

PROPOSED

Date

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(xxx)

08-E CAB
File No. 0569-02

Mr. Hugh H. Willocks
Vice President, Construction
Willocks Construction Corporation
16-209 Melekahiwa Place
Keaau, Hawaii 96749

Dear Mr. Willocks:

**Subject: Temporary Covered Source Permit (CSP) No. 0569-01-CT
Modification Application No. 0569-02
Willocks Construction Corporation
Mobile Crushing Plant
Located at: Various Temporary Sites, State of Hawaii
Present Location: University of Hawaii, Hilo Campus
200 W Kawili Street, Hilo, Hawaii
Date of Expiration: December 12, 2009**

The subject temporary covered source permit is issued in accordance with Hawaii Administrative Rules (HAR), Title 11, Chapter 60.1. The issuance of this amended permit is based on the plans, specifications, and information that you submitted as part of your application received on June 13, July 9, and December 12, 2007. This permit supersedes in its entirety CSP No. 0569-01-CT, issued on December 13, 2004.

The temporary covered source permit 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

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The forms for submission are as follows:

Compliance Certification	
Annual Emissions Report Form:	Crushing Operations
Annual Emissions Report Form:	Fuel Consumption 310 hp Diesel Engine
Annual Emissions/Monitoring Report Form:	Fuel Certification & Consumption
Monitoring Report Forms:	Fuel Certification 310 hp Diesel Engine
	Diesel Engines and Diesel Engine
	Generator Hours of Operation
	Powerscreen Front-End Loader
	Exceedances
Monitoring Report Form:	Visible Emissions
Change of Location Request for a Temporary Source	

The following are for use in monitoring visible emissions:

Visible Emissions Observation Requirements
Visible Emissions Form
The Ringelmann Chart

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

Sincerely,

THOMAS E. ARIZUMI, P.E., CHIEF
Environmental Management Division

GN:nn
Enclosures

c: Ed Yamamoto, EHS – Hilo
Wendell Sano, EHS - Kona
CAB Monitoring Section

**ATTACHMENT I: STANDARD CONDITIONS
TEMPORARY COVERED SOURCE PERMIT NO. 0569-01-CT**

Issuance Date:

Expiration Date: December 12, 2009

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

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

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

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

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

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

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

(Auth.: HAR §11-60.1-2, §11-60.1-4, §11-60.1-82, §11-60.1-84, §11-60.1-90)
7. This permit (a) does not release the permittee from compliance with other applicable statutes of the State of Hawaii, or with applicable local laws, regulations, or ordinances,

and (b) shall not constitute, nor be construed to be an approval of the design of the covered source.

(Auth.: HAR §11-60.1-5, §11-60.1-82)

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

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

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

(Auth.: HAR §11-60.1-90)

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

(Auth.: HAR §11-60.1-90)

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

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

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

(Auth.: HAR §11-60.1-90)

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

(Auth.: HAR §11-60.1-90)

14. The permittee shall notify the Department of Health and U.S. EPA Region 9 in writing of the following dates:

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

(Auth.: HAR §11-60.1-14, §11-60.1-90)

16. The permittee shall notify the Department of Health in writing, of the **intent to shut down air pollution control equipment for necessary scheduled maintenance** at least twenty-four (24) hours prior to the planned shutdown. The submittal of this notice shall not be a defense to an enforcement action. The notice shall include the following:
 - 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. **Except for emergencies which result in noncompliance with any technology-based emission limitation in accordance with HAR, Section 11-60.1-16.5, in the event any emission unit, air pollution control equipment, or related equipment malfunctions or breaks down in such a manner as to cause the emission of air pollutants in violation of HAR, Chapter 11-60.1 or this permit**, the permittee shall immediately notify the Department of Health of the malfunction or breakdown, unless the protection of personnel or public health or safety demands immediate attention to the malfunction or breakdown and makes such notification infeasible. In the latter case, the notice shall be provided as

soon as practicable. Within five (5) working days of this initial notification, the permittee shall also submit, in writing, the following information:

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

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

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

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

(Auth.: HAR §11-60.1-14, §11-60.1-90)

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

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

(Auth.: HAR §11-60.1-9, §11-60.1-90)

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

(Auth.: HAR §11-60.1-9, §11-60.1-90)

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

(Auth.: HAR §11-60.1-90)

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

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

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

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

(Auth.: HAR §11-60.1-11, §11-60.1-90)

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

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

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

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

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

(Auth.: HAR §11-60.1-93)

27. The compliance plan and compliance certification submittal requirements shall be in accordance with HAR, Sections 11-60.1-85 and 11-60.1-86. As specified in HAR,

Section 11-60.1-86, the compliance certification shall be submitted to the Department of Health and the U.S. EPA Region 9 once per year, or more frequently as set by any applicable requirement.

(Auth.: HAR §11-60.1-90)

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

**Clean Air Branch
Environmental Management Division
Hawaii Department of Health
P.O. Box 3378
Honolulu, HI 96801-3378**

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

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

(Auth.: HAR §11-60.1-4, §11-60.1-90)

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

(Auth.: HAR §11-60.1-5, §11-60.1-90)

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

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condition complies with the specified provision(s) of the SIP.

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**ATTACHMENT II: SPECIAL CONDITIONS
TEMPORARY COVERED SOURCE PERMIT NO. 0569-01-CT**

Issuance Date: June 20, 2008

Expiration Date: December 12, 2009

In addition to the Standard Conditions of the Covered Source Permit, the following emissions unit(s) is subject to the Special Conditions listed below:

Section A Equipment Description

1. This Mobile Crushing Plant encompasses the following equipment and associated appurtenances:
 - a. One (1) 340 tph Extec mobile crusher, model no. C12, serial no. 6908, with one (1) 310 hp Caterpillar diesel engine, model no. 330 6BD ITA, serial no. 64Z 317 51, water spray system, and various conveyors;
 - b. One (1) 380 tph Kue Ken primary jaw crusher, model no. 4236 (42" x 36"), serial no. 120 M50 17, with stepped vibrating grizzly feeder approximately 42" x 16";
 - c. One (1) 210 tph Telsmith cone crusher, model no. 48 S TEL, serial no. 202 M72 74, with an El-Jay two-deck screen, model no. 34D 0689, identification no. FSG 514 324;
 - d. One (1) 275 hp Caterpillar diesel engine, model no. 330 6T, serial no. 7JB 054 89;
 - e. One (1) 360 kW Detroit Diesel diesel engine generator, model no. 8083-7400, serial no. 8VF 112 536;
 - f. One (1) 179 tph Powerscreen Powergrid, 10 ft x 14 ft, model Mk II, serial no. 720 4123, with:
 - i. One (1) discharge belt conveyor;
 - ii. One (1) discharge hopper;
 - iii. A rubber shroud; and
 - g. Various conveyors and water spray systems.
2. An identification tag or name plate shall be displayed on the equipment listed above to show manufacturer, model no., and serial no. The identification tag or name plate shall be permanently attached to the equipment in a conspicuous location.

