



South Coast Air Quality Management District



21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

October 8, 2013

Mr. Gerardo C. Rios
Chief, Permit Office
U. S EPA, Region IX
75 Hawthorne Street, Air 3
San Francisco, CA 94105

Dear Mr. Rios:

Reference: Transmittal of Proposed Initial Title V Permit

Enclosed are the proposed initial Title V permit, permit summary, statement of basis, permit application, permit evaluations, and public notice for Tervita LLC (ID 172593), located at 12459-B Arrow Route, Rancho Cucamonga, CA 91739. With your receipt of the proposed initial Title V permit, we will note that EPA's 45-day review period will begin on October 8, 2013.

If you have any questions or comments concerning the proposed initial Title V permit, please contact Mr. Richard Hawrylew, Air Quality Engineer, at (909) 396-2657, or you may contact him by email at rhawrylew@aqmd.gov.

Sincerely,

Mohan Balagopalan
Senior Manager
Chemical, Mechanical, and Ports Permitting

MB:rh

Enclosures:

- Proposed Initial Title V Permit
- Permit Summary
- Statement of Basis
- Permit Evaluations
- Public Notice

FACILITY PERMIT TO OPERATE

**TERVITA LLC
12459-B ARROW ROUTE
RANCHO CUCAMONGA, CA 91739**

NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR A COPY THEREOF MUST BE KEPT AT THE LOCATION FOR WHICH IT IS ISSUED.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT SHALL NOT BE CONSTRUED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF ANY OTHER FEDERAL, STATE OR LOCAL GOVERNMENTAL AGENCIES.

Barry R. Wallerstein, D. Env.
EXECUTIVE OFFICER

By _____
Mohsen Nazemi, P.E.
Deputy Executive Officer
Engineering & Compliance

FACILITY PERMIT TO OPERATE TERVITA LLC

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FACILITY PERMIT TO OPERATE TERVITA LLC

SECTION A: FACILITY INFORMATION

LEGAL OWNER &/OR OPERATOR: TERVITA LLC

LEGAL OPERATOR (if different than owner):

EQUIPMENT LOCATION: 12459-B ARROW ROUTE
RANCHO CUCAMONGA, CA 91739

MAILING ADDRESS: 12459 -B ARROW ROUTE
RANCHO CUCAMONGA, CA 91739

RESPONSIBLE OFFICIAL: CAMERON MCLEAN

TITLE: PRESIDENT, ENVIRONMENTAL SERVICES

TELEPHONE NUMBER: (604) 214-7071

CONTACT PERSON: FRANK DARR

TITLE: PROJECT SUPERINTENDANT

TELEPHONE NUMBER: (951) 287-8854

TITLE V	RECLAIM
NO	NOx: NO SOx: NO CYCLE: 0 ZONE: INLAND

**FACILITY PERMIT TO OPERATE
TERVITA LLC**

SECTION B: RECLAIM ANNUAL EMISSION ALLOCATION

NOT APPLICABLE

**FACILITY PERMIT TO OPERATE
TERVITA LLC**

SECTION C: FACILITY PLOT PLAN

(TO BE DEVELOPED)

**FACILITY PERMIT TO OPERATE
TERVITA LLC**

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

NONE

**FACILITY PERMIT TO OPERATE
TERVITA LLC**

**Facility Equipment and Requirements
(Section D)**

This section consists of a table listing all permitted equipment at the facility, facility wide requirements, all individual Permits to Construct and Permits to Operate issued to various equipment at the facility, and Rule 219-exempt equipment subject to source-specific requirements. Each permit and Rule 219-exempt equipment will list operating conditions including periodic monitoring requirements, and applicable emission limits and requirements that the equipment is subject to. Also included is the rule origin and authority of each emission limit and permit condition.

**FACILITY PERMIT TO OPERATE
TERVITA LLC**

PERMITTED EQUIPMENT LIST

THE FOLLOWING IS A LIST OF ALL PERMITS TO CONSTRUCT AND PERMITS TO OPERATE AT THIS FACILITY:

Application number	Permit to Operate number	Equipment description
542855		SLAG/AGGREGATE PROCESSING SYSTEM
542856		DUST COLLECTOR
552382		SLAG/AGGREGATE LOADING SYSTEM

NOTE: EQUIPMENT LISTED ABOVE THAT HAS NO CORRESPONDING PERMITS TO OPERATE NUMBER ARE ISSUED PERMITS TO CONSTRUCT. THE ISSUANCE OR DENIAL OF THEIR PERMITS TO OPERATE IS SUBJECT TO ENGINEERING FINAL REVIEW. ANY OTHER APPLICATIONS THAT ARE STILL BEING PROCESSED AND HAVE NOT BEEN ISSUED PERMITS TO CONSTRUCT OR PERMITS TO OPERATE WILL NOT BE FOUND IN THIS TITLE V PERMIT.

FACILITY PERMIT TO OPERATE TERVITA LLC

FACILITY WIDE CONDITION(S)

Condition(s):

1. EXCEPT FOR OPEN ABRASIVE BLASTING OPERATIONS, THE OPERATOR SHALL NOT DISCHARGE INTO THE ATMOSPHERE FROM ANY SINGLE SOURCE OF EMISSIONS WHATSOEVER ANY AIR CONTAMINANT FOR A PERIOD OR PERIODS AGGREGATING MORE THAN THREE MINUTES IN ANY ONE HOUR WHICH IS:
 - A. AS DARK OR DARKER IN SHADE AS THAT DESIGNATED NO. 1 ON THE RINGLEMANN CHART, AS PUBLISHED BY THE UNITED STATES BUREAU OF MINES; OR
 - B. OF SUCH OPACITY AS TO OBSCURE AN OBSERVER'S VIEW TO A DEGREE EQUAL TO OR GREATER THAN DOES SMOKE DESCRIBED IN SUBPARAGRAPH (A) OF THIS CONDITION.
[RULE 401]
2. THE OPERATOR SHALL NOT USE FUEL OIL CONTAINING SULFUR COMPOUNDS IN EXCESS OF 15 PPM BY WEIGHT.
[RULE 431.2]
3. THE TOTAL AMOUNT OF DIESEL FUEL, CONSUMED BY ENDLOADERS USED TO LOAD MATERIAL INTO THE EQUIPMENT AT THIS FACILITY, SHALL NOT EXCEED 1,883 GALLONS IN ANY ONE MONTH.
[RULE 1303(b)(2)]
4. SOIL₂O OR EQUIVALENT DUST SUPPRESSANT SHALL BE APPLIED ON ALL STOCKPILES OF SLAG ON A WEEKLY BASIS.
[RULE 1420]
5. COHEREX OR EQUIVALENT DUST SUPPRESSANT SHALL BE APPLIED ON UNPAVED ROADWAYS AT LEAST ONCE A MONTH.
[RULE 1420]
6. ON A DAILY AND ON-GOING BASIS, THE SLAG CONTAINING MATERIALS SHALL BE WETTED DOWN BEFORE BEING MOVED BY THE RECEIVING END-LOADER TO BE TRANSPORTED TO THE SLAG/AGGREGATE PROCESSING SYSTEM.
[RULE 1420]
7. RECORDS SHALL BE MAINTAINED AND INCLUDE THE FOLLOWING:
 - A. THE DATE OF APPLICATION AND TYPE OF DUST SUPPRESSANT APPLIED TO THE SLAG STOCKPILES, AND
 - B. THE DATE OF APPLICATION AND TYPE OF DUST SUPPRESSANT APPLIED TO THE UNPAVED ROADWAYS.ALL RECORDS SHALL BE MAINTAINED FOR A MINIMUM OF 5 YEARS AND BE MADE AVAILABLE TO THE EXECUTIVE OFFICER OR REPRESENTATIVE UPON REQUEST.
[RULE 1420]

FACILITY PERMIT TO OPERATE TERVITA LLC

PERMIT TO CONSTRUCT

Permit No.
A/N 542855

Equipment Description:

SLAG/AGGREGATE PROCESSING SYSTEM, CONSISTING OF:

