions standard of Attachment II, Special Condition No. C.1, if emissions from two (2) or more facilities continuously interfere so that the opacity of fugitive emissions from an individual affected facility cannot be read, either of the following procedures may be used:

i. Use for the combined emission stream, the highest fugitive opacity standard applicable to any of the individual affected facilities contributing to the emissions stream; or
ii. Separate the emissions so that the opacity of emissions from each affected facility can be read.

d. When determining compliance with the fugitive emissions standard of Attachment II, Special Condition No. C.1, a single VE observer may conduct VE observations for up to three (3) fugitive, stack, or vent emission points within a fifteen (15) second interval if the following conditions are met:

i. No more than three (3) emission points may be read concurrently;
ii. All three (3) emission points must be within a seventy (70) degree viewing sector or angle in front of the observer such that the proper sun position can be maintained for all three (3) points; and
iii. If an opacity reading for any one (1) of the three (3) emission points equals or exceeds the applicable standard, then the observer must stop taking readings for the other two (2) points and continue reading just that single point.

e. If, after **thirty (30) days** notice for an initially scheduled performance test, there is a delay, for example, due to operational problems, in conducting any rescheduled performance test required by Section F, the permittee shall submit a notice to the Department at least **seven (7) days** prior to any rescheduled performance test.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90; 40 CFR §60.8, §60.675)[1]

3. Deviations

   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 before the tests.

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

4. Performance Test Expense and Monitoring

   The performance tests shall be made at the expense of the permittee and shall be conducted at the maximum expected operating capacity of the crushing plant. All performance tests may be monitored by the Department.

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

5. Performance Test Plan

   At least **thirty (30) days** prior to conducting a performance test, the permittee shall submit a written performance test plan to the Department and U.S. EPA, Region 9, that includes date(s) of the test, test duration, test locations, test methods, source operation, locations of VE readings, 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 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; 40 CFR §60.8; SIP §11-60-15)[1,2]

6. Performance Test Report

   Within **sixty (60) days** after completion of a performance test, the permittee shall submit to the Department and U.S. EPA, Region 9, the test report which shall include the operating conditions of the equipment at the time of the test (e.g., operating rate in tons/hr, water meter flow rate in gal/min, etc.), locations where the VE were read, VE readings, location of water sprays, summarized test results, comparative results with the permit emission limits, other pertinent support calculations, and field/laboratory data. The results shall be recorded and reported in accordance with 40 CFR Part 60, Appendix A, and §60.8.

   (Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90; 40 CFR §60.8, §60.675;
   SIP §11-60-15)[1,2]

7. Performance Test Waiver

   Upon written request and justification, the Department may waive the requirement for, or a portion of, a specific performance 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 performance test 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)

Section G. Change of Location Requirements

1. For all location changes, the permittee shall submit the enclosed **Change of Location Request for a Temporary Source** form to the Department for approval **at least thirty (30) days prior to the change in location**, or such lesser time as designated and approved by the Department.

   (Auth.: HAR §11-60.1-3, §11-60.1-91)

2. With each change of location request, the permittee shall submit to the Department:

   a. A map of the proposed new temporary location showing the property boundary, fence lines, location of the equipment on the property, and the location of any other air pollution sources owned and operated by the permittee at the new location; and
   b. An area map showing the proposed new temporary location.

   (Auth.: HAR §11-60.1-3, §11-60.1-91)

3. The applicable filing fee shall be submitted to the Department with each change in location request and made payable to the **Clean Air Special Fund-COV**.

   (Auth.: HAR §11-60.1-3, §11-60.1-91)

4. The permittee shall submit any additional information as requested by the Department.

   (Auth.: HAR §11-60.1-3, §11-60.1-91)

5. Prior to any relocation, the Department shall approve, conditionally approve, or deny in writing each location change. If the Department denies a location change, the applicant may appeal the decision pursuant to HRS, Chapter 91.

   (Auth.: HAR §11-60.1-3, §11-60.1-91)

6. The change of location approval, or a copy thereof, shall be maintained near the source and shall be made available for inspection upon request by the Department.

   (Auth.: HAR §11-60.1-3, §11-60.1-91)

7. At each of the authorized locations, the permittee shall operate in accordance with this temporary CSP and all applicable requirements.

   (Auth.: HAR §11-60.1-3, §11-60.1-91)

Section H. Agency Notification

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

(Auth.: HAR §11-60.1-4, §11-60.1-90)

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[1] 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.

[2] 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.

ATTACHMENT II: INSIG
SPECIAL CONDITIONS – INSIGNIFICANT ACTIVITIES
TEMPORARY COVERED SOURCE PERMIT NO. 0580-01-CT

Issuance Date: DATE **Expiration Date: DATE**

In addition to the Standard Conditions of the temporary CSP, the following Special Conditions shall apply to the permitted facility:

Section A. Equipment Description

1. 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 VE, 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 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 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. The records shall be true, accurate and maintained in a permanent form suitable for inspection and made available to the Department 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 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;
6. Brief description of any deviations including identifying as possible exceptions to compliance any periods during which compliance is required and in which the excursion or exceedances as defined in 40 CFR Part 64 occurred; and
7. Any additional information as required by the Department including information to determine compliance.

The compliance certification shall be submitted within **sixty (60) 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 determines that reasonable justification exists for the extension.

In lieu of addressing each emission unit as specified in the 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 completely 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)

Section E. Agency Notification

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

(Auth.: HAR §11-60.1-4, §11-60.1-90)

ATTACHMENT III: ANNUAL FEE REQUIREMENTS
TEMPORARY COVERED SOURCE PERMIT NO. 0580-01-CT

Issuance Date: DATE **Expiration Date: DATE**

The following requirements for the submittal of annual fees are established pursuant to 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 **120 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 HAR, 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 be submitted on forms furnished by the Department.

4. The annual fees and the emission data shall be mailed to:

State of Hawaii
Clean Air Branch
2827 Waimano Home Road, #130
Pearl City, Hawaii 96782

ATTACHMENT IV: ANNUAL EMISSIONS REPORTING REQUIREMENTS
TEMPORARY COVERED SOURCE PERMIT NO. 0580-01-CT

Issuance Date: DATE **Expiration Date: DATE**

In accordance with the HAR, 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):

   Annual Emissions Report Form: Crushing Plants

2. The reporting period shall be from January 1 to December 31 of each year. All reports shall be submitted to the Department within **sixty (60) days** after the end of each calendar year and shall be mailed to the following address:

   State of Hawaii
   Clean Air Branch
   2827 Waimano Home Road, #130
   Pearl City, Hawaii 96782

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 upon request.

4. Any information submitted to the Department 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, including information concerning secret processes or methods of manufacture, by submitting a written request to the Director and clearly identifying the specific information that is to be accorded confidential treatment.

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COMPLIANCE CERTIFICATION FORM
TEMPORARY COVERED SOURCE PERMIT NO. 0580-01-CT
(PAGE 1 OF ___)

Issuance Date: DATE **Expiration Date: DATE**

In accordance with the Hawaii Administrative Rules (HAR), 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 HAR, Title 11, Chapter 60.1, Air Pollution Control, and any permit issued thereof.

COMPLIANCE CERTIFICATION FORM
TEMPORARY COVERED SOURCE PERMIT NO. 0580-01-CT
(CONTINUED, PAGE 2 OF ___)

Issuance Date: DATE **Expiration Date: 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

Permit term/condition	Equipment	Compliance
All standard conditions	All Equipment listed in the permit	☐ Continuous ☐ Intermittent

B. Special Conditions - Monitoring, Recordkeeping, Reporting, Testing, and INSIG

Permit term/condition	Equipment	Compliance
All monitoring conditions	All Equipment listed in the permit	☐ Continuous ☐ Intermittent
Permit term/condition All recordkeeping conditions	Equipment All Equipment listed in the permit	Compliance ☐ Continuous ☐ Intermittent
Permit term/condition All reporting conditions	Equipment All Equipment listed in the permit	Compliance ☐ Continuous ☐ Intermittent
Permit term/condition All testing conditions	Equipment All Equipment listed in the permit	Compliance ☐ Continuous ☐ Intermittent
Permit term/condition All INSIG conditions	Equipment All Equipment listed in the permit	Compliance ☐ Continuous ☐ Intermittent

COMPLIANCE CERTIFICATION FORM
TEMPORARY COVERED SOURCE PERMIT NO. 0580-01-CT
(CONTINUED, PAGE ___ OF ___)

Issuance Date: DATE **Expiration Date: 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.

Permit term/condition	Equipment	Method	Compliance
		☐ 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
TEMPORARY COVERED SOURCE PERMIT NO. 0580-01-CT
(CONTINUED, PAGE ___ OF ___)

Issuance Date: DATE **Expiration Date: DATE**

D. Deviations

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

(Make Additional Copies if Needed)

CHANGE OF LOCATION REQUEST
FOR A TEMPORARY SOURCE
TEMPORARY COVERED SOURCE PERMIT NO. 0580-01-CT
(PAGE 1 OF 3)

Issuance Date: DATE **Expiration Date: DATE**

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

(Make Copies for Future Use)

1. For all location changes, the permittee shall complete and submit this change of location request form to the Department of Health for approval **at least thirty (30) days prior to the change in location**, or such lesser time as designated and approved by the Department of Health.

2. With each change of location request, the permittee shall submit to the Department:

   a. A map of the proposed new temporary location showing the property boundary, fence lines, location of the equipment on the property, and the location of any other air pollution sources owned and operated by the permittee at the new location; and
   b. An area map showing the proposed new temporary location.

3. The permittee shall submit a filing fee with each change in location request. The filing fee shall be made payable to the **Clean Air Special Fund-COV** and is as follows:

   Covered Sources
   _X_ $100.00 for Non-Air Toxic
   ____ $300.00 for Air Toxic

4. The permittee shall submit any additional information as requested by the Department of Health.

5. This **Change of Location Request for a Temporary Source** form shall be mailed to the following address:

State of Hawaii
Clean Air Branch
2827 Waimano Home Road, #130
Pearl City, HI 96782

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1. Prior to any relocation, the Department of Health shall approve, conditionally approve, or deny in writing each location change. If the Department of Health denies a location change, the applicant may appeal the decision pursuant to Hawaii Revised Statutes (HRS), Chapter 91.
2. The change of location approval, or a copy thereof, shall be maintained near the source and shall be made available for inspection upon request by the Department of Health.
3. At each new authorized location, the permittee shall operate in accordance with the current temporary Covered Source Permit (CSP) and all applicable requirements.