Section B. Applicable Federal Regulations

1. The Extec mobile crusher, the Kue Ken jaw crusher, and the Powerscreen, excluding the Telsmith cone crusher, the diesel engines and the diesel engine generator, are subject to the provisions of the following federal regulations:

- a. 40 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, §60.8, §60.670)¹

Section C. Operational and Emission Limitations

1. Diesel Engines and Diesel Engine Generator
 - a. Power for the 340 tph mobile Extec crusher shall be provided by the 310 hp diesel engine.
 - b. Diesel Engines and Diesel Engine Generator Stack Height Requirement
 - i. The minimum stack height for the 310 hp diesel engine shall be 13 feet above ground. Certification of the final stack height shall be provided to the Department of Health in accordance with Special Condition E.2. of this attachment.
 - ii. The minimum height for the 275 hp diesel engine shall be 6 meters (19 feet – 8 inches) above ground. Certification of the final stack height shall be provided to the Department of Health in accordance with Special Condition E.2. of this attachment.
 - iii. The minimum stack height for the 360 kW diesel engine generator shall be 6 meters (19 feet – 8 inches) above ground. Certification of the final stack height shall be provided to the Department of Health in accordance with Special Condition E.2 of this attachment.
 - c. The diesel engines and diesel engine generator shall only be fired on fuel oil no. 2 with a maximum sulfur content not to exceed 0.5% by weight.
 - d. For any six (6) minute averaging period, the diesel engines and diesel engine generator shall not exhibit visible emissions of twenty (20) percent or greater, except as follows: during startup, shutdown, or equipment breakdown, the diesel engines and diesel engine generator may exhibit visible emissions greater than twenty (20) but not

exceeding sixty (60) percent opacity for a period aggregating not more than six (6) minutes in any sixty (60) minutes.

- e. The total operating hours of the 275 hp diesel engine and the 360 kW diesel engine generator shall individually not exceed 2,500 hours per any rolling twelve (12) month period.
- f. The total daily operating hours of the 275 hp diesel engine and the 360 kW diesel engine generator shall not individually exceed 22 hours per day.
- g. The diesel engines and diesel engine generator shall be maintained in good operating condition to promote good combustion and minimize emissions.

(Auth.: HAR §11-60.1-3, §11-60.1-32, §11-60.1-38, §11-60.1-90; SIP §11-60-24)²

2. Fugitive Emission Limits

- a. The permittee shall not cause to be discharged into the atmosphere from any crusher, and the Powerscreen, fugitive emissions which exhibit greater than fifteen (15) percent opacity.
- b. The permittee shall not cause to be discharged into the atmosphere from any transfer point on belt conveyors or from any other affected facility, any fugitive emissions which exhibit greater than ten (10) percent opacity.
- c. The permittee shall take reasonable precautions to prevent fugitive dust from becoming airborne and shall not cause or permit the discharge of visible emissions of fugitive dust beyond the lot line of the property boundary on which the emissions originate.

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

3. Fugitive Dust Controls

- a. The permittee shall take measures to control and minimize fugitive dust, for example, wet suppression, enclosures, dust screens, at the crushers, the powerscreen, material transfer points, stockpiles, plant roads, and throughout the temporary work yard. The Department of Health may at any time require the permittee to further abate fugitive dust emissions, require additional water sprays, or require manual water spraying at pertinent locations if an inspection indicates poor or insufficient control. The following measures shall be used by the permittee to control fugitive dust:

A water spray system, including spray bars or nozzles, shall be installed, maintained, and used as necessary during operation of the Mobile Crushing Plant to minimize fugitive dust. The water spray nozzles shall be located at the loading points of the

crushers, screen and drop discharge end of the conveyors, including the following locations:

- i. The transfer location into the crushers;
 - ii. Conveyor transfer to the cone crusher;
 - iii. Conveyor transfer below each crusher;
 - iv. Conveyor transfer to the screen;
 - v. Conveyor transfer from the screen;
 - vi. Other material transfer points; and
 - vii. Conveyor transfer to each stockpile.
- b. A water truck shall be maintained and used on the grounds as necessary to minimize fugitive dust from roads, vehicle travel, storage piles, material transfer, for example, loading and unloading operations, screening operations, and other applicable site locations.
- c. A water spray shall be operated and maintained at the initial loader of the stone processing and at the loader for the screen.
- d. The permittee shall not operate the Mobile Crushing Plant, if observation or routine inspection required in Special Condition D.5. of this attachment indicates a significant change in water pressure and/or flow rate, plugged nozzle(s), leak in the piping system, or other problem which affects the efficiency of the water spray system controlling plant emissions. The permittee shall investigate and correct the problem before resuming plant operation. The normal operating flow rate (gallons per minute) of the water spray system shall be established in the performance test conducted pursuant to Section F of this attachment. After review of the test results, the Department of Health may set a requirement for the minimum operating water flow rate.

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

4. Plant Maintenance

The Mobile Crushing Plant, which includes the Extec mobile crusher, the Kue Ken primary jaw crusher, the Telsmith cone crusher, the Powerscreen Powergrid, the diesel engines, diesel engine generator, conveyors and water spray system, shall be maintained in good operating condition with scheduled inspection and maintenance as recommended by the manufacturer, or as needed.