1. HOPPER, RECEIVING, WITH GRIZZLY FEEDER, VIBRATING
2. PAN FEEDER, VIBRATING
3. CONVEYOR, BELT, MAIN, WITH SCALE, ENCLOSED
4. SCREEN, FERROUS, WITH DISCHARGE FINES HOPPER
5. CONVEYOR, BELT, CROSS OVER, ENCLOSED
6. SCREEN, NON-FERROUS, WITH DISCHARGE HOPPER
7. CONVEYOR, BELT, UNDER SCREEN, DISCHARGE FINES HOPPER, ENCLOSED
8. CONVEYOR, BELT, CRUSHER FEED, WITH MAGNET CONVEYOR, ENCLOSED
9. CRUSHER, WITH HYDRAULIC PUMP
10. CONVEYOR, BELT, UNDER CRUSHER, ENCLOSED
11. CONVEYOR, BELT, CLOSED CIRCUIT, ENCLOSED
12. TWO CONVEYORS, BELT, STACKING, FERROUS, ENCLOSED
13. TWO CONVEYORS, BELT, STACKING, NON-FERROUS, ENCLOSED
14. DRY FOG CONTROL SYSTEM

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

FACILITY PERMIT TO OPERATE TERVITA LLC

3. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS THE CRUSHER IS VENTED ONLY TO AIR POLLUTION CONTROL EQUIPMENT, WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED AN OPERATING PERMIT BY THE EXECUTIVE OFFICER.
[RULE 1303(a)(1)-BACT]
4. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS ALL EMISSION POINTS ARE CONTROLLED WITH THE USE OF A DRY FOG SPRAY SYSTEM.
[RULE 1303(a)(1)- BACT]
5. SLAG/AGGREGATE CHARGED AND IN PROCESS SHALL BE KEPT SUFFICIENTLY MOIST TO PREVENT VISIBLE DUST EMISSIONS.
[RULE 1303(a)(1)-BACT]
6. THIS EQUIPMENT SHALL NOT PROCESS MORE THAN 65,000 TONS OF MATERIAL IN ANY ONE CALENDAR MONTH.
[RULE 1303(b)(2)]

Periodic Monitoring:

7. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THERE IS A PUBLIC COMPLAINT OF VISIBLE EMISSIONS, WHENEVER VISIBLE EMISSIONS ARE OBSERVED, AND ON AN ANNUAL BASIS, AT LEAST, UNLESS THE EQUIPMENT DID NOT OPERATE DURING THE ENTIRE ANNUAL PERIOD. THE ROUTINE ANNUAL INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS. IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE-HOUR, THE OPERATOR SHALL EITHER:
 - A. VERIFY AND CERTIFY WITHIN 24 HOURS THAT THE EQUIPMENT CAUSING THE EMISSION AND ANY ASSOCIATED AIR POLLUTION CONTROL EQUIPMENT ARE OPERATING NORMALLY ACCORDING TO THEIR DESIGN AND STANDARD PROCEDURES AND UNDER THE SAME CONDITIONS UNDER WHICH COMPLIANCE WAS ACHIEVED IN THE PAST;
 - B. TAKE CORRECTIVE ACTION(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN ACCORDANCE WITH THE REPORTING REQUIREMENTS IN SECTION K OF THIS PERMIT; OR
 - C. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL "VISIBLE EMISSION EVALUATION", WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

- A. STACK OR EMISSION POINT IDENTIFICATION;
- B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;
- C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND
- D. VISIBLE EMISSION OBSERVATION RECORDED BY A CERTIFIED SMOKE READER.
[RULE 3004 (a)(4)]

FACILITY PERMIT TO OPERATE TERVITA LLC

Emissions and Requirements:

8. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 405, SEE APPENDIX B FOR EMISSION LIMITS.

FACILITY PERMIT TO OPERATE TERVITA LLC

PERMIT TO CONSTRUCT

Permit No.
A/N 542856

Equipment Description:

AIR POLLUTION CONTROL SYSTEM, CONSISTING OF:

1. DUST COLLECTOR, DONALDSON TORIT, MODEL CPV-12, PULSE JET CLEANING, WITH 12 FILTER CARTRIDGES, 805 SQ. FT. TOTAL FILTER AREA.
2. EXHAUST SYSTEM, 15 HP, VENTING A CRUSHER

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THE OPERATOR SHALL USE THIS EQUIPMENT IN SUCH A MANNER THAT THE DIFFERENTIAL PRESSURE ACROSS THE FILTER CARTRIDGES IS MAINTAINED BETWEEN 1" AND 6" INCHES WATER COLUMN. TO COMPLY WITH THIS CONDITION THE OPERATOR SHALL INSTALL AND MAINTAIN A DIFFERENTIAL PRESSURE INDICATOR TO ACCURATELY MEASURE THE DIFFERENTIAL PRESSURE ACROSS THE FILTER CARTRIDGES.
[RULE 1303(a)(1)-BACT]
4. THE OPERATOR SHALL ENSURE COMPLIANCE WITH ALL MONITORING AND RECORDKEEPING REQUIREMENTS IN RULE 1155.
[RULE 1155]
5. THE OPERATOR SHALL DISCHARGE DUST COLLECTED IN THIS EQUIPMENT ONLY INTO CLOSED CONTAINERS OR BACK TO PROCESS.
[RULE 1303(a)(1)-BACT]

Periodic Monitoring:

6. THE OPERATOR SHALL PERFORM AN ANNUAL INSPECTION OF THE EQUIPMENT AND FILTER MEDIA FOR LEAKS, BROKEN OR TORN FILTER MEDIA AND IMPROPERLY INSTALLED FILTER MEDIA. THE OPERATOR SHALL KEEP RECORDS, IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):
 - A. THE NAME OF THE PERSON PERFORMING THE INSPECTION AND/OR MAINTENANCE OF THE

FACILITY PERMIT TO OPERATE TERVITA LLC

FILTER MEDIA;

- B. THE DATE, TIME AND RESULTS OF THE INSPECTION; AND
- C. THE DATE, TIME AND DESCRIPTION OF ANY MAINTENANCE OR REPAIRS RESULTING FROM THE INSPECTION.

[RULE 3004 (a)(4)]

7. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THERE IS A PUBLIC COMPLAINT OF VISIBLE EMISSIONS, WHENEVER VISIBLE EMISSIONS ARE OBSERVED, AND ON AN ANNUAL BASIS, AT LEAST, UNLESS THE EQUIPMENT DID NOT OPERATE DURING THE ENTIRE ANNUAL PERIOD. THE ROUTINE ANNUAL INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS. IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED, THE OPERATOR SHALL TAKE CORRECTIVE ACTION(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN ACCORDANCE WITH THE REPORTING REQUIREMENTS IN SECTION K OF THIS PERMIT.

THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

- A. STACK OR EMISSION POINT IDENTIFICATION;
- B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS; AND
- C. DATE AND TIME VISIBLE EMISSION WAS ABATED.

[RULE 3004 (a)(4)]

Emissions and Requirements:

8. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS.

FACILITY PERMIT TO OPERATE TERVITA LLC

PERMIT TO CONSTRUCT

Permit No.
A/N 552382

Equipment Description:

SLAG/AGGREGATE LOADING SYSTEM, CONSISTING OF:

1. HOPPER, RECEIVING, 10-TON CAPACITY, WITH A DUST HOOD
2. CONVEYOR, BELT, COVERED, WITH A DISCHARGE DUST HOOD
4. LOADING, TRUCK OR RAILCAR, WITH A TELESCOPING LOADING SPOUT, AND A DUST CURTAIN
5. DRY FOG CONTROL SYSTEM

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. SLAG/AGGREGATE CHARGED AND IN PROCESS SHALL BE KEPT SUFFICIENTLY MOIST TO PREVENT VISIBLE DUST EMISSIONS.
[RULE 1303(a)(1)-BACT]
4. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS ALL EMISSION POINTS ARE CONTROLLED WITH THE USE OF A DRY FOG SPRAY SYSTEM.
[RULE 1303(a)(1)- BACT]
5. THIS EQUIPMENT SHALL NOT PROCESS MORE THAN 65,000 TONS OF MATERIAL IN ANY ONE CALENDAR MONTH.
[RULE 1303(b)(2)]

Periodic Monitoring:

6. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THERE IS A PUBLIC COMPLAINT OF VISIBLE EMISSIONS, WHENEVER VISIBLE EMISSIONS ARE OBSERVED, AND ON AN ANNUAL BASIS, AT LEAST, UNLESS THE EQUIPMENT DID NOT OPERATE DURING THE ENTIRE ANNUAL PERIOD. THE ROUTINE ANNUAL INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS. IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE

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THAN THREE MINUTES IN ANY ONE-HOUR, THE OPERATOR SHALL EITHER:

- A. VERIFY AND CERTIFY WITHIN 24 HOURS THAT THE EQUIPMENT CAUSING THE EMISSION AND ANY ASSOCIATED AIR POLLUTION CONTROL EQUIPMENT ARE OPERATING NORMALLY ACCORDING TO THEIR DESIGN AND STANDARD PROCEDURES AND UNDER THE SAME CONDITIONS UNDER WHICH COMPLIANCE WAS ACHIEVED IN THE PAST;
- B. TAKE CORRECTIVE ACTION(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN ACCORDANCE WITH THE REPORTING REQUIREMENTS IN SECTION K OF THIS PERMIT; OR
- C. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL "VISIBLE EMISSION EVALUATION", WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

- A. STACK OR EMISSION POINT IDENTIFICATION;
- B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;
- C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND
- D. VISIBLE EMISSION OBSERVATION RECORDED BY A CERTIFIED SMOKE READER.
[RULE 3004 (a)(4)]

Emissions and Requirements:

- 7. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 405, SEE APPENDIX B FOR EMISSION LIMITS.