CHANGE OF LOCATION REQUEST
FOR A TEMPORARY SOURCE
TEMPORARY COVERED SOURCE PERMIT NO. 0580-01-CT
(CONTINUED, PAGE 2 OF 3)

Issuance Date: DATE **Expiration Date: DATE**

1. Company Name: _____
2. Mailing Address: _____
   City: _____ State: _____ Zip Code: _____
   Phone Number: _____
3. Name of Owner/Owner's Agent: _____
   Title: _____ Phone Number: _____
4. Equipment Description (identify each piece of equipment to be relocated): _____
   _____
   _____
   _____
   _____
   _____
5. Current Location of Equipment: _____
6. **New Location Information**
   a. Street Address: _____
   b. City: _____ Zip Code: _____ Island: _____
   c. For sites with no street address, provide:
      Description of location: _____
      Or Tax map key: _____
      Or UTM Coordinates: _____
      Horizontal Datum: _____
   d. Plant Manager/Contact: _____ Phone Number: _____
   e. Proposed start date at new location: _____
   f. Estimated project duration at new location: _____
   g. Identify any other air pollution sources owned and operated by the permittee at the new location: _____
      _____
      _____
      _____
   h. Brief description of the work to be performed: _____
      _____

CHANGE OF LOCATION REQUEST
FOR A TEMPORARY SOURCE
TEMPORARY COVERED SOURCE PERMIT NO. 0580-01-CT
(CONTINUED, PAGE 3 OF 3)

Issuance Date: DATE **Expiration Date: DATE**

i. Provide estimated distances to the nearest residence and/or occupied establishments (e.g. schools, businesses, etc.):

Distance[1]	Identify if residence, school, business, etc.

[1]Include units, e.g. feet, miles.

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. I further state that no modifications will be made to the equipment and operational methods will remain similar as permitted under the current temporary covered source permit at this new location.

Responsible Official (Print):_____ Date:_____

Title:_____

Responsible Official (Signature):_____

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ANNUAL EMISSIONS REPORT FORM
CRUSHING PLANTS
TEMPORARY COVERED SOURCE PERMIT NO. 0580-01-CT

Issuance Date: DATE **Expiration Date: 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:_____

Company Name:_____

Facility Name:_____

Equipment Location:_____

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):_____

1. Report the tons of materials processed and air pollution control measures in use for the calendar year:

Type of Operation	Air Pollution Control Measures in Use	Control Efficiency (% Reduction)
Truck Unloading		
Crushing		
Conveyor Transfer		
Stockpiles		
Truck Loading		

Note: Control measures include water sprays, housing and duct work to baghouses.
Use the following Control Efficiencies, unless documentation is available to show otherwise:
Baghouses: 99%
Water sprays, or Shroud: 70%
*Subsequent transfer points of water sprayed material: 70-(5*n)%*
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.

2. Report the total tons of material processed by the crushing plant for the calendar year:

Type of Operation	Material Processed (Tons/Yr)
507 TPH Crushing Plant	

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MONITORING REPORT FORM
OPACITY EXCEEDANCES
TEMPORARY COVERED SOURCE PERMIT NO. 0580-01-CT

Issuance Date: DATE **Expiration Date: 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:_____

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):_____

Visible Emissions:

Report the following on the lines provided below: all date(s) and six (6) minute average opacity reading(s) which the opacity limit was exceeded during the monthly observations; or if there were no exceedances during the monthly observations, then write “no exceedances” in the comment column.

EQUIPMENT or EMISSION POINT DESCRIPTION	SERIAL/ID NO.	DATE	6 MIN. AVER. (%)	COMMENTS

VISIBLE EMISSIONS FORM REQUIREMENTS
STATE OF HAWAII
TEMPORARY COVERED SOURCE PERMIT NO. 0580-01-CT

Issuance Date: DATE **Expiration Date: DATE**

The ***Visible Emissions Form*** shall be completed **monthly** (*each calendar month*) for each equipment subject to opacity limits by a certified reader in accordance with 40 CFR Part 60, Appendix A, Method 9, or U.S. EPA approved equivalent methods, or alternative methods with prior written approval from the Department of Health and U.S. EPA. The visible emission (VE) form shall be completed as follows:

1. VE observations shall take place during the day only. The opacity shall be noted in five (5) percent increments (e.g., 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. For VE observations of stacks, stand at least three (3) stack heights but not more than a quarter mile from the stack.

4. For VE observations of fugitive emissions from crushing and screening plants, stand at least 4.57 meters (fifteen (15) feet) from the VE source, but not more than a quarter mile from the VE source.

5. Two (2) consecutive six (6) minute observations shall be taken at fifteen (15) second intervals for each stack or emission point.

6. The six (6) minute average opacity reading shall be calculated for each observation.

7. 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 the maximum permitted capacity.

8. If the equipment was shut-down for that period, briefly explain the reason for shut-down in the comment column.

The permittee shall retain the completed VE 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.

Any required initial and annual performance test performed in accordance with Method 9 by a certified reader shall satisfy the respective equipment's VE monitoring requirements for the month the performance test is performed.

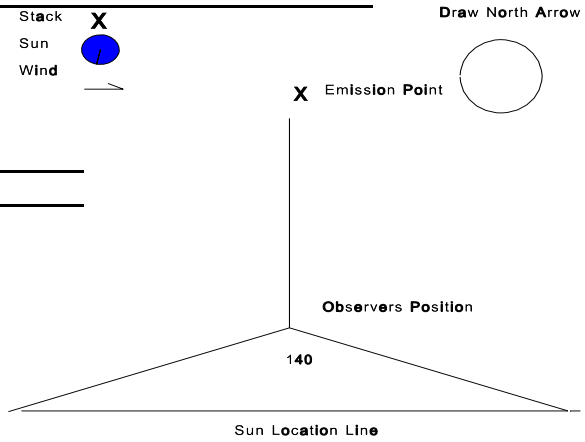
DRAFT

VISIBLE EMISSIONS FORM
TEMPORARY COVERED SOURCE PERMIT NO. 0580-01-CT

Issuance Date: DATE **Expiration Date: DATE**

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

Company Name: _____
For stacks, describe equipment and fuel: _____
For fugitive emissions from crushers, describe:
Fugitive emission point: _____
Plant Production (tons/hr): _____
(During observation)



Site Conditions:
Emission point or stack height above ground (ft): _____
Emission point or 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				
MINUTES	0	15	30	45	COMMENTS
1					
2					
3					
4					
5					
6					
Six (6) Minute Average Opacity Reading (%):					

Observation Date and Start Time: _____

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

Draft Review Summary

DRAFT

PERMIT APPLICATION REVIEW
TEMPORARY COVERED SOURCE PERMIT (CSP) No. 0580-01-CT

Application No.:	Application No. 0580-06 for Renewal
Applicant:	Peterson Bros. Construction, Inc.
Facility:	Crushing Plant
SIC Code:	1429 (Crushed and Broken Stone, Not Elsewhere Classified)
Location:	Various Temporary Sites, State of Hawaii
Initial Location:	94-1211 Kunia Road, Waipahu, Island of Oahu UTM: 4Q; 598,852.00 m E, 2,370,290.00 m N (NAD-83)
Current Location:	At Initial Location
Responsible Official:	Ms. Nalani Kay Vice President – Office Operations (808) 372-6913
Contact Person:	Ms. Nalani Kay Vice President – Office Operations (808) 326-9645 Mr. James W. Morrow Environmental Consultant (808) 942-9096
Mailing Address:	P.O. Box 700153 Kapolei, Hawaii 96709

Background:

Peterson Bros. Construction, Inc. submitted a renewal application for Temporary CSP No. 0580-01-CT on February 7, 2023. Equipment covered by the permit include one (1) track-mounted 507 TPH Komatsu Jaw Crusher with exempt 306 HP Komatsu diesel engine located at various locations in the State of Hawaii.

The crusher is self-propelled by an exempt integrated diesel engine pursuant to Hawaii Administrative Rules (HAR) §11-60.1-82(d)(4) which exempts internal combustion engines propelling mobile sources. The diesel engine is fired only with fuel oil No. 2 with a maximum sulfur content not to exceed 0.0015% by weight.

Raw material (soil and stone) is dropped into the vibrating grizzly by a loader or excavator and passed to the primary jaw crusher. The crusher reduces the size of the stone to pass through the adjustable closed stroke opening. The crushed material drops on to a moving conveyor belt and is transported to a stockpile. The entire process is powered by a 306 HP Komatsu engine (nonroad) which also provide power to the tracks that move the crusher.

There are no proposed changes to the existing equipment operations, limits, terms, and insignificant activities.

Equipment:

Equipment Description	Make and Model No.	Serial No.
One (1) 507 TPH Jaw Crusher (Mfg. 2006) on tracks with one (1) 306 HP diesel engine and attached conveyors and water sprays	Komatsu, BR550-JG1 Komatsu, Model SAA6D125E-2 (Exempt Diesel Engine)	1092 211385

Air Pollution Control:

Pollutants from the facility are fugitive dust. There are no changes to existing air pollution control equipment and monitoring devices listed in the previous permit review. Water spray will be applied to the feed material before loading onto the grizzly feeder. The Komatsu BR550-JG1 Jaw Crusher is equipped with a dust suppression system consisting of water spray nozzles located at the jaw and at material transfer points. Therefore, a control efficiency of seventy (70) percent will be applied to the emission points after the material has been crushed.