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

5. Alternate Operating Scenario

Terms and conditions for the reasonably anticipated operating scenario identified by the source in the temporary covered source permit application and approved by the Department of Health are as follows:

- a. The permittee may replace any diesel engine and the diesel engine generator with a temporary replacement unit if any repair reasonably warrants the removal of the diesel engine or the diesel engine generator from its site, that is, equipment failure, engine overhaul, or any major equipment problems requiring maintenance for efficient operation, and the following provisions are adhered to:
 - i. Written notification identifying the reasons for the replacement is submitted to the Department of Health prior to the exchange;
 - ii. The temporary replacement unit has equal or lesser emissions;
 - iii. The temporary replacement unit complies with all applicable conditions including all air pollution control equipment requirements, operating restrictions, and emission limits;
 - iv. The original diesel engine or diesel engine generator shall be repaired and returned to service at the same location in a timely manner;
 - v. Prior to the removal and return of the diesel engine, or diesel engine generator, the permittee shall submit to the Department of Health written documentation on the removal and return dates and on the make, size, model and serial numbers for both the temporary replacement unit and the installed unit;
 - vi. The permittee shall also submit any additional information as requested by the Department of Health, which may include an ambient air quality impact assessment verifying that Federal/State Ambient Air Quality Standards are met.
- b. The permittee shall contemporaneously with making a change from one operating scenario to another, record in a log at the permitted facility the scenario under which it is operating and, if required by any applicable requirement or the Department of Health, submit written notification to the Department of Health; and
- c. The terms and conditions under each operating scenario shall meet all applicable requirements, including special conditions of this permit.

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

6. The 179 tph Powerscreen

- a. The total operating hours of the portable screen shall not exceed 3,120 hours in any rolling twelve (12) month period.
- b. The permittee shall operate the front-end loaders at the site in accordance with the following conditions:
 - i. The maximum heaped bucket capacity of the front-end loader used to load the powerscreen shall not exceed 5.25 cubic yards (cy);
 - ii. The permittee shall operate only one (1) front-end loader for loading of the powerscreen to limit screening operations to 179 tph. At no time shall more than one (1) front-end loader be utilized for loading the powerscreen; and
 - iii. The powerscreen shall be limited to 105 cubic yard per hour;
- c. The permittee shall not operate the mobile powerscreen in a configuration that would result in an increase in the number of emission points, such as the addition of more transfer or stacking conveyors.
- d. The permittee shall adequately dampen the material prior and subsequent to screening operations to minimize fugitive dust.
- e. A discharge hopper and rubber shroud mounted under the screen shall be installed, operated, and maintained to direct screened material onto the discharge conveyor and contain fugitive dust when the screened material is transferred to the conveyor. The discharged hopper and rubber shroud shall be utilized at all times during operation of the portable screen.
- f. The permittee shall not operate the portable powerscreen unless the non-resetting hour meter on the diesel engine is recording its hours of operation.

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

7. Location Change

The operation of the equipment covered by this temporary covered source permit shall involve at least one location change during the term of this permit. A location change shall be done in accordance with Section G of this attachment. For each location change, the

Department of Health reserves the right to impose additional operational controls and restrictions if a site evaluation or ambient air quality impact assessment 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, or copies thereof, including support information, shall be maintained for at least five (5) years from the date of the monitoring sample, measurement, test, report, or applications. Support information includes all maintenance, inspection, and repair records, and copies of all reports required by this permit. These records shall be true, accurate, and be in a permanent form suitable for inspection and made available to the Department of Health or its representative(s) upon request.

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

2. Crushed Stone Processed

The permittee shall maintain records on the total tons of crushed stone, gravel, cinder, and soil, processed by the Mobile Crushing Plant, for purposes of annual emissions reporting.

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

3. Diesel Engines and Diesel Engine Generator Fuel

- a. Fuel purchase receipts showing the fuel type, delivery date, sulfur content, percent by weight, and amount of fuel in gallons, of fuel delivered to the facility and the amount of fuel consumed by the diesel engines and the diesel engine generator shall be retained.
- b. Fuel consumption records, in gallons, shall be maintained and used in determining the diesel engines' and diesel engine generator's emissions for the purpose of annual emissions reporting.
- c. The receipts or supplier's fuel specification sheet may be used to demonstrate compliance with Special Condition C.1.c of this attachment, the fuel sulfur content.

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

4. Diesel Engines and Diesel Engine Generator Hours of Operation

- a. A non-resetting hour meter shall be installed, operated, and maintained on the mobile 310 hp Caterpillar diesel engine, the 275 hp Caterpillar diesel engine, the 360 kW Detroit Diesel diesel engine generator, and the (exempted) mobile 58 hp Duetz diesel

engine, to represent the permanent and continuous recording of the total hours operated by the Mobile Crushing Plant, that is, the 340 tph mobile Extec crusher, the 380 tph Kue Ken primary jaw crusher, the 210 Telsmith cone crusher, and the 179 tph Powerscreen.

- b. The permittee shall maintain the amount of hours the Mobile Crushing Plant on a monthly and rolling twelve (12) month periods. Monthly records shall include:
 - i. The horsepower (hp) or kilowatt (kW), manufacturer's name, model number, and serial number of the diesel engine or diesel engine generator;
 - i. The mobile crusher, the jaw crusher, the cone crusher, and the screen, that the diesel engines and diesel engine generator are providing power to.
 - iii. The date of meter reading;
 - ii. Beginning readings for each month;
 - iii. Total operating hours for each month;
 - iv. Total operating hours based on a twelve (12) month rolling basis; and
 - v. Recorder's name and title.

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

5. Water Spray System

- a. A non-resetting water flow meter shall be installed, operated, and maintained for the Mobile Crushing Plant to determine the cumulative gallons of water used to control fugitive dust and the gallon per minute flow rate for the water spray system.
- b. The water spray system, including the water pump, piping system, spray bars, spray nozzles, and water flow meter shall be checked daily to ensure proper operation of the water spray system.

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

6. Inspection, Maintenance, and Repair Log

An inspection, maintenance, and repair log shall be maintained for the equipment covered under this permit. Inspection, replacement of parts and repairs to the Mobile Crushing Plant, which includes the crushers, screen, diesel engines, diesel engine generator and water sprays, shall be documented. At a minimum, the following records shall be maintained:

- a. Date that the inspection or repair work was performed;
- b. Name and title of personnel performing the inspection or work;
- c. Description of the equipment or parts inspected, any findings of the inspection and any work performed on the equipment.
- d. Part(s) inspected or repaired.