FACILITY PERMIT TO OPERATE TERVITA LLC

RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, AIR CONDITIONING UNITS.

Emissions And Requirements:

1. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATION:

VOC: RULE 1415

FACILITY PERMIT TO OPERATE TERVITA LLC

RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, HAND WIPING OPERATIONS.

Emissions And Requirements:

1. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATION:

VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS

FACILITY PERMIT TO OPERATE TERVITA LLC

SECTION E: ADMINISTRATIVE CONDITIONS

The operating conditions in this section shall apply to all permitted equipment at this facility unless superseded by condition(s) listed elsewhere in this permit.

1. The permit shall remain effective unless this permit is suspended, revoked, modified, reissued, denied, or it is expired for nonpayment of permit processing or annual operating fees. [201, 203, 209, 301]
 - a. The permit must be renewed annually by paying annual operating fees, and the permit shall expire if annual operating fees are not paid pursuant to requirements of Rule 301(d). [301(d)]
 - b. The Permit to Construct listed in Section H shall expire one year from the Permit to Construct issuance date, unless a Permit to Construct extension has been granted by the Executive Officer or unless the equipment has been constructed and the operator has notified the Executive Officer prior to the operation of the equipment, in which case the Permit to Construct serves as a temporary Permit to Operate. [202, 205]
 - c. The Title V permit shall expire as specified under Section K of the Title V permit. The permit expiration date of the Title V facility permit does not supercede the requirements of Rule 205. [205, 3004]
2. The operator shall maintain all equipment in such a manner that ensures proper operation of the equipment. [204]
3. This permit does not authorize the emissions of air contaminants in excess of those allowed by Division 26 of the Health and Safety Code of the State of California or the Rules and Regulations of the AQMD. This permit cannot be considered as permission to violate existing laws, ordinances, regulations, or statutes of other governmental agencies. [204]
4. The operator shall not use equipment identified in this facility permit as being connected to air pollution control equipment unless they are so vented to the identified air pollution control equipment which is in full use and which has been included in this permit. [204]

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SECTION E: ADMINISTRATIVE CONDITIONS

5. The operator shall not use any equipment having air pollution control device(s) incorporated within the equipment unless the air pollution control device is in full operation. [204]
6. The operator shall maintain records to demonstrate compliance with rules or permit conditions that limit equipment operating parameters, or the type or quantity of material processed. These records shall be made available to AQMD personnel upon request and be maintained for at least five years. [204]
7. The operator shall maintain and operate all equipment to ensure compliance with all emission limits as specified in this facility permit. Compliance with emission limits shall be determined according to the following specifications, unless otherwise specified by AQMD rules or permit conditions: [204]
 - a. For internal combustion engines and gas turbines, measured concentrations shall be corrected to 15 percent stack-gas oxygen content on a dry basis and be averaged over a period of 15 consecutive minutes; [1110.2, 1134]
 - b. For other combustion devices, measured concentrations shall be corrected to 3 percent stack-gas oxygen content on a dry basis and be averaged over a period of 15 consecutive minutes; [1146, 1146.1, 204]
 - c. For non-combustion sources, compliance with emission limits shall be determined and averaged over a period of 60 minutes; [204]
 - d. For the purpose of determining compliance with Rule 407, carbon monoxide (CO) shall be measured on a dry basis and be averaged over 15 consecutive minutes, and sulfur compounds which would exist as liquid or gas at standard conditions shall be calculated as sulfur dioxide (SO₂) and be averaged over 15 consecutive minutes; [407]
 - e. For the purpose of determining compliance with Rule 409, combustion contaminant emission measurements shall be corrected to 12 percent of carbon dioxide (CO₂) at standard conditions and averaged over a minimum of 15 consecutive minutes. [409]

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SECTION E: ADMINISTRATIVE CONDITIONS

- f. For the purpose of determining compliance with Rule 475, combustion contaminant emission measurements shall be corrected to 3 percent of oxygen (O₂) at standard conditions and averaged over 15 consecutive minutes or any other averaging time specified by the Executive Officer. [475]
8. The operator shall, when a source test is required by AQMD, provide a source test protocol to AQMD no later than 60 days before the proposed test date. The test shall not commence until the protocol is approved by AQMD. The test protocol shall contain the following information: [204, 304]
 - a. Brief description of the equipment tested.
 - b. Brief process description, including maximum and normal operating temperatures, pressures, throughput, etc.
 - c. Operating conditions under which the test will be performed.
 - d. Method of measuring operating parameters, such as fuel rate and process weight. Process schematic diagram showing the ports and sampling locations, including the dimensions of the ducts and stacks at the sampling locations, and distances of flow disturbances, (e.g. elbows, tees, fans, dampers) from the sampling locations (upstream and downstream).
 - e. Brief description of sampling and analytical methods used to measure each pollutant, temperature, flow rates, and moisture.
 - f. Description of calibration and quality assurance procedures.
 - g. Determination that the testing laboratory qualifies as an "independent testing laboratory" under Rule 304 (conflict of interest).
9. The operator shall submit a report no later than 60 days after conducting a source test, unless otherwise required by AQMD rules or equipment-specific conditions. The report shall contain the following information: [204]
 - a. The results of the source test.

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SECTION E: ADMINISTRATIVE CONDITIONS

- b. Brief description of the equipment tested.
 - c. Operating conditions under which the test was performed.
 - d. Method of measuring operating parameters, such as fuel rate and process weight. Process schematic diagram showing the ports and sampling locations, including the dimensions of the ducts and stacks at the sampling locations, and distances of flow disturbances, (e.g. elbows, tees, fans, dampers) from the sampling locations (upstream and downstream).
 - e. Field and laboratory data forms, strip charts and analyses.
 - f. Calculations for volumetric flow rates, emission rates, control efficiency, and overall control efficiency.
10. The operator shall, when a source test is required, provide and maintain facilities for sampling and testing. These facilities shall comply with the requirements of AQMD Source Test Method 1.1 and 1.2. [217]
11. Whenever required to submit a written report, notification or other submittal to the Executive Officer, AQMD, or the District, the operator shall mail or deliver the material to: Deputy Executive Officer, Engineering and Compliance, AQMD, 21865 E. Copley Drive, Diamond Bar, CA 91765-4182. [204]

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SECTION F: RECLAIM MONITORING AND SOURCE TESTING REQUIREMENTS

NOT APPLICABLE

**FACILITY PERMIT TO OPERATE
TERVITA LLC**

**SECTION G: RECORDKEEPING AND REPORTING REQUIREMENTS FOR
RECLAIM SOURCES**

NOT APPLICABLE

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TERVITA LLC**

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

NONE

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SECTION I: PLANS AND SCHEDULES

This section lists all plans approved by AQMD for the purposes of meeting the requirements of applicable AQMD rules.

NONE

NOTE: This section does not list compliance schedules pursuant to the requirements of Regulation XXX - Title V Permits; Rule 3004(a)(10)(C). For equipment subject to a variance, order for abatement, or alternative operating condition granted pursuant to Rule 518.2, equipment specific conditions are added to the equipment in Section D or H of the permit.