Applicable Requirements:

Hawaii Administrative Rules (HAR)

- Title 11 Chapter 59, Ambient Air Quality Standards
- Title 11 Chapter 60.1, Air Pollution Control
  - Subchapter 1, General Requirements
  - Subchapter 2, General Prohibitions
    - 11-60.1-31, Applicability
    - 11-60.1-32, Visible Emissions
    - 11-60.1-33, Fugitive Dust
  - Subchapter 5, Covered Sources
  - Subchapter 6, Fees for Covered Sources, Noncovered Sources and Agricultural Burning
    - 11-60.1-111, Definitions
    - 11-60.1-112, General Fee Provisions for Covered Sources
    - 11-60.1-113, Application Fees for Covered Sources
    - 11-60.1-114, Annual Fees for Covered Sources
    - 11-60.1-115, Basis of Annual Fees for Covered Sources
  - Subchapter 8, Standards of Performance for Stationary Sources
    - 11-60.1-161, New Source Performance Standards
  - Subchapter 10, Field Citations

New Source Performance Standards (NSPS) / National Emission Standards for Hazardous Air Pollutants (NESHAP)

This source is subject to 40 Code of Federal Regulations (CFR) Part 60, NSPS, Subpart OOO – Standards of Performance for Non-metallic Mineral Processing Plants, because the maximum capacity of the crushing plant, exceeds 150 TPH and was manufactured after August 31, 1983.

The 507 TPH Jaw Crusher (Mfg. 2006) was manufactured before April 22, 2008. Equipment that commenced construction, modification, or reconstruction on or after April 22, 2008, are subject to more stringent fugitive emission opacity limits.

This source is not subject to 40 CFR Part 60, Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines, because the 306 HP diesel engine propel the tracks of the crusher and is considered a nonroad engine as defined in 40 CFR §1068.30. Subpart IIII applies to stationary internal combustion engines that are not nonroad engines.

This source is not subject to 40 CFR Part 61, NESHAP, as there are no standards in 40 CFR Part 61 applicable to this facility.

This source is not subject to 40 CFR Part 63, Subpart ZZZZ – National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE), because the 306 HP diesel engine propel the tracks of the crusher and is considered a nonroad engine as defined in 40 CFR §1068.30. Subpart ZZZZ applies to stationary internal combustion engines that are not nonroad engines.

Prevention of Significant Deterioration (PSD)
This source is not subject to PSD requirements because it is not a major stationary source as defined in 40 CFR §52.21 and HAR, Title 11, Chapter 60.1, Subchapter 7 and potential emissions from the facility are less than 250 tons per year, which is the trigger level for a non-listed source.

Compliance Assurance Monitoring (CAM)
This source is not subject to CAM because the facility is not a major source.

The purpose of CAM is to provide a reasonable assurance that compliance is being achieved with large emissions units that rely on air pollution control device equipment to meet an emissions limit or standard. Pursuant to 40 CFR Part 64, for CAM to be applicable, the emissions unit must:

(1) Be located at a major source;
(2) Be subject to an emissions limit or standard;
(3) Use a control device to achieve compliance;
(4) Have potential pre-control emissions that are one hundred (100) percent of the major source level; and
(5) Not otherwise be exempt from CAM.

Air Emissions Reporting Requirements (AERR)
This source is not subject to AERR, 40 CFR Part 51, Subpart A.

Emissions that can be considered reasonably capturable during rock crushing are included in the determination of whether this source is subject to AERR. Fugitive emissions that are not considered reasonably capturable, have not been included in the determination of whether this stationary source is subject to AERR.

The diesel engine on the 507 TPH crusher is considered a nonroad mobile source. Emissions from nonroad mobile sources are either reported using the latest Environmental Protection Agency (EPA) developed mobile emissions models or by the state accepting existing EPA emission estimates. For this reason, emissions from the diesel engine are not included in the determination of whether this stationary source is subject to AERR.

Pollutant	Emissions	AERR Trigger Level (Type B) (tons/yr)
SO_2	-	≥100 TPY
VOC	-	≥100 TPY
NO_x	-	≥100 TPY
CO	-	≥1000 TPY
PM_{10}	1.54	≥100 TPY
$PM_{2.5}$	0.32	≥100 TPY

This table only includes emissions considered reasonably capturable.

CAB In-house Annual Emissions Reporting

The facility is subject to in-house annual emissions reporting because this facility holds a temporary CSP.

CAB in-house annual emissions reporting is required for: 1) all facilities holding a temporary CSP; and 2) noncovered source facilities with a potential to emit, based on permit limits, equal to or above the CAB in-house annual emissions reporting trigger levels.

CAB In-House Annual Emissions Reporting Applicability

Pollutant	Emissions Based on 8,760 hrs/yr (tons/yr)	CAB In-House Annual Emissions Reporting Trigger Level (tons/yr)
SO_2	-	≥25
VOC	-	≥25
NO_x	-	≥25
CO	-	≥250
PM	52.15	≥25
PM_{10}	18.02	≥25
$PM_{2.5}$	2.43	≥25
Total HAPs	-	≥5

This table includes all fugitive emissions, capturable and non-capturable.

Maximum Achievable Control Technology (MACT)

This source is not subject to MACT because the facility is not a major source of hazardous air pollutants (HAPS).

Best Available Control Technology (BACT)
This source is not subject to a BACT analysis.

A BACT analysis is required for new sources and significant modifications to sources that have the potential to emit or increase emissions above significant levels, as defined in HAR §11-60.1-1, considering any limitations. Fugitive emissions from the 507 TPH crusher, that are considered reasonably capturable, do not exceed significant levels.

Insignificant Activities/Exemptions:

The following diesel engine is exempt in accordance with HAR §11-60.1-82(d)(4) which exempts internal combustion engines propelling mobile sources because it is used to propel the crusher:

One (1) 306 HP Komatsu Diesel Engine, Model SAA6D125E-2, Serial No. 211385.

Alternate Operating Scenarios:

No alternate operating scenario is proposed.

Project Emissions:

507 TPH Self-propelled Jaw Crusher
The maximum capacity of the plant is listed as 507 TPH based on manufacturer's data submitted by the applicant. Water sprays will be used to control PM emissions. Emission factors for the self-propelled crushing plant were taken from AP-42, Table 11.19.2-2 Emission Factors for Crushed Stone Processing Operations (8/04). Approximately fifty-one (51) percent of particulate emissions are assumed to be PM_{10}. $PM_{2.5}$ assumed to be fifteen (15) percent of particulate emissions per AP-42 Appendix B.2 (1/95).

PM	Capacity (ton/hour)	EF (lb/ton)	Emissions (lb/hr)	Emissions (TPY) 8,760 hr/yr
Truck Unloading	507	3.14E-05	0.02	0.07
507 TPH Self-Propelled Jaw Crusher	507	1.20E-03	0.61	2.66
Conveyor Transfer Point (3x)	507	1.40E-04	0.21	0.93
Total PM			0.84	3.67

PM_{10}	Capacity (ton/hour)	EF (lb/ton)	Emissions (lb/hr)	Emissions (TPY) 8,760 hr/yr
Truck Unloading	507	1.60E-05	0.01	0.04
507 TPH Self-Propelled Jaw Crusher	507	5.40E-04	0.27	1.20
Conveyor Transfer Point (3x)	507	4.60E-05	0.07	0.31
Total PM_{10}			0.35	1.54

$PM_{2.5}$	Capacity (ton/hour)	EF (lb/ton)	Emissions (lb/hr)	Emissions (TPY) 8,760 hr/yr
Truck Unloading	507	4.71E-06	0.00	0.01
507 TPH Self-Propelled Jaw Crusher	507	1.00E-04	0.05	0.22
Conveyor Transfer Point (3x)	507	1.30E-05	0.02	0.09
Total $PM_{2.5}$			0.07	0.32

Storage Piles

Storage pile emissions are based on emission factors from AP-42 Section 13.2.4 – Aggregate handling and Storage Piles. Water suppression provides seventy (70) percent control efficiency.

Storage Piles	
Pollutant	Emissions (TPY) (8,760 hr/yr)
PM	18.89
PM_{10}	8.94
$PM_{2.5}$	1.35

Unpaved Roads

The maximum capacity of the crusher was used to calculate emissions. A seventy (70) percent control efficiency was assumed for water suppression to control fugitive dust. Emissions were based on emission factors from AP-42 Section 13.2.2 (11/06) – Unpaved Roads.

Unpaved Roads	
Pollutant	Emissions (TPY) (8,760 hr/yr)
PM	29.59
PM_{10}	7.54
$PM_{2.5}$	0.75

Total Facility Emissions

Total without Fugitive Emissions Included.

Pollutant	Emissions (TPY) 8,760 hr/yr
PM	3.67
PM_{10}	1.54
$PM_{2.5}$	0.32

Total Facility Emissions
Total with Fugitive Emissions Included.

Pollutant	Emissions (TPY) 8,760 hr/yr
PM	52.15
PM_{10}	18.02
$PM_{2.5}$	2.43

Synthetic Minor Source/Major Source Applicability
A synthetic minor source is a facility that is potentially major, as defined in HAR §11-60.1-1, but is made non-major through federally enforceable permit conditions. This facility is not a synthetic minor source because potential emissions do not exceed major source thresholds when the facility is operated without limitations for 8,760 hours/year.

Pollutant	Emissions Based on 8,760 hrs/yr (tons/yr)	Major Source Trigger (tons/yr)
SO_2	-	≥100
VOC	-	≥100
NO_x	-	≥100
CO	-	≥100
PM	3.67	None
PM_{10}	1.54	≥100
$PM_{2.5}$	0.32	≥100
Total HAPs	-	≥10 single HAP or ≥25 combined HAPs

This table only includes emissions considered reasonably capturable.

Ambient Air Quality Assessment:

An ambient air quality assessment is generally required for new sources or modified sources with emission increases. An ambient air quality assessment is not required for the exempt nonroad diesel engine on the self-propelled (track-mounted) crushing plant since the engine is exempt. Other emissions from the mobile crusher are fugitive in nature and do not require an ambient air quality assessment.

Peterson Bros. Construction, Inc. crushing plant is an existing source and is not proposing any modifications that would require modeling analysis to be conducted.