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

7. The 179 hp Portable Powerscreen

The permittee shall record the dates and duration where more than one front-end loader is used to load the portable screen, or where the heaped bucket capacity of the front-end loader used to load the screen is greater than 5.25 cubic-yards (cy). The permittee shall include the description of the incidence, for example, the number of loaders, the size of the bucket(s) the type and amount (tons) of material processed during the incident, and why it occurred.

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

8. Performance Test

An initial source performance test and all annual source performance tests thereafter shall be conducted on the Mobile Crushing Plant pursuant to Section F of this attachment. Test plans and results shall be maintained in accordance with the requirements of Section F.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90; 40CFR §60.8)

9. Visible Emissions (V.E.)

a. Diesel Engines and Diesel Engine Generator

- i. Except in those months where V.E. observations are conducted by a certified reader for the annual V.E. observations of the diesel engines and diesel engine generator, the permittee shall conduct **monthly** (*calendar month*) V.E. observations of the diesel engines and diesel engine generator, in accordance with Method 9 or using a Ringelmann Chart as provided. For each month, two (2) consecutive sets of observations shall be taken at each emission point. Each set shall last six minutes in duration and consist of twenty-four (24) readings taken at fifteen (15) second intervals. Records shall be completed and maintained in accordance with the enclosed "Visible Emissions Observation Requirements." For

the V.E. requirements of the engines, the observer shall comply with the following additional requirements:

- (1) The distance between the observer and the emission source shall be at least three (3) stack heights but not more than 402 meters (0.25 miles); and
 - (2) The observer shall, when possible, select a position that minimizes interference from other fugitive or point source emissions. The required observer position relative to the sun, Method 9, Section 2, shall be followed.
- ii. The permittee shall conduct **annual** (*calendar year*) V.E. observations for the diesel engines and diesel engine generator by a certified reader in accordance with 40 CFR Part 60, Appendix A, Method 9. For the annual observations, two (2) consecutive six (6) minute observations shall be taken at fifteen (15) second intervals. Records shall be completed and maintained in accordance with the enclosed "Visible Emissions Observation Requirements."
- iii. Upon written request and justification by the permittee, the Department of Health may waive the requirement for an **annual** V.E. observation of the diesel engines and diesel engine generator. The waiver request shall be submitted prior to the required annual V.E. observation and must include documentation justifying such action. Documentation should include, but is not limited to, the results of the prior V.E. observations indicating compliance by a wide margin, documentation of continuing compliance, and an indication that operations of the source have not changed since the previous annual V.E. observation.

b. Fugitive Emissions

- i. Except in those months where a performance test is conducted for fugitive emissions pursuant to Section F of this attachment, the permittee shall conduct **monthly** (*calendar month*) V.E. observations for the Mobile Crushing Plant in accordance with Method 9 or using a Ringelmann Chart as provided.

For each month, two (2) consecutive six (6) minute observations shall be taken at fifteen (15) second intervals for each emission point subject to opacity limits. In other words, each set shall last six minutes in duration and consist of twenty-four (24) readings at fifteen (15) second intervals. Records shall be completed and maintained in accordance with the enclosed "Visible Emissions Observation Requirements." For visible emissions observations of fugitive emissions, the observer shall comply with the following additional requirements:

- (1) The minimum distance between the observer and the emission source shall be 4.57 meters, about 15 feet, but no more than 402 meters about 0.25 miles;

- (2) 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
- (3) The observer shall record the operating capacity (tons/hr) of the crushers and the powerscreen at the time the observations are made.
- (4). The Department of Health 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 selection of points shall include the primary crushers or those points as specified by the Department of Health. Allowance to observe a portion of the total required fugitive emission points shall be obtained in writing from the Department of Health.

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

Section E. Notification and Reporting Requirement

1. Standard Condition Reporting

Notification and reporting pertaining to the following events shall be done in accordance with Attachment I, Standard Conditions Nos. 14, 16, 17 and 25, respectively:

- a. Anticipated date of initial start-up, actual date of construction commencement, and actual date of start-up of *the newly acquired equipment* to the Mobile Crushing Plant;
- b. Intent to shut down air pollution control equipment for necessary scheduled maintenance;
- c. Emissions of air pollutants in violation of HAR, Chapter 11-60.1 or this permit (excluding technology-based emission exceedances due to emergencies); and
- d. Permanent discontinuance of construction, modification, relocation, or operation of the facility covered by this permit.

(Auth.: HAR §11-60.1-8, §11-60.1-15, §11-60.1-16, §11-60.1-90; SIP §11-60-10, §11-60-16)²

2. Certification of Stack Height

- a. Within **fifteen (15) days** after initial start-up of the 310 hp Caterpillar diesel engine, which powers the 340 tph Extec mobile crusher, the Department of Health shall be notified in writing of the final 310 hp Caterpillar diesel engine stack height.

- b. Within **fifteen (15) days** after initial start-up of the 275 hp Caterpillar diesel engine, the Department of Health shall be notified in writing of the final 275 hp Caterpillar diesel engine stack height; and
- c. Within **fifteen (15) days** after initial start-up of the 360 kW Detroit Diesel diesel engine generator, the Department of Health shall be notified in writing of the final 360 kW Detroit Diesel diesel engine generator stack height.

(Auth.: HAR §11-60.1-3, §11-60.1-90)

3. Reporting Deviations

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

- a. At least **thirty (30) days prior** to *conducting a source performance test* pursuant to Section F of this attachment, the permittee shall submit a written performance test plan to the Department of Health in accordance with Special Condition F.6. of this attachment, which includes position and locations of the V.E. reading.
- b. Written reports of the results of the source performance test shall be submitted to the Department of Health **within sixty (60) days** *after the completion of the performance test*, and shall be in conformance with Special Condition F.7. of this attachment.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161; 40 CFR §60.8, 40 CFR § 60.676, SIP §11-60-15)^{1,2}

5. Monitoring Reports

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

- a. Any opacity exceedances determined during the required V.E. monitoring of the Mobile Crushing Plant, each diesel engine, and the diesel engine generator. Each exceedance reported shall include the date of the exceedance, six (6) minute average opacity reading, possible reasons for the exceedance, duration of exceedance, and corrective actions taken. If there were no exceedances, the permittee shall submit in writing, a statement indicating that there were no exceedances for that semi-annual period;
- b. The total operating hours of the 275 hp Caterpillar diesel engine on a daily, monthly, and twelve (12) month rolling basis;
- c. The total operating hours of the 360 kW Detroit Diesel diesel engine on a daily, monthly, and twelve (12) month rolling basis;
- d. The total operating hours of the 58 hp Duetz diesel engine on a daily, monthly, and twelve (12) month rolling basis;
- e. Each time the equipment of the Mobile Crushing Plant operational limitations as specified in Special Condition Nos. C.1.f. and C.6.b. are exceeded. The report shall include the following:
 - i. The dates(s) of commencement and completion of operations during which the limitation is exceeded;
 - ii. The total operating hours during which the exceedance occurred;
 - iii. The type and total tons of material processed during the exceedances.
 - a. The equipment that was in operation during the exceedance;
 - b. The reason why the limitation was exceeded; and
 - c. The report shall so state if no exceedances of Special Condition Nos. C.1.f. and C.6.b. have occurred.