**FACILITY PERMIT TO OPERATE
TERVITA LLC**

SECTION J: AIR TOXICS

NOT APPLICABLE

FACILITY PERMIT TO OPERATE TERVITA LLC

SECTION K: TITLE V Administration

GENERAL PROVISIONS

1. This permit may be revised, revoked, reopened and reissued, or terminated for cause, or for failure to comply with regulatory requirements, permit terms, or conditions. [3004(a)(7)(C)]
2. This permit does not convey any property rights of any sort or any exclusive privilege. [3004(a)(7)(E)]

Permit Renewal and Expiration

3. (A) Except for solid waste incineration facilities subject to standards under section 129(e) of the Clean Air Act, this permit shall expire five years from the date that this Title V permit is issued. The operator's right to operate under this permit terminates at midnight on this date, unless the facility is protected by an application shield in accordance with Rule 3002(b), due to the filing of a timely and complete application for a Title V permit renewal, consistent with Rule 3003. [3004(a)(2), 3004(f)]

(B) A Title V permit for a solid waste incineration facility combusting municipal waste subject to standards under Section 129(e) of the Clean Air Act shall expire 12 years from the date of issuance unless such permit has been renewed pursuant to this regulation. These permits shall be reviewed by the Executive Officer at least every five years from the date of issuance. [3004(f)(2)]
4. To renew this permit, the operator shall submit to the Executive Officer an application for renewal at least 180 days, but not more than 545 days, prior to the expiration date of this permit. [3003(a)(6)]

Duty to Provide Information

5. The applicant for, or holder of, a Title V permit shall furnish, pursuant to Rule 3002(d) and (e), timely information and records to the Executive Officer or designee within a reasonable time as specified in writing by the Executive Officer or designee. [3004(a)(7)(F)]

Payment of Fees

6. The operator shall pay all required fees specified in Regulation III - Fees. [3004(a)(7)(G)]

FACILITY PERMIT TO OPERATE TERVITA LLC

SECTION K: TITLE V Administration

Reopening for Cause

7. The Executive Officer will reopen and revise this permit if any of the following circumstances occur:
- (A) Additional regulatory requirements become applicable with a remaining permit term of three or more years. Reopening is not required if the effective date of the requirement is later than the expiration date of this permit, unless the permit or any of its terms and conditions has been extended pursuant to paragraph (f)(4) of Rule 3004.
 - (B) The Executive Officer or EPA Administrator determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.
 - (C) The Executive Officer or EPA Administrator determines that the permit must be revised or revoked to assure compliance with the applicable requirements. [3005(g)(1)]

COMPLIANCE PROVISIONS

8. The operator shall comply with all regulatory requirements, and all permit terms and conditions, except:
- (A) As provided for by the emergency provisions of condition no. 17 or condition no. 18, or
 - (B) As provided by an alternative operating condition granted pursuant to a federally approved (SIP-approved) Rule 518.2.

Any non-compliance with any federally enforceable permit condition constitutes a violation of the Federal Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or revision; or denial of a permit renewal application. Non-compliance may also be grounds for civil or criminal penalties under the California State Health and Safety Code. [3004(a)(7)(A)]

FACILITY PERMIT TO OPERATE TERVITA LLC

SECTION K: TITLE V Administration

9. The operator shall allow the Executive Officer or authorized representative, upon presentation of appropriate credentials to:
 - (A) Enter the operator's premises where emission-related activities are conducted, or records are kept under the conditions of this permit;
 - (B) Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
 - (C) Inspect at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
 - (D) Sample or monitor at reasonable times, substances or parameters for the purpose of assuring compliance with the facility permit or regulatory requirements. [3004(a)(10)(B)]

10. All terms and conditions in this permit, including any provisions designed to limit a facility's potential to emit, are enforceable by the EPA Administrator and citizens under the federal Clean Air Act, unless the term or condition is designated as not federally enforceable. Each day during any portion of which a violation occurs is a separate offense. [3004(g)]

11. A challenge to any permit condition or requirement raised by EPA, the operator, or any other person, shall not invalidate or otherwise affect the remaining portions of this permit. [3007(b)]

12. The filing of any application for a permit revision, revocation, or termination, or a notification of planned changes or anticipated non-compliance does not stay any permit condition. [3004(a)(7)(D)]

13. It shall not be a defense for a person in an enforcement action, including those listed in Rule 3002(c)(2), that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit, except as provided for in "Emergency Provisions" of this section. [3004(a)(7)(H)]

FACILITY PERMIT TO OPERATE TERVITA LLC

SECTION K: TITLE V Administration

14. The operator shall not build, erect, install, or use any equipment, the use of which, without resulting in a reduction in the total release of air contaminants to atmosphere, reduces or conceals an emission which would otherwise constitute a violation of Chapter 3 (commencing with Section 41700) of Part 4, of Division 26 of the California Health and Safety Code or of AQMD rules. This rule shall not apply to cases in which the only violation involved is of Section 41700 of the California Health and Safety Code, or Rule 402 of AQMD Rules. [408]
15. Nothing in this permit or in any permit shield can alter or affect:
- (A) Under Section 303 of the federal Clean Air Act, the provisions for emergency orders;
 - (B) The liability of the operator for any violation of applicable requirements prior to or at the time of permit issuance;
 - (C) The applicable requirements of the Acid Rain Program, Regulation XXXI;
 - (D) The ability of EPA to obtain information from the operator pursuant to Section 114 of the federal Clean Air Act;
 - (E) The applicability of state or local requirements that are not "applicable requirements", as defined in Rule 3000, at the time of permit issuance but which do apply to the facility, such as toxics requirements unique to the State; and
 - (F) The applicability of regulatory requirements with compliance dates after the permit issuance date. [3004(c)(3)]
16. For any portable equipment that requires an AQMD or state permit or registration, excluding a) portable engines, b) military tactical support equipment and c) AQMD-permitted portable equipment that are not a major source, are not located at the facility for more than 12 consecutive months after commencing operation, and whose operation does not conflict with the terms or conditions of this Title V permit: 1) the facility operator shall keep a copy of the AQMD or state permit or registration; 2) the equipment operator shall comply with the conditions on the permit or registration and all other regulatory requirements; and 3) the facility operator shall treat the permit or registration as a part of its Title V permit, subject to recordkeeping, reporting and certification requirements. [3004(a)(1)]

FACILITY PERMIT TO OPERATE TERVITA LLC

SECTION K: TITLE V Administration EMERGENCY PROVISIONS

17. An emergency¹ constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limit only if:
- (A) Properly signed, contemporaneous operating records or other credible evidence demonstrate that:
 - (1) An emergency occurred and the operator can identify the cause(s) of the emergency;
 - (2) The facility was operated properly (i.e. operated and maintained in accordance with the manufacturer's specifications, and in compliance with all regulatory requirements or a compliance plan), before the emergency occurred;
 - (3) The operator took all reasonable steps to minimize levels of emissions that exceeded emissions standard, or other requirements in the permit; and,
 - (4) The operator submitted a written notice of the emergency to the AQMD within two working days of the time when the emissions limitations were exceeded due to the emergency. The notice shall contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken; and
 - (B) The operator complies with the breakdown provisions of Rule 430 – Breakdown Provisions, or subdivision (i) of Rule 2004 – Requirements, whichever is applicable. [3002(g), 430, 2004(i)]
18. The operator is excused from complying with any regulatory requirement that is suspended by the Executive Officer during a state of emergency or state of war emergency, in accordance with Rule 118 - Emergencies. [118]

¹ "Emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the operator, including acts of God, which: (A) requires immediate corrective action to restore normal operation; and (B) causes the facility to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency; and (C) is not caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

FACILITY PERMIT TO OPERATE TERVITA LLC

SECTION K: TITLE V Administration RECORDKEEPING PROVISIONS

19. In addition to any other recordkeeping requirements specified elsewhere in this permit, the operator shall keep records of required monitoring information, where applicable, that include:

- (A) The date, place as defined in the Title V permit, and time of sampling or measurements;
- (B) The date(s) analyses were performed;
- (C) The company or entity that performed the analyses;
- (D) The analytical techniques or methods used;
- (E) The results of such analyses; and
- (F) The operating conditions as existing at the time of sampling or measurement. [3004(a)(4)(B)]

20. The operator shall maintain records pursuant to Rule 109 and any applicable material safety data sheet (MSDS) for any equipment claimed to be exempt from a written permit by Rule 219 based on the information in those records. [219(t)]

21. The operator shall keep all records of monitoring data required by this permit or by regulatory requirements for a period of at least five years from the date of the monitoring sample, measurement, report, or application. [3004(a)(4)(E)]

REPORTING PROVISIONS

22. The operator shall comply with the following requirements for prompt reporting of deviations:

- (A) Breakdowns shall be reported as required by Rule 430 – Breakdown Provisions or subdivision (i) of Rule 2004 - Requirements, whichever is applicable.