Changes since previous permit issuance:

The transfer of ownership dated December 23, 2020, transferred this permit from Kalaka Nui to Peterson Bros. Construction, Inc. The transfer of ownership request did not include the 400 TPH Screen Machine mobile screening plant, Model Spyder 516T, Serial No. D516TSPYF2JF1938 which was retained by Kalaka Nui, Inc. at the time.

Pre-approved Location Change statements were removed from Attachment II, Special Condition No. C.3 and E.7 (this was applicable only to the Kalaka Nui Location and pre-approved location changes are no longer granted).

Significant Permit Conditions:

1. This permit is subject to change of location conditions for temporary CSP with NO PERMITTED ENGINES.

2. The 507 TPH Komatsu Jaw Crusher, Model BR550-JG1, Serial No. 1092 was manufactured in 2006. Therefore, performance testing, reporting, and record keeping are required in the permit to meet the requirements of 40 CFR Part 60, Subpart OOO. The mobile crusher commenced construction, modification, or reconstruction after August 31, 1983, but before April 22, 2008, and is subject to the following limits.

   Fugitive Emission Limits

   a. The permittee shall not cause to be discharged into the atmosphere from the 507 TPH crushing plant, fugitive emissions which exhibit greater than fifteen percent (15) percent opacity.
   b. The permittee shall not cause to be discharged into the atmosphere from any transfer point on the belt conveyors or from any other affected facility, fugitive emissions which exhibit greater than ten (10) percent opacity.

   Reason: 40 CFR Part 60, Subpart OOO, provisions.

Conclusion and Recommendations:

Peterson Bros. Construction, Inc. submitted a permit renewal application on February 7, 2023. Potential emissions in this review are based on the maximum rated capacity of the crushing plant and 8,760 hours of operation per year. Recommend issuance of the temporary CSP subject to the incorporation of the significant permit conditions, thirty (30) day public comment period, and forty-five (45) day EPA review period.

Al Jerome Natac
August 23, 2024

Application
and
Supporting Information

HAND DELIVERED
FEB - 7 2023

J. W. MORROW

Environmental Management
Consultant

February 3, 2023

Ms. Marianne Rossio, P.E.
Manager, Clean Air Branch
Department of Health
Hale Ola Building, Room 130
2827 Waimano Home Road
Pearl City, Hawaii 96782

Dear Ms. Rossio:

Subject: Application for a Covered Source Permit Renewal
CSP 0580-01-CT
Peterson Bros. Construction, Inc.

I have enclosed the subject permit application for your review and action. A check in the amount of $500 for the required application fee is also attached.

Please contact me at 942-9096 if you or your staff have any questions or comments concerning this application.

Sincerely,

James W. Morrow

James W. Morrow, DrPH

JWM:jm
230203

Enclosures

cf: Peterson Bros. Construction, Inc.

APPLICATION FOR A COVERED SOURCE PERMIT RENEWAL

Covered Source Permit (CSP) No. 0580-01-CT

507 TPH Mobile Jaw Crusher

SUBMITTED TO:

State of Hawaii
Department of Health
Clean Air Branch

SUBMITTED BY:

Peterson Bros. Construction, Inc.
P.O. Box 700153
Kapolei, Hawaii 96709

February 2023

CONTENTS

File No. 0580

FORM S-1

Peterson Bros. Construction

File/Application No.: 0580

S-1: Standard Air Pollution Control Permit Application Form

(Covered Source Permit and Noncovered Source Permit)

State of Hawaii
Department of Health
Environmental Management Division
Clean Air Branch
P.O. Box 3378 • Honolulu, HI 96801-3378 • Phone: (808) 586-4200

1. Company Name: **Peterson Bros. Construction, Inc.**
2. Facility Name (if different from the Company): **507 TPH Komatsu jaw crusher**
3. Mailing Address: **P.O. Box 700153**

   City: **Kapolei** State: **HI** Zip Code: **96709**

   Phone Number: **(808) 372-6913**
4. Name of Owner/Owner's Agent: **J. W. Morrow**

   Title: **Environmental Management Consultant** Phone: **(808) 942-9096**

   Mailing Address: **1481 South King Street, Suite 548**

   City: **Honolulu** State: **HI** Zip Code: **96814**
5. Plant Site Manager/Other Contact: **Nalani Kay**

   Title: **Vice President - Office Operations** Phone: **(808) 372-6913**

   Mailing Address: **P.O. Box 700153**

   City: **Kapolei** State: **HI** Zip Code: **96709**
6. Permit Application Basis: (Check all applicable categories.)

   ☐ Initial Permit for a New Source ☐ Initial Permit for an Existing Source

   ☑ Renewal of Existing Permit ☐ General Permit

   ☐ Temporary Source ☐ Transfer of Permit

   ☐ Modification to a Covered Source: → Is Modification? ☐ Significant ☐ Minor ☐ Uncertain

   ☐ Modification to a Noncovered Source
7. If renewal or modification, include existing permit number: **CSP 0580-01-CT**
8. Does the Proposed Source require a County Special Management Area Permit? ☐ Yes ☑ No
9. Type of Source (Check One): ☑ Covered Source ☐ Covered and PSD Source

   ☐ Noncovered Source ☐ Uncertain
10. Standard Industrial Classification Code (SICC), if known: **1429**

11. Proposed Equipment/Plant Location (e.g. street address): **94-1211 Kunia Road**

City: **Kunia** State: **HI** Zip Code: **96786**

UTM Coordinates (meters): East: **598,852** North: **2,370,290**

UTM Zone: **4** UTM Horizontal Datum: ☐ Old Hawaiian ☐ NAD-27 ☑ NAD-83

12. General Nature of Business: **general contracting**

13. Date of Planned Commencement of Construction or Modification: **N/A**

14. Is ***any*** of the equipment to be leased to another individual or entity? ☐ Yes ☑ No

15. Type of Organization: ☑ Corporation ☐ Individual Owner ☐ Partnership

☐ Government Agency (Government Facility Code: _____)

☐ Other: _____

Any applicant for a permit who fails to submit any relevant facts or who has submitted incorrect information in any permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrected information. In addition, an applicant shall provide additional information as necessary to address any requirements that become applicable to the source after the date it filed a complete application, but prior to the issuance of the noncovered source permit or release of a draft covered source permit. (HAR §11-60.1-64 & 11-60.1-84)

RESPONSIBLE OFFICIAL (as defined in HAR §11-60.1-1)

Name (Last): **Nalani** (First): **Kay** (MI): _____

Title: **Vice President - Office Operations** Phone: **(808) 372-6913**

Mailing Address: **P.O. Box 700153**

City: **Kapolei** State: **HI** Zip Code: **96709**

Certification by Responsible Official (pursuant to HAR §11-60.1-4)

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. I further state that I will assume responsibility for the construction, modification, or operation of the source in accordance with the Hawaii Administrative Rules (HAR), Title 11, Chapter 60.1, Air Pollution Control, and any permit issued thereof.

NAME (Print/Type): **Nalani Kay**

(Signature): _____ Date: 1/27/23

FOR AGENCY USE ONLY:

File/Application No.: _____

Island: _____

Date Received: _____

1. INTRODUCTION

Peterson Bros. Construction, Inc. (the "Applicant") is submitting herewith its permit renewal application for CSP No. 0580-01-CT in accordance with Hawaii Administrative Rules (HAR) Chapter 11-60.1. The application package includes Forms S-1, S-3, C-1 and C-2.

2. APPLICABILITY

§11-60.1-101 requires submittal of a renewal application, subject to the same requirements for an initial application for a covered source permit, a minimum of twelve months prior to the date of permit expiration unless a request for extension is submitted. CSP No. 0580-01-CT expires on 1 August 2023.

3. FORM S-1 INFORMATION

a. Emissions Units Table. See Table S-1.1.

b. Process Flow Diagram. The process is self-evident as rock and soil are dropped into a vibrating feeder, conveyed to the jaw crusher where it is reduced in size and conveyed to a stockpile. The crusher is powered by an exempt nonroad diesel engine.

c. Description of Emissions Points. There are no stationary point sources of emissions as the engine that powers this mobile crusher, is a "nonroad" engine.

d. Emission Calculations. See Appendix A.

e. Facility Location Map. See Figures S-1.1 for the current location of the equipment.

COMPANY NAME: Peterson Bros. Construction, Inc.

File No. 0580

LOCATION: Waianae, HI

(Make as many copies of this page as necessary)