The enclosed **Monitoring Report Forms:**

- i. **Operating Hours of the 275 hp Caterpillar Diesel Engine;**
- ii. **Operating Hours of the 360 kW Detroit Diesel Diesel Engine Generator;**
- iii. **Operating Hours of the 58 hp Mobile Duetz Diesel Engine; and Visible Emissions;**
- iv. **Powerscreen Front-End Loader Exceedances; and**
- v. **Visible Emissions;**

shall be used, signed, and dated by the responsible official.

(Auth.: HAR §11-60.1-3, §11-60.1-90)

6. Annual Emissions Reporting

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

The enclosed **Annual Emissions Report Form: Crushing Operations and Fuel Consumption for 310 hp Diesel Engine** and **Annual Emissions/Monitoring Report Form: Fuel Certification & Diesel Engines and Diesel Engine Generator Fuel Consumption** shall be used, signed, and dated by the responsible official.

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

(Auth.: HAR §11-60.1-3, §11-60.1-90)

7. Compliance Certification

During the permit term, the permittee shall submit at least **annually** to the Department of Health and EPA Region 9, **Form C-2: Compliance Certification** pursuant to HAR, Subsection 11-60.1-86. The permittee shall indicate whether or not compliance is being met with each term or condition of this permit. The compliance certification shall include the following information:

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

- f. Any additional information as required by the Department of Health including information to determine compliance with applicable requirements.

*The compliance certification shall be submitted **within ninety (90) days after** the end of each calendar year, and shall be signed and dated by a responsible official or authorized representative.*

Upon written request of the permittee, the deadline for submitting the compliance certification may be extended if the Department of Health determines that reasonable justification exists for the extension.

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

8. Alternate Operating Scenario

For the temporarily replacement of the 310 hp diesel engine, 275 hp diesel engine, the 360 kW diesel engine generator, and the exempt mobile 58 hp Duetz diesel engine, the permittee shall submit:

- a. Written notification prior to temporary replacement of the diesel engine(s) or the diesel engine generator, identifying the reason(s) for replacement, the anticipated date of replacement, replacement diesel engine(s)' or diesel engine generator's specifications, including model number and serial no., estimated emissions (tons per year, pound per hour, and grams per second) for the temporary diesel engine(s) or diesel engine generator, replacement, and an ambient air quality impact assessment, if requested, for the temporary diesel engine(s) or the diesel engine generator.
- b. Written notification, **within fifteen (15) days** after removing the replacement diesel engine(s) or the diesel engine generator, and returning the original diesel engine(s) or diesel engine generator, to service, identifying dates for the start and end of operation for the replacement diesel engine(s) or diesel engine generator, and the start of operation of the original diesel engine(s) or diesel engine generator.

(Auth.: HAR §11-60.1-3, §11-60.1-90)

Section F. Testing Requirements

1. Performance Testing

- a. **Within sixty (60) days after** achieving the maximum production rate at which the Mobile Crushing Plant will be operated, but **not later than one-hundred eighty (180) days after** the initial start-up of such facility and annually thereafter, the permittee shall conduct or cause to be conducted performance tests on the plant. Tests shall be

conducted for plant equipment subject to the opacity limits specified in Attachment II, Special Conditions C.2.a and C.2.b.

- b. The Department of Health may require testing at other points in the facility if an inspection indicates poor or insufficient controls.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90; 40 CFR §60.675)¹

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 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 emissions source shall be 4.57 meters (15 feet) but not greater than 402 meters (0.25 miles);
 - 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 crushers and the mobile screen at the time observations were made.
- b. When determining compliance with the fugitive emissions standard specified in Attachment II, Special Condition C.2.a for each crusher, and the screen, the duration of Method 9 may be reduced from three (3) hours (thirty 6-minute averages) to one (1) hour (ten 6-minute averages) only if the following conditions apply:
 - i. There are no individual readings greater than fifteen (15) percent opacity; and
 - ii. There are no more than three (3) readings of fifteen (15) percent for the 1-hour period.
- c. When determining compliance with the fugitive emissions standard specified in Special Condition C.2.b of this attachment for any transfer point on the belt conveyor(s) or for any other affected facility, the duration of Method 9 may be reduced from three (3) hours (thirty 6-minute averages) to one (1) hour (ten 6-minute averages) only if the following conditions apply:
 - i. There are no individual readings greater than ten (10) percent opacity; and
 - ii. There are no more than three (3) readings of ten (10) percent for the 1-hour period.

- d. When determining compliance with the fugitive emissions standards of Attachment II, Special Conditions C.2.a and C.2.b, if emissions from two 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.
 - ii. Separate the emissions so that the opacity of emissions from each affected facility can be read.
- 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 of Health 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, §11-60.1-161; 40 CFR §60.675)¹

4. Testing Expense and Monitoring

Performance tests shall be made at the expense of the permittee and shall be conducted at the maximum expected production rate at which the plant will be operated. All tests may be monitored by the Department of Health.

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

5. 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 of Health before the tests.