FACILITY PERMIT TO OPERATE TERVITA LLC

SECTION K: TITLE V Administration

- (B) Other deviations from permit or applicable rule emission limitations, equipment operating conditions, or work practice standards, determined by observation or by any monitoring or testing required by the permit or applicable rules that result in emissions greater than those allowed by the permit or applicable rules shall be reported within 72 hours (unless a shorter reporting period is specified in an applicable State or Federal Regulation) of discovery of the deviation by contacting AQMD enforcement personnel assigned to this facility or otherwise calling (800) CUT-SMOG.
 - (C) A written report of such deviations reported pursuant to (B), and any corrective actions or preventative measures taken, shall be submitted to AQMD, in an AQMD approved format, within 14 days of discovery of the deviation.
 - (D) All other deviations shall be reported with the monitoring report required by condition no. 23. [3004(a)(5)]
23. Unless more frequent reporting of monitoring results are specified in other permit conditions or in regulatory requirements, the operator shall submit reports of any required monitoring to the AQMD at least twice per year. The report shall include a) a statement whether all monitoring required by the permit was conducted; and b) identification of all instances of deviations from permit or regulatory requirements. A report for the first six calendar months of the year is due by August 31 and a report for the last six calendar months of the year is due by February 28. [3004(a)(4)(F)]
24. The operator shall submit to the Executive Officer and to the Environmental Protection Agency (EPA), an annual compliance certification. For RECLAIM facilities, the certification is due when the Annual Permit Emissions Program (APEP) report is due and shall cover the same reporting period. For other facilities, the certification is due on March 1 for the previous calendar year. The certification need not include the period preceding the date the initial Title V permit was issued. Each compliance certification shall include:
- (A) Identification of each permit term or condition that is the basis of the certification;

FACILITY PERMIT TO OPERATE TERVITA LLC

SECTION K: TITLE V Administration

- (B) The compliance status during the reporting period;
- (C) Whether compliance was continuous or intermittent;
- (D) The method(s) used to determine compliance over the reporting period and currently, and
- (E) Any other facts specifically required by the Executive Officer to determine compliance.

The EPA copy of the certification shall be sent to: Director of the Air Division Attn:
Air-3 USEPA, Region IX 75 Hawthorne St. San Francisco, CA 94105 [3004(a)(10)(E)]

25. All records, reports, and documents required to be submitted by a Title V operator to AQMD or EPA shall contain a certification of accuracy consistent with Rule 3003(c)(7) by a responsible official (as defined in Rule 3000). [3004(a)(12)]

PERIODIC MONITORING

26. All periodic monitoring required by this permit pursuant to Rule 3004(a)(4)(c) is based on the requirements and justifications in the AQMD document "Periodic Monitoring Guidelines for Title V Facilities" or in case-by-case determinations documented in the TitleV application file. [3004(a)(4)]

FACILITY PERMIT TO OPERATE TERVITA LLC

SECTION K: TITLE V Administration

FACILITY RULES

This facility is subject to the following rules and regulations

With the exception of Rule 402, 473, 477, 1118 and Rules 1401 through 1420, the following rules that are designated as non-federally enforceable are pending EPA approval as part of the state implementation plan. Upon the effective date of that approval, the approved rule(s) will become federally enforceable, and any earlier versions of those rules will no longer be federally enforceable.

RULE SOURCE	Adopted/Amended Date	FEDERAL Enforceability
RULE 1155	12-4-2009	Non federally enforceable
RULE 1171	2-1-2008	Federally enforceable
RULE 1171	5-1-2009	Non federally enforceable
RULE 1303(a)(1)-BACT	12-6-2002	Non federally enforceable
RULE 1303(a)(1)-BACT	5-10-1996	Federally enforceable
RULE 1303(b)(2)-Offset	12-6-2002	Non federally enforceable
RULE 1303(b)(2)-Offset	5-10-1996	Federally enforceable
RULE 1415	12-3-2010	Non federally enforceable
RULE 204	10-8-1993	Federally enforceable
RULE 219	5-3-2013	Non federally enforceable
RULE 3004(a)(4)-Periodic Monitoring	12-12-1997	Federally enforceable
RULE 401	11-9-2001	Non federally enforceable
RULE 401	3-2-1984	Federally enforceable
RULE 402	5-7-1976	Non federally enforceable
RULE 403	4-2-2004	Federally enforceable
RULE 403	6-3-2005	Non federally enforceable
RULE 404	2-7-1986	Federally enforceable
RULE 405	2-7-1986	Federally enforceable
RULE 430	7-12-1996	Non federally enforceable
RULE 431.2	5-4-1990	Federally enforceable
RULE 431.2	9-15-2000	Non federally enforceable

**FACILITY PERMIT TO OPERATE
TERVITA LLC**

**APPENDIX A: NOX AND SOX EMITTING EQUIPMENT EXEMPT FROM WRITTEN
PERMIT PURSUANT TO RULE 219**

1. I.C. ENGINES \leq 50 HP

FACILITY PERMIT TO OPERATE TERVITA LLC

APPENDIX B: RULE EMISSION LIMITS [RULE 404 02-07-1986]

The operator shall not discharge into the atmosphere from this equipment, particulate matter in excess of the concentration at standard conditions, shown in Table 404(a).

Where the volume discharged is between figures listed in the Table, the exact concentration permitted to be discharged shall be determined by linear interpolation.

For the purposes of this rule, emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.

TABLE 404(a)

Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter ² Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions		Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions	
		Milligrams per Cubic Meter	Grains per Cubic Foot			Milligrams per Cubic Meter	Grains per Cubic Foot
Cubic meters Per Minute	Cubic feet Per Minute			Cubic meters Per Minute	Cubic feet Per Minute		
25 or less	883 or less	450	0.196	900	31780	118	0.0515
30	1059	420	.183	1000	35310	113	.0493
35	1236	397	.173	1100	38850	109	.0476
40	1413	377	.165	1200	42380	106	.0463
45	1589	361	.158	1300	45910	102	.0445

**FACILITY PERMIT TO OPERATE
 TERVITA LLC**

**APPENDIX B: RULE EMISSION LIMITS
 [RULE 404 02-07-1986]**

Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions		Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions	
Cubic meters Per Minute	Cubic feet Per Minute	Milligrams per Cubic Meter	Grains per Cubic Foot	Cubic meters Per Minute	Cubic feet Per Minute	Milligrams per Cubic Meter	Grains per Cubic Foot
50	1766	347	.152	1400	49440	100	.0437
60	2119	324	.141	1500	52970	97	.0424
70	2472	306	.134	1750	61800	92	.0402
80	2825	291	.127	2000	70630	87	.0380
90	3178	279	.122	2250	79460	83	.0362
100	3531	267	.117	2500	88290	80	.0349
125	4414	246	.107	3000	105900	75	.0327
150	5297	230	.100	4000	141300	67	.0293
175	6180	217	.0947	5000	176600	62	.0271
200	7063	206	.0900	6000	211900	58	.0253
250	8829	190	.0830	8000	282500	52	.0227
300	10590	177	.0773	10000	353100	48	.0210
350	12360	167	.0730	15000	529700	41	.0179
400	14130	159	.0694	20000	706300	37	.0162
450	15890	152	.0664	25000	882900	34	.0148

FACILITY PERMIT TO OPERATE TERVITA LLC

APPENDIX B: RULE EMISSION LIMITS [RULE 404 02-07-1986]

Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions		Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions	
		Milligrams per Cubic Meter	Grains per Cubic Foot			Milligrams per Cubic Meter	Grains per Cubic Foot
Cubic meters Per Minute	Cubic feet Per Minute			Cubic meters Per Minute	Cubic feet Per Minute		
500	17660	146	.0637	30000	1059000	32	.0140
600	21190	137	.0598	40000	1413000	28	.0122
700	24720	129	.0563	50000	1766000	26	.0114
800	28250	123	.0537	70000 or more	2472000 or more	23	.0100

FACILITY PERMIT TO OPERATE TERVITA LLC

APPENDIX B: RULE EMISSION LIMITS [RULE 405 02-07-1986]

The operator shall not discharge into the atmosphere from this equipment, solid particulate matter including lead and lead compounds in excess of the rate shown in Table 405(a).