TABLE S-1.1

EMISSIONS UNITS TABLE

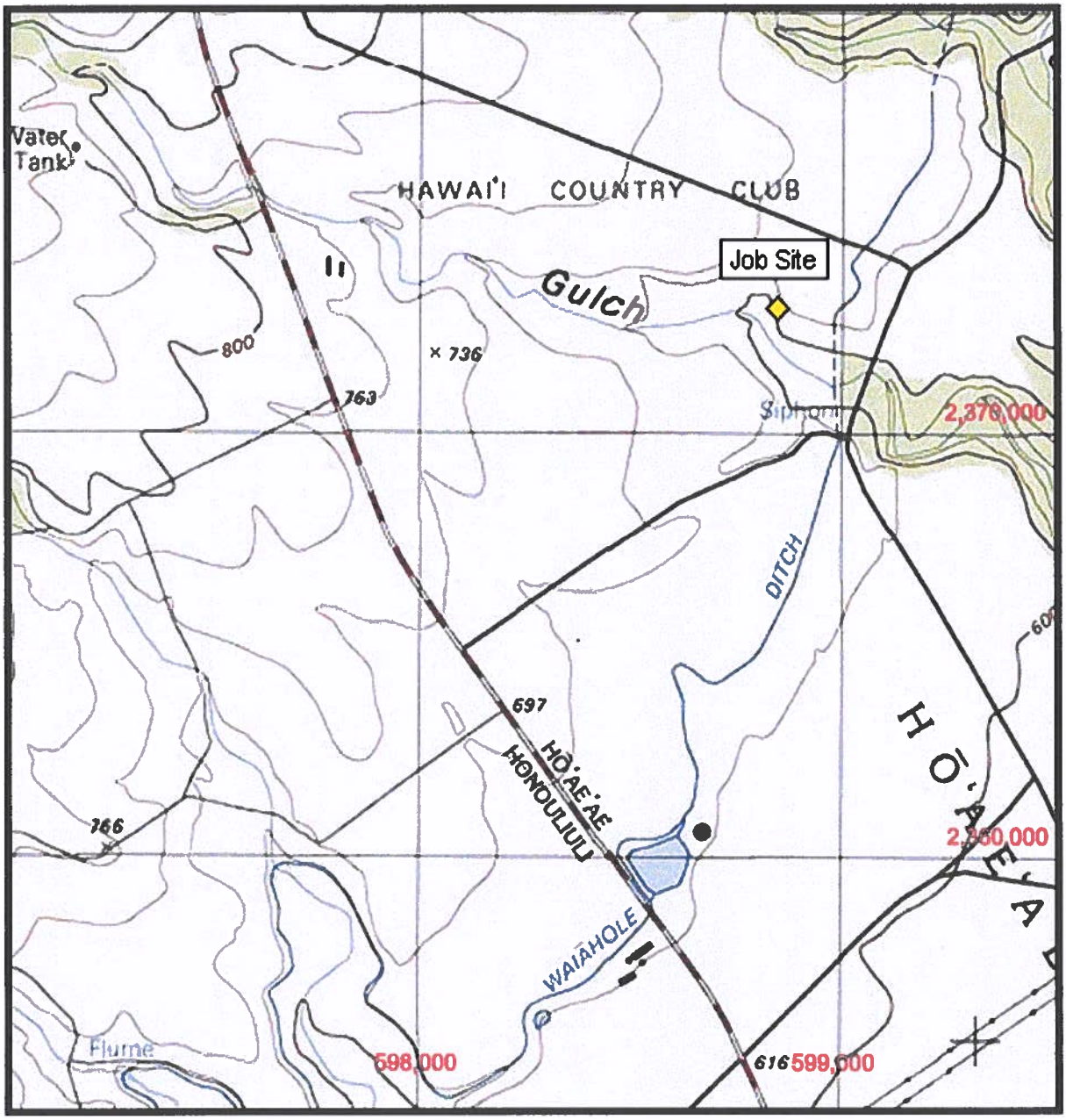
Review of applications and issuance of permits will be expedited by supplying all necessary information on this table.

AIR POLLUTANT DATA: EMISSION POINTS				AIR POLLUTANT	AIR POLLUTANT EMISSION RATE		UTM Zone: 4 Horizontal Datum [a]: NAD-83		Stack Source Parameters						
Stack No.	Unit No.	Equipment Name/Description and SICC Number	Equip. Date	Regulated/ Hazardous Air Pollutant Name & CAS#	#/hr	Tons /yr	Coordinates (meters)		Stack Height (m)	Direction (u,d,h)[b]	Inside Diameter (m)	Velocity (m/s)	Actual Flow Rate (m3/s)	Temp (°K)	Capped? (Y/N)
		Fugitive dust sources 507 TPH Komatsu jaw	existing	PM/TSP	0.82	19.42	East North	598,852 2,370,290							
				PM10	0.35	9.03	East North								
				PM2.5	0.07	2.66	East North								
							East North								
							East North								
							East North								
							East North								
							East North								
							East North								
							East North								
							East North								
							East North								
							East North								
							East North								
							East North								

(a) Specify UTM Horizontal Datum as Old Hawaiian, NAD-83, or NAD-27

(b) Specify the direction of the stack exhaust as u= upward, d= downard, or h = horizontal

FIGURE S-1.1
SOURCE LOCATION



USGS Quad Schofield Barracks (1998)
1:24,000 (NAD-83)

File No. 0580

FORM S-3

Peterson Bros. Construction

I. §11-60.1-101 REQUIREMENTS

A. Changes. No changes have been made since the original permit was issued and no changes are proposed herein.

B. Equipment Specifications. See Table S-3.1. Manufacturer's literature is enclosed at Appendix B.

TABLE S-3.1

EQUIPMENT SPECIFICATIONS

Parameter	Komatsu BR550-JG1 Mobile Jaw Crusher
Serial Number	1092
Maximum design capacity	507 T/hr
Fuel type	N/A
Fuel use	N/A
Production capacity	507 T/hr
Production rates	507 T/hr
Raw materials	soil & stone

C. Process Description. Raw material (soil & stone) is dropped into the vibrating grizzly by a loader or excavator and passed to the primary jaw crusher. The crusher reduces the size of the stone to pass through the adjustable closed stroke opening. The crushed material drops on to a moving conveyor belt and is transported to a stockpile. The entire process is powered by a 306 hp Komatsu nonroad engine which also provide power to the tracks that move the crusher. Process is a SICC 1429. There are no alternate operating scenarios.

1. Air Pollution Control/Compliance Monitoring. Air pollution control on the stone processing system will be accomplished by pre-wetting of material before loading on the grizzly feeder. In addition, water sprays will be used as necessary at the jaw and each transfer point to maintain adequate moisture content of the material being processed.

Compliance monitoring will be achieved by monthly visible emissions observations.

2. Insignificant Activities: N/A

D. Typical Operating Schedule: 8 hr/da, 5 da/wk, 52 wk/yr

E. Applicable Requirements:

1. Requirements:

a. 40 CFR 60, Subpart OOO
b. HAR, Chapt. 11-59, HAAQS
c. HAR, §11-60.1-2, prohibition of air pollution
d. HAR, §11-60.1-11, sampling, testing & reporting
e. HAR, §11-60.1-32(b), visible emissions
f. HAR, Chapter 11-60.1, Subchapter 5, covered sources
g. HAR, Chapter 11-60.1, Subchapter 6, fees
h. HAR, Chapter 11-60.1, Subchapter 10, field citations
i. CSP 0580-01-CT

2. Exemptions: N/A

F. Operational Limits. N/A

G. Ambient Air Quality Assessment for Existing Sources. N/A

H. Ambient Air Quality Assessment for New Sources.

I. PSD Applicability. N/A

J. Emissions Trading. N/A

K. Compliance Plan & Certification. Forms C-1 and C-2 are attached.

II. APPLICATION FEE

A check in the amount of $500 for a permit renewal for a non-major covered source is enclosed.

File No. 0580

FORM C-1

Peterson Bros. Construction

File No.: 0580

C-1: Compliance Plan

The Responsible Official shall submit a Compliance Plan as indicated in the Instructions for Applying for an Air Pollution Control Permit and at such other times as requested by the Director of Health (hereafter, Director).

Use separate sheets of paper if necessary.

1. Compliance status with respect to all Applicable Requirements:

   Will your facility be in compliance, or is your facility in compliance, with all applicable requirements in effect at the time of your permit application submittal?

   ☑ YES {If YES, complete items a and c below}

   ☐ NO {If NO, complete items a, b, and c below}

   a. Identify all applicable requirement(s) for which compliance is achieved.

HAR Chapt. 11-59, HAAQS	40 CFR 60, Subpart OOO
HAR 11-60.1-11, sampling, testing & reporting	HAR 11-60.1-31, applicability
HAR 11-60.1-32(b), visible emissions	HAR 11-60.1, Subchapt. 5, Covered Sources
HAR 11-60.1, Subchapt. 6, Fees	HAR 11-60.1, Subchapt. 10, Field Citations

   CSP 0580-01-CT

   Provide a statement that the source is in compliance and will continue to comply with all such requirements.
   To the best of my knowledge and belief, the 507 TPH mobile crushing plant will continue to be operated in a manner to maintain compliance with the aforementioned applicable requirements.

   b. Identify all applicable requirement(s) for which compliance is NOT achieved.

   N/A

   Provide a detailed Schedule of Compliance Schedule and a description of how the source will achieve compliance with all such applicable requirements.

Description of Remedial Action	Expected Date of Completion
N/A	

c. Identify any other applicable requirement(s) with a future compliance date that your source is subject to. These applicable requirements may take effect AFTER permit issuance:

Applicable Requirement	Effective Date	Currently in Compliance?
N/A		

If the source is not currently in compliance, provide a Schedule of Compliance and a description of how the source will achieve compliance with all such applicable requirements:

Description of Proposed Action/Steps to Achieve Compliance	Expected Date of Achieving Compliance
N/A	

Provide a statement that the source on a timely basis will meet all these applicable requirements:

N/A

If the expected date of achieving compliance will NOT meet the applicable requirement's effective date, provide a more detailed description of each remedial action and the expected date of completion:

Description of Remedial Action and Explanation	Expected Date of Completion
N/A	

2. Compliance Progress Reports:

a. If a compliance plan is being submitted to remedy a violation, complete the following information:

Frequency of Submittal: _____ (less than or equal to 6 months) Beginning Date: _____

b. Date(s) that the Action described in (1)(b) was achieved:

Remedial Action	Date Achieved
N/A	

c. Narrative description of why any date(s) in (1)(b) was not met, and any preventive or corrective measures taken in the interim:

N/A

RESPONSIBLE OFFICIAL (as defined in HAR §11-60.1-1)

Name (Last): **Nalani** (First): **Kay** (MI): _____

Title: **Vice President - Office Operations** Phone: **(808) 372-6913**

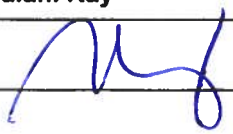
Mailing Address: **P.O. Box 700153**

City: **Kapolei** State: **HI** Zip Code: **96709**

Certification by Responsible Official (pursuant to HAR §11-60.1-4)

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. 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.

Name (Print/Type): **Nalani Kay**

(Signature):  Date: 1/27/23

Facility Name: **507 TPH Komatsu mobile jaw crusher**

Location: **Kunia, HI**

Permit Number: **CSP 0580-01-CT**

FOR AGENCY USE ONLY

File/Application No.: _____

Island: _____

Date Received: _____

File No. 0580

FORM C-2

Peterson Bros. Construction

File No.: 0580

C-2: Compliance Certification

The Responsible Official shall submit a Compliance Certification as indicated in the Instructions for Applying for an Air Pollution Control Permit and at such other times as requested by the Director of Health (hereafter, Director).

Complete as many copies of this form as needed. Use separate sheets of paper if necessary.