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

6. Performance Test Plan

At least **thirty (30) days prior** to conducting a source performance test, the permittee shall submit a written performance test plan to the Department of Health and U.S. EPA Region 9, that includes date(s) of the test, test duration, test locations, test methods, source operation, and other parameters that may affect 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 meet EPA guidelines may be grounds to invalidate any test and require a retest.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90; 40 CFR §60.8, SIP §11-60-15)^{1,2}

7. Performance Test Report

Within sixty (60) days after completion of each performance test, the permittee shall submit to the Department of Health and U.S. EPA region 9, the test report which shall include the operating conditions of the facility, for example, water flow rate in gallons per minute for wet suppression, primary crusher closed side setting, the summarized test results, 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. The performance test report shall include the primary crusher operating rate (tons/hr) at the closed side setting, locations of where the visible emissions were read, visible emission readings, location of water sprays, and normal operating gallon per minute flow rate of the water spray system during the test. The normal operating water flow rate of the water spray system shall be determined by the water flow rate used during the source performance test that demonstrates compliance with the opacity limits.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, §11-60.1-161, 40 CFR §60.675, SIP §11-60-15)^{1,2}

8. Performance Test Waiver

Upon written request and justification, the Department of Health may waive the requirement for, or a portion of, a specific annual source 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 test(s) indicating compliance by a wide margin, documentation of continuing compliance, and further that operations of the source have not changed since the previous performance test.

(Auth.: HAR §11-60.1-3, §11-60.1-90)

Section G. Change of Location Requirements

1. The permittee shall complete and submit information regarding all location changes to the Department of Health for approval at least thirty **(30) days**, or such lesser time as designated and approved by the Department of Health, prior to the change in location. The information submitted shall include the following:
 - a. Name, address, and phone number of the facility and the plant site manager or other contact;
 - b. Temporary covered source permit number and expiration date;

- c. Identification of current location;
- d. Location map of the proposed new temporary location containing the following information:
 - i. Identification of the property boundary and any fence lines;
 - ii. Location of all structures within 100 meters of the equipment. Provide the building dimensions (height, length, and width) of all structures that have heights greater than 40% of the stack height of the equipment; and
 - iii. Identification of any other air pollution sources at the new location.
- e. List of the equipment to be used at the site and description of the plant configuration;
- f. Area map showing the equipment and the new proposed location;
- g. Projected dates of operation at the new location;
- h. Identification of any other air pollution sources at the new location;
- i. Certification that no modification will be made to the equipment and operational methods will remain similar as permitted under this temporary covered source permit at the new location; and
- j. Any additional information as requested by the Department of Health, including an ambient air quality impact assessment of the facility at the new location.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90, §11-60.1-91)

- 2. The applicable filing fee of \$100.00 shall be submitted to the Department of Health with each change in location request and made payable to **Clean Air Special Fund-COV**.

(Auth.: HAR §11-60.1-3, §11-60.1-91)

- 3. 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 HRS, Chapter 91.

(Auth.: HAR §11-60.1-3, §11-60.1-91)

- 4. At each of the authorized locations, the permittee shall operate in accordance with this temporary covered source permit and all applicable requirements.

(Auth.: HAR §11-60.1-3, §11-60.1-91)

5. All the information required in this section shall be submitted to the Department of Health using the attached form, "*Change of Location Request for a Temporary Source*," along with the area maps showing the equipment and the new proposed location.

(Auth.: HAR §11-60.1-3, §11-60.1-91)

Section H. Agency Notification

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

(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
TEMPORARY COVERED SOURCE PERMIT NO. 0569-01-CT
INSIGNIFICANT ACTIVITIES**

Issuance Date:

Expiration Date: December 12, 2009

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

Section A. Equipment Description

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

(Auth.: HAR §11-60.1-3)

Section B. Operational Limitations

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

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

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

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

Section C. Monitoring and Recordkeeping Requirements

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

(Auth.: HAR §11-60.1-3, §11-60.1-90)

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

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

Section D. Notification and Reporting

Compliance Certification

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

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

The compliance certification shall be submitted **within ninety (90) days** after the end of each calendar year, and shall be signed and dated by a responsible official.

Upon written request of the permittee, the deadline for submitting the compliance certification may be extended, if the Department of Health determines that reasonable justification exists for the extension.

In lieu of addressing each emission unit as specified in *Compliance Certification Form*, the permittee may address insignificant activities as a single unit provided compliance is met with all applicable requirements. If compliance is not totally attained, the permittee shall identify the specific insignificant activity and provide the details associated with the noncompliance.

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

CSP No. 0569-01-CT
Attachment II - INSIG
Page 3 of 3
Issuance Date:
Expiration Date: December 12, 2009

PROPOSED

Section E. Agency Notification

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

(Auth.: HAR §11-60.1-4, §11-60.1-90)

**ATTACHMENT III: ANNUAL FEE REQUIREMENTS
TEMPORARY COVERED SOURCE PERMIT NO. 0569-01-CT**

Issuance Date:

Expiration Date: December 12, 2009

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

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

**Clean Air Branch
Environmental Management Division
Hawaii Department of Health
P. O. Box 3378
Honolulu, HI 96801-3378**

PROPOSED

ATTACHMENT IV: ANNUAL EMISSIONS REPORTING REQUIREMENTS TEMPORARY COVERED SOURCE PERMIT NO. 0569-01-CT

Issuance Date:

Expiration Date: December 12, 2009

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

1. Complete the attached form(s):

[Annual Emissions Report Form: Crushing Operations](#)
[Annual Emissions Report Form: Fuel Consumption for 310 hp Diesel Engine](#)
[Monitoring/Annual Emissions Report Form: Fuel Certification and Consumption - Diesel Engine](#)

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

**Clean Air Branch
Environmental Management Division
Hawaii Department of Health
P. O. Box 3378
Honolulu, HI 96801-3378**

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

**COMPLIANCE CERTIFICATION FORM
TEMPORARY COVERED SOURCE PERMIT NO. 0569-01-CT
PAGE 1 OF ____**

Issuance Date: _____

Expiration Date: December 12, 2009

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

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

For Period: _____ Date: _____

Company/Facility Name: _____

Responsible Official (Print): _____

Title: _____

Responsible Official (Signature): _____

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

PROPOSED

**COMPLIANCE CERTIFICATION FORM
 TEMPORARY COVERED SOURCE PERMIT NO. 0569-01-CT
 (CONTINUED, PAGE 2 OF ___)**

Issuance Date:

Expiration Date: December 12, 2009

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.

iv. **A. Attachment I, Standard Conditions**

<u>Permit term/condition</u>	<u>Equipment(s)</u>	<u>Compliance</u>
All standard conditions	All Equipment(s) listed in the permit	Continuous Intermittent

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

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

PROPOSED

**COMPLIANCE CERTIFICATION FORM
TEMPORARY COVERED SOURCE PERMIT NO. 0569-01-CT
(CONTINUED, PAGE ____ OF ____)**

Issuance Date:

Expiration Date: December 12, 2009

C. Special Conditions - Operational and Emissions Limitations

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

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

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

(Make Additional Copies if Needed)

**COMPLIANCE CERTIFICATION FORM
 TEMPORARY COVERED SOURCE PERMIT NO. 0569-01-CT
 (CONTINUED, PAGE ___ OF ___)**

Issuance Date:

Expiration Date: December 12, 2009

D. Deviations

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

(Make Additional Copies if Needed)

PROPOSED

**ANNUAL EMISSIONS REPORT FORM
CRUSHING OPERATIONS
TEMPORARY COVERED SOURCE PERMIT NO. 0569-01-CT**

Issuance Date: _____

Expiration Date: December 12, 2009

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.