Where the process weight per hour is between figures listed in the table, the exact weight of permitted discharge shall be determined by linear interpolation.

For the purposes of this rule, emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.

TABLE 405(a)

Process Weight Per Hour		Maximum Discharge Rate Allowed for Solid Particulate Matter (Aggregate Discharged From All Points of Process		Process Weight Per Hour		Maximum Discharge Rate Allowed for Solid Particulate Matter (Aggregate Discharged From All points of Process	
		Kilograms Per Hour	Pounds Per Hour			Kilograms Per Hour	Pounds Per Hour
100 or less	220 or less	0.450	0.99	9000	19840	5.308	11.7
150	331	0.585	1.29	10000	22050	5.440	12.0
200	441	0.703	1.55	12500	27560	5.732	12.6
250	551	0.804	1.77	15000	33070	5.982	13.2
300	661	0.897	1.98	17500	38580	6.202	13.7
350	772	0.983	2.17	20000	44090	6.399	14.1
400	882	1.063	2.34	25000	55120	6.743	14.9
450	992	1.138	2.51	30000	66140	7.037	15.5
500	1102	1.209	2.67	35000	77160	7.296	16.1
600	1323	1.340	2.95	40000	88180	7.527	16.6

FACILITY PERMIT TO OPERATE TERVITA LLC

APPENDIX B: RULE EMISSION LIMITS [RULE 405 02-07-1986]

Process Weight Per Hour		Maximum Discharge Rate Allowed for Solid Particulate Matter (Aggregate Discharged From All Points of Process		Process Weight Per Hour		Maximum Discharge Rate Allowed for Solid Particulate Matter (Aggregate Discharged From All points of Process	
		Kilograms Per Hour	Pounds Per Hour			Kilograms Per Hour	Pounds Per Hour
700	1543	1.461	3.22	45000	99210	7.738	17.1
800	1764	1.573	3.47	50000	110200	7.931	17.5
900	1984	1.678	3.70	60000	132300	8.277	18.2
1000	2205	1.777	3.92	70000	154300	8.582	18.9
1250	2756	2.003	4.42	80000	176400	8.854	19.5
1500	3307	2.206	4.86	90000	198400	9.102	20.1
1750	3858	2.392	5.27	100000	220500	9.329	20.6
2000	4409	2.563	5.65	125000	275600	9.830	21.7
2250	4960	2.723	6.00	150000	330700	10.26	22.6
2500	5512	2.874	6.34	175000	385800	10.64	23.5
2750	6063	3.016	6.65	200000	440900	10.97	24.2
3000	6614	3.151	6.95	225000	496000	11.28	24.9
3250	7165	3.280	7.23	250000	551200	11.56	25.5
3600	7716	3.404	7.50	275000	606300	11.82	26.1
4000	8818	3.637	8.02	300000	661400	12.07	26.6
4500	9921	3.855	8.50	325000	716500	12.30	27.1
5000	11020	4.059	8.95	350000	771600	12.51	27.6
6000	13230	4.434	9.78	400000	881800	12.91	28.5
7000	15430	4.775	10.5	450000	992100	13.27	29.3
8000	17640	5.089	11.2	500000 or more	1102000 or more	13.60	30.0

South Coast Air Quality Management District

Statement of Basis

Proposed Initial Title V Permit

Facility Name:	Tervita LLC
Facility ID:	172593
SIC Code:	3299
Equipment Location:	12459-B Arrow Route Rancho Cucamonga, CA 91739
Application #(s):	551873
Application Submittal Date(s):	5/30/13
Permit Revision #:	Initial
Revision Date:	Initial
Permit Section(s) Affected:	All
SCAQMD Contact Person:	Richard Hawrylew, Air Quality Engineer
Phone Number:	(909) 396-2657
E-Mail Address:	rhawrylew@aqmd.gov

1. Introduction and Scope of Permit

Title V is a national operating permit program for air pollution sources. Facilities subject to Title V must obtain a Title V permit and comply with specific Title V procedures to modify the permit. Title V does not necessarily include any new requirements for reducing emissions. It does, however, include new permitting, noticing, recordkeeping, and reporting requirements.

Pursuant to Title V of the federal Clean Air Act and SCAQMD Rule 3004(f), a Title V permit shall expire five years from the date of issuance unless such permit has been renewed. Accordingly, each facility is required to submit a Title V renewal application and request the SCAQMD to renew their Title V permit. The proposed permit incorporates the facility information provided in the facility's initial Title V application and all rules and regulations that are currently applicable to the facility.

The SCAQMD implements Title V through Regulation XXX – Title V Permits, adopted by the SCAQMD Governing Board in order to comply with EPA's requirement that local air permitting authorities develop a Title V program. Regulation XXX was developed with the participation of the public and affected facilities through a series of public workshops, working group meetings, public hearings and other meetings.

The Title V major source threshold for a particular pollutant depends on the attainment status of the pollutant. NO₂, SO₂, CO and lead are in attainment with federal standards. The status for PM-10 is serious nonattainment. The status for ozone is currently extreme non-attainment.

A Title V permit is proposed to be issued to cover the operations of Tervita LLC located at 12459-D Arrow Route, Rancho Cucamonga. This facility is subject to Title V requirements because it is collocated at a Title V facility (Gerdau, ID# 018931) and processes the slag materials produced by Gerdau. This facility is not subject to any NSPS (New Source Performance Standards) requirements.

2. Facility Description

This is a new facility that is in the business of producing aggregate material from the slag produced in an electric arc furnace at a collocated facility. This facility will have a crusher, screens, conveyors and hoppers with associated dust collector and dry fog system.

3. Construction and Permitting History

The facility is a new proposed facility. Construction has not yet been initiated.

4. Regulatory Applicability Determinations

Applicable legal requirements for which this facility is required to comply are required to be identified in the Title V permit (for example, Section D, E, and H of the proposed Title V permit). Applicability determinations (i.e., determinations made by the District with respect to what legal requirements apply to a specific piece of equipment, process, or operation) can be found in the Engineering Evaluations. This facility is not subject to any NESHAP or NSPS requirements.

5. Monitoring and Operational Requirements

Applicable monitoring and operational requirements for which the facility is required to comply are identified in the Title V permit (for example, Section D, F, and J and Appendix B of the proposed Title V permit). Discussion of any applicable operational requirements can be found in the Engineering Evaluations. All periodic monitoring requirements were developed using strict adherence to the following applicable guidance documents: SCAQMD Periodic Monitoring Guidelines for Title V Facilities (November 1997); CAPCOA/CARB/EPA Region IX Periodic Monitoring Recommendations for Generally Applicable Requirements in SIP (June 1999); and CAPCOA/CARB/EPA Region IX Recommended Periodic Monitoring for Generally Applicable Grain Loading Standards in the SIP; Combustion Sources (July 2001). This facility has a dust collector to control PM10 emissions and the uncontrolled PM10 emission does not exceed 70 tons/year. Compliance Assurance Monitoring (CAM) requirements of 40 CFR Part 64 do not apply to any units at the facility.

6. Permit Features

Permit Shield

A permit shield is an optional part of a Title V permit that gives the facility an explicit protection from requirements that do not apply to the facility. A permit shield is a provision in a permit that states that compliance with the conditions of the permit shall be deemed compliance with all identified regulatory requirements. To incorporate a permit shield into the Title V permit involves submission of applications for change of conditions for each equipment affected by the permit shield. Permit shields are addressed in Rule 3004 (c). This facility has not applied for a permit shield for any rule.

Streamlining Requirements

Some emission units may be subject to multiple requirements which are closely related or redundant. The conditions may be streamlined to simplify the permit conditions and compliance. Emission limits, work practice standards, and monitoring, recordkeeping, and reporting requirements may be streamlined. Compliance with a streamlined condition will be deemed compliance with the underlying requirements whether or not the emission unit is actually in compliance with the specific underlying requirement. This facility has not applied for any streamlined conditions.