RESPONSIBLE OFFICIAL (as defined in HAR §11-60.1-1)

Name (Last): Nalani (First): Kay (MI): _____

Title: Vice President - Office Operations Phone: (808) 372-6913

Mailing Address: P.O. Box 700153

City: Kapolei State: HI Zip Code: 96709

Certification by Responsible Official (pursuant to HAR §11-60.1-4)

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. 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.

Name (Print/Type): Nalani Kay

(Signature): _____ Date: 1/27/23

Facility Name: 507 TPH Komatsu mobile jaw crusher

Location: Kunia, HI

Permit Number: CSP 0580-01-CT

FOR AGENCY USE ONLY

File/Application No.: _____

Island: _____

Date Received: _____

Complete the following information for **each** applicable requirement that applies to **each** emissions unit at the source. Also include any additional information as required by the Director. The compliance certification may reference information contained in a previous compliance certification submittal to the Director, provided such referenced information is certified as being current and still applicable.

1. Schedule for submission of Compliance Certifications during the term of the permit:

   Frequency of Submittal: Annually Beginning Date: 2023

2. Emissions Unit No./Description: 507 TPH Komatsu BR550JG-1 mobile crusher, S/N 1092,

3. Identify the applicable requirement(s) that is/are the basis of this certification:

   HAR, Chapt. 11-59, HAAQS
   40 CFR 60, Subpart OOO
   HAR §11-60.1-11, sampling, testing & reporting
   HAR §11-60.1-31, applicability
   HAR §11-60.1-32(b), visible emissions
   HAR Chapt. 11-60.1, Subchapter 5, Covered Sources
   HAR Chapt. 11-60.1, Subchapt. 6, Fees
   HAR Chapt. 11-60.1, Subchapt. 10, Field Citations
   CSP 0580-01-CT

4. Compliance status:

   a. Will the emissions unit be in compliance with the identified applicable requirement(s)?

      ☒ YES ☐ NO

   b. If YES, will compliance be continuous or intermittent?

      ☒ Continuous ☐ Intermittent

   c. If NO, explain.

5. Describe the methods to be used in determining compliance of the emissions unit with the applicable requirement(s), including any monitoring, recordkeeping, reporting requirements, and/or test methods:

   Monitoring, recordkeeping, reporting, and testing

Provide a detailed description of the methods used to determine compliance: (e.g., monitoring device type and location, test method description, or parameter being recorded, frequency of recordkeeping, etc.)

Monitoring:

a. Monthly visible emissions will be observed and recorded

Recordkeeping

b. Records of monthly production will be maintained.

c. Records of monthly V.E. observations will be maintained.

d. Records will be maintained on all inspections, maintenance, and repair work done on the permitted

e. Copies of all annual source performance test plans and test reports will be maintained.

Reporting

i. Annual Emissions Report Form will be submitted.

j. An annual compliance certification will be submitted.

Testing

k. An annual performance test will be conducted on the crusher in accordance with the requirements of 40 CFR 60, Subpart OOO.

6. Statement of Compliance with Enhanced Monitoring and Compliance Certification Requirements.

a. Will the emissions unit identified in this application be in compliance with applicable enhanced monitoring and compliance certification requirements?

N/A ☐ YES ☐ NO

b. If YES, identify the requirements and the provisions being take to achieve compliance:

_____

c. If NO, describe below which requirements will not be met:

_____

APPENDIX A

CALCULATIONS

FUGITIVE TSP EMISSIONS CALCULATIONS
507 TPH KOMATSU MOBILE CRUSHER

Fugitive Emission Point	Source	UnCon. EF (lb/T)	Contl'd EF (lb/T)	Annual Hours	Process Input/Output (T/hr)	Annual Throughput T/yr	Control Type	Controlled Emissions lb/hr[3]	Controlled Emissions T/yr[4]	Uncon. Emissions T/yr[4]
F1	Truck unload	n/d	n/d	8,760	507.0	4,441,320	n/a	0.00E+00	0.00E+00	0.00
F2	Grizzly to Jaw	3.00E-03	1.40E-04	8,760	507.0	4,441,320	water	7.10E-02	3.11E-01	6.66
F3	507 TPH Jaw Crusher	5.40E-03	1.20E-03	8,760	507.0	4,441,320	water	6.08E-01	2.66E+00	11.99
F4	Crusher to Conveyor	3.00E-03	1.40E-04	8,760	507.0	4,441,320	water	7.10E-02	3.11E-01	6.66
F5	Conveyor to Stockpile	3.00E-03	1.40E-04	8,760	507.0	4,441,320	water	7.10E-02	3.11E-01	6.66
						Total:		**0.82**	**3.60**	**31.98**

Notes: Reference: AP-42, Table 11.19.2-2 (8/04)

FUGITIVE PM10 EMISSIONS CALCULATIONS
507 TPH KOMATSU MOBILE CRUSHER

Fugitive Emission Point	Source	UnCon. EF (lb/T)	Contl'd EF (lb/T)	Annual Hours	Process Input/Output (T/hr)	Annual Throughput T/yr	Control Type	Controlled Emissions lb/hr[3]	Controlled Emissions T/yr[4]	Uncon. Emissions T/yr[4]
F1	Truck unload	1.60E-05	1.60E-05	8,760	507.0	4,441,320	n/a	8.11E-03	3.55E-02	3.55E-02
F2	Grizzly to Jaw	1.10E-03	4.60E-05	8,760	507.0	4,441,320	water	2.33E-02	1.02E-01	2.44
F3	507 TPH Jaw Crusher	2.40E-03	5.40E-04	8,760	507.0	4,441,320	water	2.74E-01	1.20E+00	5.33
F4	Crusher to Conveyor	1.10E-03	4.60E-05	8,760	507.0	4,441,320	water	2.33E-02	1.02E-01	2.44
F5	Conveyor to Stockpile	1.10E-03	4.60E-05	8,760	507.0	4,441,320	water	2.33E-02	1.02E-01	2.44
						Total:		**0.35**	**1.54**	**12.69**

Notes: Reference: AP-42, Table 11.19.2-2 (8/04)

FUGITIVE $PM_{2.5}$ EMISSIONS CALCULATIONS
507 TPH KOMATSU MOBILE CRUSHER

Fugitive Emission Point	Source	UnCon. EF (lb/T)	Contl'd EF (lb/T)	Annual Hours	Process Input/Output (T/hr)	Annual Throughput T/yr	Control Type	Controlled Emissions lb/hr[3]	Controlled Emissions T/yr[4]	Uncon. Emissions T/yr[4]
F1	Truck unload	n/d	n/d	8,760	507.0	4,441,320	n/a	0.00E+00	0.00	0.00
F2	Grizzly to Jaw	n/d	1.30E-05	8,760	507.0	4,441,320	water	6.59E-03	0.03	0.00
F3	507 TPH Jaw Crusher	n/d	1.00E-04	8,760	507.0	4,441,320	water	5.07E-02	0.22	0.00
F4	Crusher to Conveyor	n/d	1.30E-05	8,760	507.0	4,441,320	water	6.59E-03	0.03	0.00
F5	Conveyor to Stockpile	n/d	1.30E-05	8,760	507.0	4,441,320	water	6.59E-03	0.03	0.00
						Total:		**0.07**	**0.31**	**0.00**

Notes: Reference: AP-42, Table 11.19.2-2 (8/04)

FUGITIVE PARTICULATE MATTER
EMISSIONS CALCULATIONS
STOCKPILE

Storage Pile	Production (TPY)	TSP		PM_{10}		$PM_{2.5}$	
		EF (lb/T)[1]	TPY	EF (lb/T)[2]	TPY	EF (lb/T)[3]	TPY[3]
All	4,441,320	7.13E-03	15.83	3.37E-03	7.49	1.06E-03	2.35
TOTAL:			15.83		7.49		2.35

Notes:

1. Based on U=15 mph, M=2.525%, k=0.74 (AP-42, Sec 13.2.4, Nov 06)
2. Based on U=15 mph, M=2.525%, k=0.35 (AP-42, Sec 13.2.4, Nov 06)
3. Based on U=15 mph, M=2.525%, k=0.11 (AP-42, Sec 13.2.4, Nov 06)

File No. 0580

APPENDIX B

MANUFACTURER'S LITERATURE

KOMATSU®

BR550JG-1

FLYWHEEL HORSEPOWER
228 kW **306 HP** @ 1950 rpm

OPERATING WEIGHT
47500 kg **104,720 lb**

BR 550 JG

MOBILE CRUSHER

BR550JG-1 Mobile Crusher

WALK-AROUND

Komatsu's newly designed BR550JG-1 enters the market as the most technologically advanced machine available. With excellent crushing power and a production capacity of 100–460 ton/h ***110–507 U.S. ton/h***, the Komatsu BR550JG-1 is the optimum choice for your work site.

Rotating lamp flashes to indicate travel mode, excessive load on crusher or abnormal condition.

High performance jaw. The FS4430QA maximum-capacity jaw provides high performance with a simple design that facilitates easy maintenance. Komatsu's unique design allows the discharge setting to be changed with a simple one-touch adjustment in less time than the competition.

Newly designed vibratory grizzly feeder.
The vibratory grizzly feeder vibrates the material with an elliptical movement, so that the materials are effectively separated and fed evenly into the jaw.

Folding hopper wings for easy loading and transport.
The hopper is accessible from three sides for material loading. The rear side is especially low—just 3365 mm **11'0"** high.

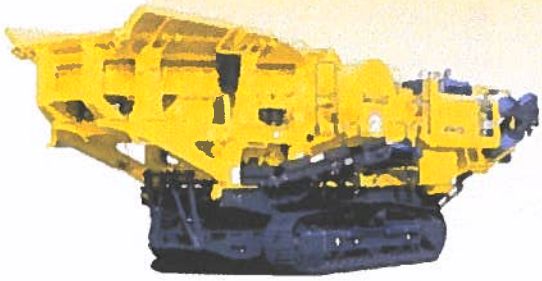
Outstanding mobility. Hydraulic steering and high travel speed make the crusher easy to relocate. The BR550JG-1 uses the same track undercarriage as Komatsu's hydraulic excavators.