(Make additional copies for use.)

For Period: _____ Date: _____

Company Name: Willocks Construction Corporation

Facility Name: Mobile Crushing Plant

Equipment Location: _____

Equipment Description: _____

Serial/ID No.: _____

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

Responsible Official (Print): _____

Title: _____

Responsible Official (Signature): _____

Total tons of stone processed during the year: _____

Pollution Controls and Efficiencies			
Operation	Tons Per Year	Air Pollution Control Measures	Control Efficiency (Percent Reduction)
340 tph Extec and 380 tph Kue Ken Total Combined Jaw Crushing			
210 hp Telsmith Cone Crushing			
179 tph Powerscreen			
Truck Loading & Unloading			
Conveyor Transfer Points			
Stock Piles			

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

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.

PROPOSED

**ANNUAL EMISSIONS REPORT FORM
FUEL CONSUMPTION FOR 310 HP Diesel Engine
TEMPORARY COVERED SOURCE PERMIT NO. 0569-01-NT**

Issuance Date:

Expiration Date: December 12, 2009

In accordance with the HAR, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health the following information.

(Make additional copies for use.)

For Period: _____ Date: _____

Company Name: Willocks Construction Corporation

Equipment Location: _____

Equipment Description & Capacity: **310 hp mobile Caterpillar Diesel Engine**

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: _____

Signature: _____

Fuel Consumption

Report the total fuel usage (gallons) for the calendar year. _____ gallons.

PROPOSED

**ANNUAL EMISSIONS/MONITORING REPORT FORM
275 HP DE FUEL CERTIFICATION & CONSUMPTION
TEMPORARY COVERED SOURCE PERMIT NO. 0569-01-NT
PAGE 1 of 2**

Issuance Date: _____ **Expiration Date:** December 12, 2009

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

(Make additional copies for use.)

For Period: _____ Date: _____

Company Name: Willocks Construction Corporation

Equipment Location: _____

Equipment Description & Capacity: 275 hp Caterpillar Diesel Engine

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: _____

Signature: _____

Fuel Certification		
Types of Fuel Fired during the Reporting Period	Supplier	Maximum Sulfur Content (% by Weight)
Fuel Oil No. 2		
If not already on file at the Department of Health, provide the supplier's fuel specification sheet for the type of fuel indicated in the above table. The fuel specification sheet shall indicate the percent sulfur content by weight.		

Fuel Usage			
Month	Gallons Used	Month	Gallons Used
Jan.		Jul.	
Feb.		Aug.	
Mar.		Sep.	
Apr.		Oct.	
May		Nov.	
Jun.		Dec.	
Annual Total			

PROPOSED

**ANNUAL EMISSIONS/MONITORING REPORT FORM
360 kW DEG FUEL CERTIFICATION & CONSUMPTION
TEMPORARY COVERED SOURCE PERMIT NO. 0569-01-NT
PAGE 2 of 2**

Issuance Date: _____

Expiration Date: December 12, 2009

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

(Make additional copies for use.)

For Period: _____ Date: _____

Company Name: Willocks Construction Corporation

Equipment Location: _____

Equipment Description & Capacity: **360 kW Detroit Diesel Diesel Engine Generator**

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: _____

Signature: _____

Fuel Certification		
Types of Fuel Fired during the Reporting Period	Supplier	Maximum Sulfur Content (% by Weight)
Fuel Oil No. 2		
If not already on file at the Department of Health, provide the supplier's fuel specification sheet for the type of fuel indicated in the above table. The fuel specification sheet shall indicate the percent sulfur content by weight.		

Fuel Usage			
Month	Gallons Used	Month	Gallons Used
Jan.		Jul.	
Feb.		Aug.	
Mar.		Sep.	
Apr.		Oct.	
May		Nov.	
Jun.		Dec.	
Annual Total			

**MONITORING REPORT FORM
FUEL CERTIFICATION FOR 310 HP Diesel Engine
TEMPORARY COVERED SOURCE PERMIT NO. 0569-01-NT**

Issuance Date:

Expiration Date: December 12, 2009

In accordance with the HAR, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health the following information.

(Make additional copies for use.)

For Period: _____ Date: _____

Company Name: Willocks Construction Corporation

Equipment Location: _____

Equipment Description & Capacity: **310 hp mobile Caterpillar Diesel Engine**

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: _____

Signature: _____

Fuel Certification

Report the maximum sulfur content percent by weight for fuel oil no. 2 during the reporting period. _____ percent sulfur

PROPOSED

**MONITORING REPORT FORM
POWERSCREEN FRONT-END LOADER EXCEEDANCES
TEMPORARY COVERED SOURCE PERMIT NO. 0569-01-NT**

Issuance Date: _____

Expiration Date: December 12, 2009

In accordance with the HAR, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health the following information.

(Make additional copies for use.)

For Period: _____ Date: _____

Company Name: Willocks Construction Corporation

Equipment Location: _____

Equipment Description & Capacity: **Front-End Loader for the Poewerscreen**

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: _____

Signature: _____

Equipment utilization

In accordance with Special Condition C.6.b., the permittee shall operate the front-end loaders at the site with the following conditions:

- i. The maximum heaped bucket capacity of the front-end loader used to load the portable screen shall not exceed 5.25 cubic-yards (cy);
- ii. The permittee shall operate only one (1) front-end loader for limiting the screening operations to 179 tph. At no time shall more than one (1) front-end loader be utilized for loading the Powerscreen.