7. Summary of Emissions and Health Risks

This is a new facility, therefore, there is no historic emissions and/or health risks.

8. Compliance History

As noted, this is a proposed new facility, therefore, there is no history of compliance activity. The facility will be subject to both self-reporting requirements and SCAQMD inspections.

9. Compliance Certification

By virtue of the Title V permit application and issuance of this permit, the reporting frequency for compliance certification for the facility shall be annual.

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT	PAGES	PAGE
	15	1
ENGINEERING AND COMPLIANCE DIVISION	APPL. NO.	DATE
	See Below	07-31-13
APPLICATION PROCESSING AND CALCULATIONS	PROCESSOR	REVIEWER
	RHH	

PERMIT TO CONSTRUCT ANALYSIS

FACILITY MAILING ADDRESS

Tervita LLC
12459-B Arrow Route
Rancho Cucamonga, CA 91739

EQUIPMENT LOCATION

Tervita LLC
12459-B Arrow Route
Rancho Cucamonga, CA 91739

(ID# 172593, Title V facility)

EQUIPMENT DESCRIPTION

A/N 542855 *New*

SLAG/AGGREGATE PROCESSING SYSTEM, CONSISTING OF:

1. HOPPER, RECEIVING, WITH GRIZZLY FEEDER, VIBRATING
2. PAN FEEDER, VIBRATING
3. CONVEYOR, BELT, MAIN, WITH SCALE, ENCLOSED
4. SCREEN, FERROUS, WITH DISCHARGE FINES HOPPER
5. CONVEYOR, BELT, CROSS OVER, ENCLOSED
6. SCREEN, NON-FERROUS, WITH DISCHARGE HOPPER
7. CONVEYOR, BELT, UNDER SCREEN, WITH DISCHARGE FINES HOPPER, ENCLOSED
8. CONVEYOR, BELT, CRUSHER FEED, WITH MAGNET CONVEYOR, ENCLOSED
9. CRUSHER, WITH HYDRAULIC PUMP (VENTED TO DUST COLLECTOR)
10. CONVEYOR, BELT, UNDER CRUSHER, ENCLOSED
11. CONVEYOR, BELT, CLOSED CIRCUIT, ENCLOSED
12. TWO CONVEYORS, BELT, STACKING, FERROUS, ENCLOSED
13. TWO CONVEYORS, BELT, STACKING, NON-FERROUS, ENCLOSED
14. DRY FOG CONTROL SYSTEM FOR ALL TRANSFER POINTS

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A/N 542856 *New*

AIR POLLUTION CONTROL SYSTEM, CONSISTING OF:

1. DUST COLLECTOR, DONALDSON TORIT, MODEL CPV-12, PULSE JET CLEANING, WITH 12 FILTER CARTRIDGES, 804 SQ.FT. TOTAL FILTER AREA.
2. EXHAUST SYSTEM WITH A 15-HP BLOWER VENTING A CRUSHER.

A/N 551873

Initial Title V permit application

This application is for the sole purpose of generating the initial Title V permit for this facility.

A/N 552382 *New*

SLAG/AGGREGATE LOADING SYSTEM, CONSISTING OF:

1. HOPPER, RECEIVING, 10-TON CAPACITY, WITH A DUST HOOD
2. CONVEYOR, BELT, COVERED, WITH A DISCHARGE DUST HOOD
3. LOADING, TRUCK OR RAILCAR, WITH A TELESCOPING LOADING SPOUT, AND DUST CURTAIN
4. DRY FOG CONTROL SYSTEM

HISTORY

The applications have the following validated receipt dates:

<u>A/N</u>	<u>Validated receipt date</u>
542855	9/18/12
542856	9/18/12
551873	5/30/13
552382	5/30/13

The subject applications were submitted for a new facility located at the property of TAMCO/Gerdau (ID# 018931). Expedited processing was requested, but the applications were previously placed on hold until monitoring had been

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conducted at the TAMCO/Gerdau site. The results did not provide any information to continue to keep these applications on hold. Additionally, this facility replaces a similar plant previously operated by Tube City (ID# 115558).

Although the facility will not exceed the emission threshold limits, for entry as a Title V facility, M. Nazemi, DEO, decided that based on the relationship with the TAMCO/Gerdau site, a Title V facility, that this facility shall also be a Title V facility. Additionally, Tervita staff has stated that since this facility is located within the same property and will solely process material from TAMCO/Gerdau, which is currently a Title V facility, Tervita is applying to become a Title V facility per USEPA requirements. The Title V application is A/N 551873, that will be processed together with the other subject applications of this report.

A/N 542855 was submitted for a P/C for the Slag/Aggregate Processing System.

A/N 542856 was submitted for a P/C for the Dust Collector associated with the Slag/Aggregate Processing Stacking System (A/N 542856), that will vent the crusher only.

A/N 551873 was submitted as the initial Title V permit application.

A/N 552382 was submitted for a P/C for the Slag/Aggregate Loading System.

PROCESS DESCRIPTION

Slag is a mostly non-metallic byproduct that is produced from the production of steel. The typical composition of the slag, at this facility, includes of calcium oxide, iron oxide, magnesium oxide, and trace amounts of manganese oxide, titanium dioxide, chromium, and sulfur.

Slag from the TAMCO/Gerdau facility will be transferred either by truck or endloader from the slag pit to cooling

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piles located at the Tervita facility. Initially, slag will be processed from existing piles of slag that have been accumulating for many months. The PWR for processing of existing piles will be up to 235.22 tons/hr (2,167 tons/day). The processing of the accumulated piles could take from 12-18 months to process. After these accumulated piles are processed, the average operation will be reduced to about 69 tons/hr (417 tons/day), but for PTE considerations the higher PWR of 235.22 tons/hr (2,167 tons/day) will be used.

Slag will be transferred from the existing and cooling piles to the grizzly feeder, of the Slag/Aggregate Processing System (A/N 542856), by endloader. The slag will then be crushed and sized through screens, and finally transferred to the specific product piles. The products from the conveyors are sprayed with water to suppress fugitive dust and as they are piled. The material is then transferred from the piles, by endloader, to the Slag/Aggregate Loading System (A/N 552382). The material will then be transferred to a receiving hopper, and to trucks or railcars by conveyor. The material produced is used as construction aggregate.

The control of emissions will be with the use of a dust collector (A/N 542856) that will vent the crusher. Additionally, dry fog sprays will be used at each material transfer point of each system, including screens.

The following is an exerp of EPA review of control technology for coal handling equipment:

(Ref: Federal Register/Vol. 74, No. 100, May 27, 2009/Proposed Rules, Page 25313)

"Based on our review of public comments and subsequent analysis, we have concluded that a baghouse is not the only technology that is BDT for coal-handling equipment used on subbituminous and lignite coals. Depending on the plant-specified circumstances, all four technologies (fabric filters, PECS, fogging systems and wet extraction scrubbers) can control PM emissions equally well. They all provide equivalent levels of emissions reductions; in addition, fogging systems,

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PECS, and the wet extraction systems often have lower costs than baghouses."

Note: BDT = Best Demonstrated Technology
PECS = Passive Enclosure Containment Systems

Therefore, the proposed dry fog system is considered to be BACT equivalent or better for this service.

EVALUATION

A/N 542855

Given:

- Operating schedule: 9.2 hrs/day, 7 days/wk, 52 wks/yr
(Based on maximum hourly, daily and monthly PWR advised in July 12, 2013 e-mail.)
- Process weight rate:
 - 235.22 tons/hr ==> 2,167 tons/day ==> 65,000 tons/mon.
- Emission factors: (Based on AP-42, Emission Factors for Crushed Stone Processing Operations, 8/04, Table 11.19.2-2)
 - Conveying: (uncontrolled)
 - PM: 0.003 lb/ton
 - PM10: 0.0011 lb/ton
 - Crushing: (uncontrolled)
 - PM: 0.0054 lb/ton
 - PM10: 0.0024 lb/ton
 - Screening: (uncontrolled)
 - PM: 0.025 lb/ton
 - PM10: 0.0087 lb/ton
- Control efficiencies:
 - Dust collector - 99% (estimated)
 - Dry Fog System - 96% for PM/PM10 (Based on Dry Fog system used to control dust at a coal handling facility.)