BR550JG-1
MOBILE CRUSHER

FLYWHEEL HORSEPOWER
228 kW **306 HP** @ 1950 rpm

OPERATING WEIGHT
47500 kg **104,720 lb**

PRODUCTION CAPACITY
100–460 ton/h
110–507 U.S. ton/h



HydrauMind hydraulics and all-hydraulic drive system.
Fully hydraulic drive system gets you working right away. HydrauMind system supplies the optimal amount of oil through load-sensing and pressure-compensated valves.

High-speed, large-capacity conveyor belt.
A 1050 mm **42"** wide belt moves at 120 m **394'** per minute. The discharge height is 3000 mm **9'10".**

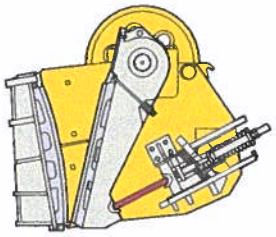
Komatsu's SAA6D125E-2 engine provides 228 kW **306 HP** @ 1950 rpm for maximum crushing power while keeping exhaust gas, noise, and vibration to a minimum.

Hydraulic conveyor lifter at the high position ensures adequate ground clearance when driving, and ample jaw discharge clearance when in the operation mode.

Sprinkler nozzle and a ***connector*** are standard.

Emergency shut-off buttons are installed on both the left and right sides of the chassis, control panel, and radio remote control (optional).

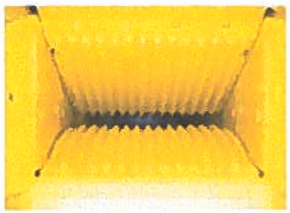
PRODUCTIVITY FEATURES



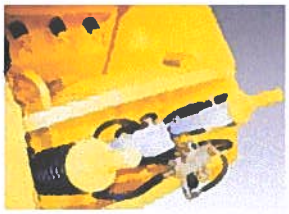
Designed with the operator in mind, the crusher offers the most up-to-date technological advancement to assist with your crushing needs.

Equipped with FS4430QA Jaw Crusher

The powerful FS4430QA jaw crusher with bow-type fixed jaw at high rpm allows you to adjust setting ranges from 55 mm to 200 mm **2.2"–7.9"** (OSS) for maximum crushing capabilities, including concrete debris and hard rock. Komatsu's one-touch discharge setting adjustment also allows greater control over your crushing capacity.



FS4430QA Jaw



GAP Adjust Cylinder

Adjustment Switch

- **Maximum crushing efficiency.** The Komatsu semi-automatic feeder system senses the load on the crusher and adjusts the feed rate accordingly to maximize efficiency for all types of rock and concrete debris.
- **Newly designed vibrating grizzly feeder.** By raising the feeder angle to an incline of 4° the muck is more effectively removed and the elliptical movement of the 2-stage grizzly feeder reduces clogging. Also, an optional muck conveyor is available to separate the materials.
- **High-speed, large-capacity conveyor belt.** A 1050 mm **42"** wide belt moves quickly to discharge crushed materials. Discharge height is 3 m **9'10"**, which facilitates stocking and screening the products.

Load-setting Control Dial

Cassette-type Grizzly Bar

Production Capacity

Maximum production capacity* (with a muck content of 30%).

Unit: ton/h **U.S. ton/h**

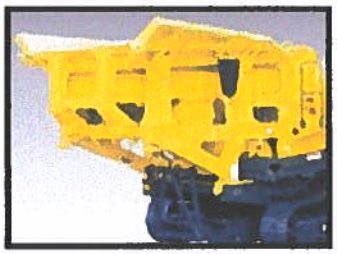
Material	Crusher Discharge Setting (open side)				
	55 mm **2.2"**	70 mm **2.8"**	100 mm **3.9"**	150 mm **5.9"**	200 mm **7.9"**
Natural stone	—	—	130–180 **143–198**	200–280 **220–309**	280–400 **309–441**
Concrete debris	100–140 **110–154**	110–160 **121–176**	150–220 **165–243**	230–330 **254–364**	320–460 **353–507**

*The production capacity of the natural stones shown in the table is based on andesite having unconfined compression strength of about 1000 kg/cm^2 **14,225 psi**, that of the concrete debris is based on concrete debris containing no steel bars and all the material is assumed to be dry and equal to or smaller than the optimum feed-in material size.

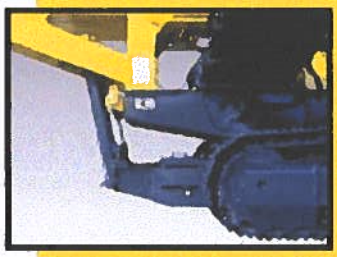
The production capacity is the sum of the quantity of the material crushed by the crusher and the quantity of the material that passed through the grizzly bar. It depends on the type and properties of the material and the working condition.

When the crusher discharge setting is 55–100 mm **2.2"–3.9"**, only concrete debris can be crushed.

- **High mobility.** The overall height for transportation is reduced below 3.4 m **11'2"** by employing hydraulic cylinders to fold the hopper. The BR550JG-1 has high ground clearance. The hydraulic conveyor lifting function ensures ample ground clearance when relocating the machine. The optional radio controller allows remote control travel functions.



Folding Hopper



Lifting Function of Conveyor

EASY MAINTENANCE AND SAFETY

Maximum Reliability and Minimal Maintenance. Komatsu equipment offers exceptional reliability and the leading edge in technological advancement. The new monitoring system improves maintenance, while standard features such as the pre-cleaner and double cleaner element are installed to improve dust resistance. A large clearance under the crusher means easier maintenance. Even if trouble occurs it can be repaired in a short time.

Comfortable Design. In addition to a low-noise engine made with sound-absorbing materials, Komatsu installs low-speed and high-torque hydraulic pumps, a muffler, and other standard parts to reduce noise and vibration. In addition, every crusher is equipped with a standard water sprinkler nozzle to suppress dust and improve the environment.

Easy Operation. The Mobile Crusher offers high-performance functions. The crusher setting can be completed in 3 minutes with the easy setting adjustment mechanism. The crusher, feeder, discharge conveyor belt, and optional equipment can all be operated at the touch of a button. With the optional remote control, operator control is maximized.

Safety

- Emergency shut-off buttons are located on the left and right sides of the chassis, on the control panel, and the remote control (optional).
- A rotating lamp flashes when there is a malfunction on the monitor display (for example, when overheating occurs) and the operator is also alerted by a buzzer in the event of an abnormal shut-down on the conveyor belt or optional equipment.
- A switch is provided to change between crushing and travel modes.
- Handrails and safety guards are provided for all sections.

Openings on Crusher Side

Low-Noise Engine

Water Sprinkler Nozzle

Upper Control Panel

Main Control Panel

SPECIFICATIONS

ENGINE

Model . . . . . Komatsu SAA6D125E-2
Type . . . . . 4-cycle, water-cooled, direct injection
Aspiration . . . . . Turbocharged and aftercooled (air to air)
Number of cylinders 6
Bore . . . . . 125 mm **4.92"**
Stroke . . . . . 150 mm **5.91"**
Piston displacement . . . . . 11.04 ltr **674 in³**
Flywheel horsepower . . . 228 kW **306 HP** @ 1950 rpm (SAE J1349)
Governor . . . . . All-speed, electrical

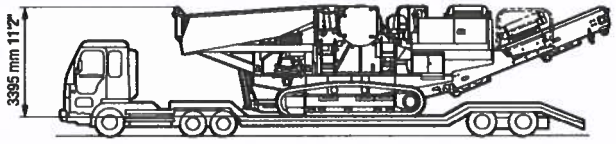
HYDRAULIC SYSTEM

Type . . . . . Variable capacity with pistons (inclined plate type)
Main pump:
Type . . . . . Variable-capacity pistons
Pumps for . . . . . Travel, crusher, conveyor, and options
Maximum flow . . . . . 2 x 310 ltr/min **2 x 82 U.S. gpm**
Maximum pressure . . . . . 380 kg/cm² **5,405.5 psi**
Maximum travel speed . . . . . 3 km/h **1.9 mph**

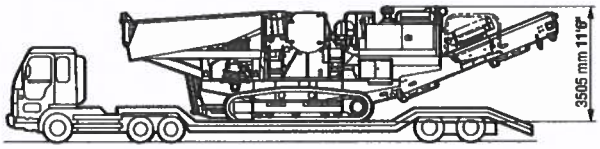
Hydraulic system (travel, crusher, feeder, conveyor, and option):

Travel	220 ltr/min	**58 U.S. gpm**
Crusher	325 ltr/min	**86 U.S. gpm**
Feeder	110 ltr/min	**29 U.S. gpm**
Main conveyor	90 ltr/min	**24 U.S. gpm**
Muck conveyor	47 ltr/min	**12 U.S. gpm**
Magnetic separator	36 ltr/min	**10 U.S. gpm**

TRANSPORTATION



Condition after rotary lamp assembly, muffler, pre-cleaner, and mirror assembly are removed.



Condition after only rotary lamp and muffler are removed.*

(In some districts, the machine may need to be disassembled for transportation.)

Transport length	13430 mm	**44'1"**
Transport height	3395 mm	**11'2"**
Transport height*	3505 mm	**11'6"**
Transport width	2995 mm	**9'10"**

*Condition after only rotary lamp and muffler are removed.