Indicate in the table below, each time Special Condition C.6.b. was exceeded. If there were no exceedances state "none".

FRONT-END LOADER EXCEEDANCES					
Dates of Exceedences		Total Hours Operated During Exceedances	Type and Total Tons of Material Processed During Exceedances	Specify the Number of Front-End Loaders and Max Bucket Capacity Exceedances	Reason For Exceeding the Limitation
From	To				

**CHANGE OF LOCATION REQUEST FOR A TEMPORARY SOURCE
TEMPORARY COVERED SOURCE PERMIT NO. 0569-01-CT
(PAGE 1 OF 3)**

Issuance Date:

Expiration Date: December 12, 2009

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. The permittee shall complete this change of location request form regarding all succeeding location changes and shall submit this form to the Department of Health for approval at least thirty (30) days, or such lesser time as designated and approved by the Department of Health, prior to the change in location.
2. The permittee shall submit a location map of the new temporary site containing the following information:
 - a. Identification of the property boundary and any fence lines;
 - b. Location of all structures within 100 meters of the equipment. Provide the building dimensions (height, length, and width) of all structures that have heights greater than 40% of the stack height of the equipment; and
 - c. Identification of any other air pollution sources at the new location.
3. The permittee shall submit a **\$100 filing fee** with each change of location request for a non-toxic, covered source. The fee shall be made payable to the **Clean Air Special Fund- COV**.
4. The permittee shall submit any additional information as requested by the Department of Health.
5. This notification form shall be mailed to the following address:

**CLEAN AIR BRANCH
ENVIRONMENTAL MANAGEMENT DIVISION
HAWAII DEPARTMENT OF HEALTH
P.O. Box 3378
Honolulu, HI 96801-3378**

(808) 586-4200

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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 HRS, Chapter 91.
 2. At each new authorized location, the permittee shall operate in accordance with the current temporary covered source permit and all applicable requirements.

**CHANGE OF LOCATION REQUEST FOR A TEMPORARY SOURCE
 TEMPORARY COVERED SOURCE PERMIT NO. 0569-01-CT
 (PAGE 2 OF 3)**

Issuance Date:

Expiration Date: December 12, 2009

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 additional use.)

1. Company Name: _____
2. Facility Name (if different from the Company): _____
3. Mailing Address: _____
 City: _____ State: _____ Zip Code: _____
 Phone Number: _____
4. Name of Owner/Owner's Agent: _____
 Title: _____ Phone: _____
5. Equipment Description:
 Indicate the equipment proposed for usage at the new site, by circling the equipment description and circling the permit equipment number, and filling in the number of conveyors and water spray bars, as specified in Attachment II, Special Condition No. A.1.

Equipment Description	Permit Equipment number	Equipment Description	Permit Equipment Number
340 tph Exec mobile crusher with the 310 hp Caterpillar diesel engine	1.a.	275 hp Caterpillar diesel engine	1.d.
380 tph Kue Ken primary jaw crusher	1.b.	360 kW Detroit Diesel diesel engine generator	1.e.
210 tph Telsmith cone crusher	1.c.	_____ number of conveyers	1.g.
179 tph mobile Powerscreen Powergrid with the 58 hp Duetz diesel engine	1.f.	_____ number of water spray bars	1.g.

6. Current Equipment Location:

7. ***New Equipment Location:*** _____

a. Plant site manager or other contact, if different than Current contact:

b. Phone Number: _____

c. Proposed start date at *New Location*:

d. Estimated project duration: _____

**CHANGE OF LOCATION REQUEST FOR A TEMPORARY SOURCE
TEMPORARY COVERED SOURCE PERMIT NO. 0569-01-CT
(PAGE 3 OF 3)**

Issuance Date:

Expiration Date: December 12, 2009

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 additional use.)

8. Brief description of the work to be performed. Also identify other air pollution sources owned and operated by the permittee at the new location, if any:

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. 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: _____

Signature: _____

**VISIBLE EMISSIONS FORM REQUIREMENTS
STATE OF HAWAII
TEMPORARY COVERED SOURCE PERMIT NO. 0569-01-CT**

Issuance Date:

Expiration Date: December 12, 2009

The **Visible Emissions (V.E.) Form** shall be completed **monthly** (*each calendar month*) for each equipment subject to opacity limits in accordance with 40 CFR Part 60, Appendix A, Method 9 or use of a Ringelmann Chart as provided. At least **annually** (*calendar year*), V.E. observation shall be conducted for each equipment subject to opacity limits by a certified reader in accordance with Method 9. The V.E. Form shall be completed as follows:

1. Visible emissions observations shall take place during the day only and shall be compared to the Ringelmann Chart provided. The opacity shall be noted in five (5) percent increments (e.g., 25%).
2. Orient the sun within a 140 degree sector to your back. Provide a source layout sketch on the V.E. Form using the symbols as shown.
3. For V.E. observations of stacks, stand at least three (3) stack heights but not more than a quarter mile from the stack.
4. For V.E. observations of fugitive emissions from crushing and screening plants, stand at least 4.57 meters (15 feet) from the visible emissions source, but not more than a quarter mile from the visible emission 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 V.E. Forms for recordkeeping. These records shall be in a permanent form suitable for inspection, retained for a minimum of five 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 V.E. monitoring requirements for the month the performance test is performed.

**VISIBLE EMISSIONS FORM
TEMPORARY COVERED SOURCE PERMIT NO. 0569-01-CT**

Issuance Date: _____

Expiration Date: December 12, 2009

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

Company Name: _____

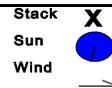
For stacks, describe equipment and fuel: _____

For fugitive emissions from crushers and screens, describe:

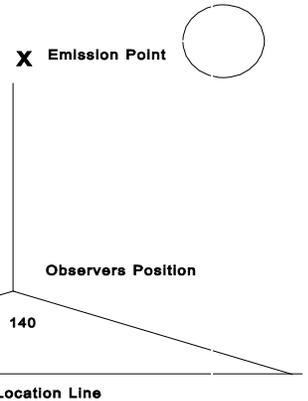
Fugitive emission point: _____

Plant Production (tons/hr): _____

(During observation)



Draw North Arrow



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: _____

Method of observation (Ringelmann Chart or Method 9): _____

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

Observation Date and Start Time: _____

Method of observation (Ringelmann Chart or Method 9): _____

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