OPERATING WEIGHT

Operating weight, including 500 mm shoes . . . . 47500 kg **104,720 lb**
Production capacity . . . . . 100–460 ton/h **110–507 U.S. ton/h**

CRUSHER

Jaw . . . . . Komatsu FS4430QA
Inlet size . . . . . 1120 mm x 765 mm **44" x 30"**
Discharge setting (O.S.S.) . . . . . 55 mm to 200 mm **2.2" to 7.9"**
Rotating speed (variable) . . . . . 210–300 rpm

GRIZZLY FEEDER

Frequency . . . . . Maximum 1000 cpm
Size . . . . . 1125 mm x 4105 mm **44" x 13'6"**
Drive type . . . . . Hydraulic gear motor

UNDERCARRIAGE

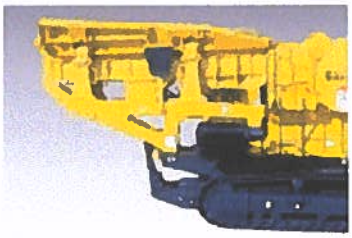
Seal of track . . . . . Sealed track
Track adjuster . . . . . Hydraulic
Number of shoes . . . . . 45 each side
Number of carrier rollers . . . . . 2 sets/one side
Number of track rollers . . . . . 5 sets/one side

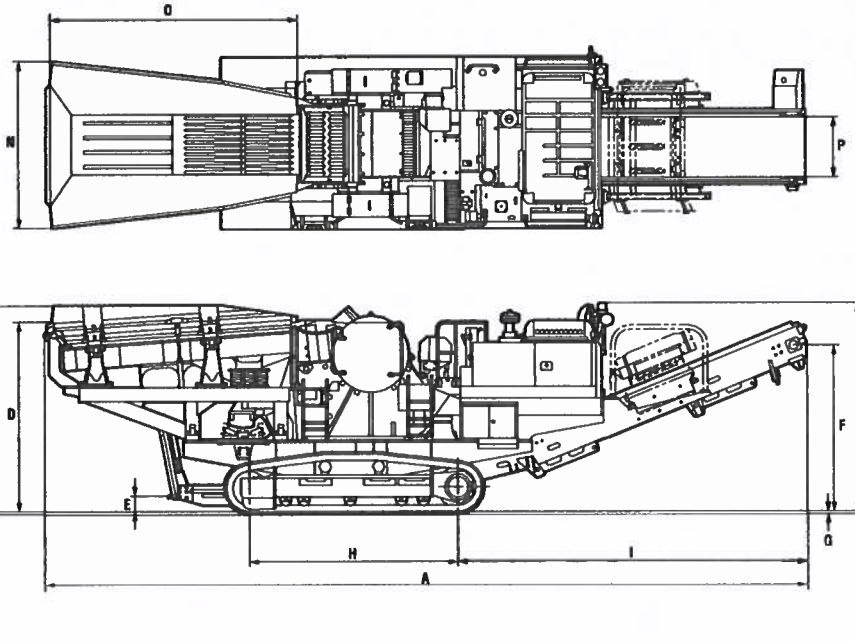
COOLANT AND LUBRICANT CAPACITY

Fuel tank	605 ltr	**160 U.S. gal**
Radiator	43.9 ltr	**12 U.S. gal**
Engine	38 ltr	**10 U.S. gal**
Final drive, each side	9 ltr	**2.4 U.S. gal**
Hydraulic system	370 ltr	**98 U.S. gal**

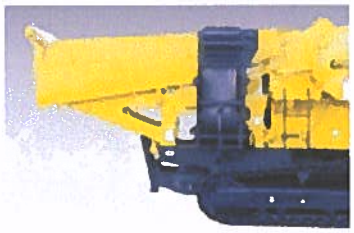
DIMENSIONS

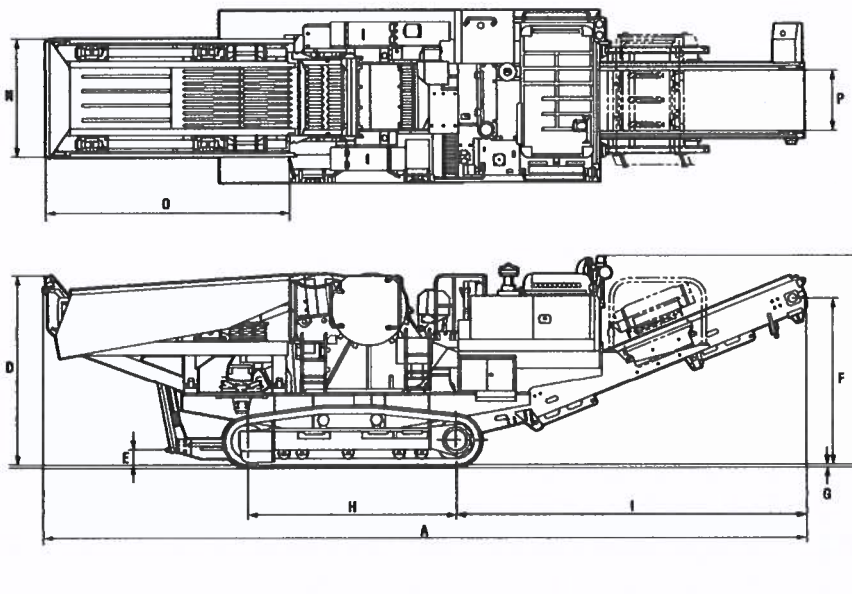
When Operated





When Hopper Is Folded





A	Overall length	13430 mm	44'1"
B	Overall height	3640 mm	11'11"
C	Feed height—side	3640 mm	11'11"
D	Feed height—rear	3365 mm	11'0"
E	Minimum ground clearance (during travel)	350 mm	1'2"
F	Discharge height	3000 mm	9'10"
G	Track thickness	30 mm	1"
H	Length of track on ground	3700 mm	12'2"
I	Discharge from idler center	6145 mm	20'2"

J	Overall width	3115 mm	10'3"
K	Track gauge	2480 mm	8'2"
L	Track width	2980 mm	9'9"
M	Shoe width	500 mm	19.7"
N	Hopper width Hopper width when folded	2805 mm 2130 mm	9'2" 7'0"
O	Hopper length	4365 mm	14'4"
P	Discharge conveyor belt width	1050 mm	42"

STANDARD EQUIPMENT

ENGINE:

- Engine, Komatsu SAA6D125E-2
- 4-cycle, water-cooled, direct injection, turbocharged, and aftercooled (air to air)
- Net horsepower 228 kW **306 HP** @ 1950 rpm
- Fuel system:
  –Fuel, light oil, ASTM specification
  –Governor, centrifugal method, all-speed method
- Cooling fan, suction type
- Air cleaner, centrifugal method with paper filter

ELECTRICAL SYSTEM:

- Starting motor, 11 kW **24 V**
- Alternator, 50 ampere **24 V**
- Battery, 140 Ah **2 x 12 V**

UNDERCARRIAGE:

- Number of rollers:
  –Upper carrier, two sets/one side
  –Lower track, five sets/one side

SHOES:

- Assembled triple-grouser type, 500 mm **19.7"**
- Tension adjustment, grease cylinder method (cushion springs attached)

CRUSHER:

- Type, FS4430QA single-toggle crusher
- Size, 1120 mm x 765 mm **44" x 30"**
- Rotation, 210–300 rpm
- Drive method, hydraulic motor with V-belt

FEEDER:

- Type, 2-step deck
- Speed-controlled grizzly feeder
- Dimensions (W x L), 1125 mm x 4105 mm **44" x 13'6"**
- Grizzly bar opening, 45–70 mm **1.77"–2.76"**
- Drive method, hydraulic gear motor

BELT CONVEYOR:

- Width x length, 1050 mm x 10135 mm **42" x 33'3"**
- Speed, 120 m/min **394 ft/min**
- Drive method, hydraulic piston motor

OPTIONAL EQUIPMENT

MAGNETIC SEPARATOR:

- Magnetic separator for primary conveyor, 900 mm **35"** wide

MUCK CONVEYOR:

- Muck conveyor assembly can be folded by hydraulic cylinder, 4000 mm x 600 mm **13'1" x 2'**

RADIO REMOTE CONTROLLER:

Magnetic Separator

Muck Conveyor

Remote Controller

Function:

- Travel Left/Right/ Forward/Reverse
- Crusher On/Off
- Feeder On/Off
- One-Touch Deceleration On/Off
- Emergency Shutoff
- Horn

AESS570-00

SN5(3M)C DataKom 5/01 (EV-1)

KOMATSU®
Komatsu America International Company
440 N. Fairway Dr., Vernon Hills, IL 60061

Peterson Bros. Construction, Inc. (TCSP) Permit No. 0580-01-CT

Information Requests and Items Requiring Verification:
Please verify the following and provide any missing information:

1) **Please confirm the following and note any changes:**

a) **Initial Equipment Location:** 94-1211 Kunia Road, Waipahu, Oahu
UTM: 4Q; 598,852.00 m E, 2,370,290.00 m N (NAD-83)

b) **Current Equipment Location:** Specify address or state "at initial location"

2) **Please confirm the following Insignificant Activities/Exemptions and provide engine serial number:** Confirmed

The following diesel engine is exempt in accordance with HAR, §11-60.1-82(d)(4) because it is used to propel the crusher.

One (1) 306 HP Komatsu Diesel Engine, Model SAA6D125E-2, S/N 211385

3) **Please have the applicant complete and sign the nonroad certification form.** Done and coming via USPS.

4) **Please confirm the following and provide equipment data plate/tag photos.** Plate photo attached.

Equipment Description	Make and Model No.	Serial No.
One (1) 507 TPH Jaw Crusher (Mfg. 2006) with One (1) 306 HP Diesel Engine and attached conveyors and water sprays	Komatsu, BR550-JG1 Komatsu, Model SAA6D125E-2 (Exempt)	1092 211385

5) **Please confirm and provide information for emissions from unpaved roads:**

Vehicle Load Capacity: 21 tons
Travel Distance Roundtrip: ____0____ miles

6) **Please confirm the following air pollution control measures and revise as applicable.**

There are no changes to existing air pollution control equipment and monitoring devices listed in the previous permit review. Water suppression will be used at unpaved roads and stockpiles to control fugitive dust.

The crushing plant is equipped with a water spray to control fugitive dust. Water spray will be applied to the feed material before loading onto the grizzly feeder. In addition, water sprays will be used as necessary at the jaw and at each transfer point to maintain adequate moisture content in the material being processed. Confirmed as stated in the application

Remanufactured Products

ENGINE MODEL NO. SAA6D125E-2

PART NO. R6156B00011T2

REF. SERIAL NO. 211385

REMANUFACTURER I.D. A502316

CRANKSHAFT INFO. M: STD R: STD

TIMING B.T.D.C..

SU AMERICA CORP., RIPLEY, TN 38063 U.S.A.

DR-2844