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Emission calculations: (Process emissions, PM/PM10 only)
 The products produced, are as follows, based on Table C-1:
 Criteria Pollutant Emissions from Slag Crushing, Screening
 and Conveying. (July 12, 2013 e-mail attachment.)

<u>PRODUCT</u>	<u>% of PWR</u>	<u>Weight Rate (tons/hr)</u>
3/8" x 1" Ferrous	5.9	13.84
Minus 3/8" Ferrous	17.6	41.51
Minus 3/4" Non-Ferrous	47.1	110.69
3/4" x 1-1/2" Non-Ferrous	29.4	69.18
1-8" Ferrous (to Crusher)	---	41.51 (1)
TOTAL	100.0	235.22

(1) Recycled back to crusher, so not included in PWR.

Note: The emission calculations are based on 17.6% (41.51 tons/hr) of all material received is subsequently transferred to the crusher. Additionally, for worst case PTE considerations, no ferrous material (i.e. all material is transferred through non-ferrous screen and finally stacked in pile after non-ferrous screen) is considered to be produced.

R1: (hourly, with Dry Fog system)

<u>Equip. or trans. pt.</u>	<u>Process wt. rate (tons/hr)</u>	<u>Emission factor PM/PM10 (lb/ton)</u>	<u>Dry Fog Control Efficiency (%)</u>	<u>Emission rate PM/PM10 (lb/hr)</u>
Endloader to Rec'g Hopper	235.22	0.003/0.0011	96	0.0282/0.0103
Rec'g Hopper to Pan Feeder	235.22	0.003/0.0011	96	0.0282/0.0103
Pan Feeder to Main Conv.	235.22	0.003/0.0011	96	0.0282/0.0103
Screen/Ferrous (incl. mtl. trans. From Main and Closed Circuit Conv.)	276.73	0.025/0.0087	96	0.277/0.096
Screen to Cross Over Conv.	276.73	0.003/0.0011	96	0.0332/0.0122
Screen/Non-Ferrous (incl. mtl. trans. From Cross Over Conv.)	276.73	0.025/0.0087	96	0.277/0.096

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Screen to Non-Ferrous stacker	235.22	0.003/0.0011	96	0.0282/0.0103
Non-Ferrous stacker To Pile	235.22	0.003/0.0011	96	0.0282/0.0103
Screen/Non-Ferrous To crusher feed conv.	41.51	0.003/0.0011	96	0.0050/0.0018
Crusher (incl. mtl. Trans. from crusher Feed conveyor)	41.51	0.0054/0.0024	(1)	0.224/0.0996
Crusher to under Crusher conv.	41.51	0.003/0.0011	(1)	0.125/0.0457
Under crusher conv. To closed circuit conv.	41.51	0.003/0.0011	96	0.0050/0.0018
R1: (hourly, uncontrolled, PM/PM10)				1.087/0.405

(1) Considered uncontrolled, with dust collector control under R2 emissions.

(2) PM emission summary:

- 0.349 lb/hr vented to dust collector
- 0.738 lb/hr not vented to dust collector

(3) PM10 emission summary:

- 0.1453 lb/hr vented to dust collector
- 0.2597 lb/hr not vented to dust collector

R2: (hourly, controlled)

PM: $0.738 \text{ lb/hr} + (0.349 \text{ lb/hr})(1-0.99)$
 $= 0.738 \text{ lb/hr} + 0.00349 \text{ lb/hr}$
 $= 0.741 \text{ lb/hr}$

PM10: $0.2597 \text{ lb/hr} + (0.1453 \text{ lb/hr})(1-0.99)$
 $= 0.2597 \text{ lb/hr} + 0.001453 \text{ lb/hr}$
 $= 0.261 \text{ lb/hr}$

Daily: (hourly x 9.2 hrs/day)**UNCONTROLLED**

PM: 10.0 lbs/day
PM10: 3.7 lbs/day

CONTROLLED

PM: 6.8 lbs/day
PM10: 2.4 lbs/day

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Monthly average: (same as daily, rounded, based on 7 day/wk operation)

PM: 7 lbs/day

PM10: 2 lbs/day

Annual: (daily cont. x 30 days/mon. x 12 mon./yr days/yr)

PM: 2,448 lbs/yr ==> 1.22 tons/yr

PM10: 864 lbs/yr ==> 0.43 ton/yr

Rule 404 (particulate concentration)

Estimated emission:

$$(0.00349 \text{ lb/hr}) (7,000 \text{ gr/lb}) / (60 \text{ min/hr}) (6,500 \text{ scfm})$$

$$= 0.00018 \text{ gr/scf}$$

Allowed emission - 0.0930 gr/scf (6,500 scfm)

COMPLIESRule 405 (particulate weight rate)

Estimated emission - 0.741 lb/hr

Allowed emission - 24.6 lbs/hr (235.22 tons/hr ==> 470,440 lbs/hr)

COMPLIESIn-plant vehicles (endloaders) emissions:

Note: All in-plant vehicle emissions will be included in the NSR emission summary of this permit unit.

Given:

- Operating schedule: 9.2 hrs/day, 7 days/wk, 52 wks/yr
(Based on maximum hourly, daily and monthly PWR advised in July 12, 2013 e-mail.)
- Diesel fuel usage rate - 1,883 gals/mon.
==> 62.77 gals/day (30 days/mon.)
==> 6.82 gals/hr (9.2 hrs/day)
- Emission factors:
 - NOx: 354 lbs/1,000 gals.
(Based on EPA certification of Caterpillar engines used, and certified below the standard of 4.0 g/kw-hr for NMHC + NOx.)

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4.0 will be used as the conservative emission factor for NOx, as proposed by the consultant in the attachment to the May 23, 2013 application submittal package.

Conversion has been checked for accuracy.)

- Remaining factors: (Based on same above reference.)

HC: 28 lbs/1,000 gals.

SOx: 0.21 lb/1,000 gals.

CO: 310 lbs/1,000 gals.

PM/PM10: 18 lbs/1,000 gals.

Emission calculations:**R1 = R2:**

HC: 6.82 gals/hr x 28 lbs/1,000 gal. = 0.19 lb/hr

NOx: 6.82 gals/hr x 354 lbs/1,000 gal. = 2.41 lbs/hr

SOx: 6.82 gals/hr x 0.21 lb/1,000 gal. = 0.0014 lb/hr

CO: 6.82 gals/hr x 310 lbs/1,000 gal. = 2.11 lbs/hr

PM/PM10: 6.82 gals/hr x 18 lbs/1,000 gal. = 0.12 lb/hr

Total Permit Unit emissions:**R1: (hourly, uncontrolled)**

HC: 0.19 lb/hr

NOx: 2.41 lbs/hr

SOx: 0.0014 lb/hr

CO: 2.11 lbs/hr

PM: 0.12 lb/hr + 1.087 lbs/hr = 1.21 lbs/hr

PM10: 0.12 lb/hr + 0.405 lb/hr = 0.53 lb/hr

R2: (hourly, controlled)

HC: 0.19 lb/hr

NOx: 2.41 lbs/hr

SOx: 0.0014 lb/hr

CO: 2.11 lbs/hr

PM: 0.12 lb/hr + 0.741 lb/hr = 0.86 lb/hr

PM10: 0.12 lb/hr + 0.261 lb/hr = 0.38 lb/hr

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Daily: (hourly x 9.2 hrs/day)

UNCONTROLLED

HC: 1.7 lbs/day
NOx: 22.1 lbs/day
SOx: 0.013 lb/day
CO: 19.4 lbs/day
PM: 11.1 lbs/day
PM10: 4.9 lbs/day

CONTROLLED

HC: 1.7 lbs/day
NOx: 22.1 lbs/day
SOx: 0.013 lb/day
CO: 19.4 lbs/day
PM: 7.9 lbs/day
PM10: 3.5 lbs/day

Monthly average: (same as daily controlled, rounded, based on 7 day/wk operation)

HC: 2 lbs/day
NOx: 22 lbs/day
SOx: 0 lb/day
CO: 19 lbs/day
PM: 8 lbs/day
PM10: 4 lbs/day

Annual: (daily controlled x 30 day/mon x 12 mon/yr)

HC: 612 lbs/yr ==> 0.31 ton/yr
NOx: 7,956 lbs/yr ==> 3.98 tons/yr
SOx: 5 lbs/yr ==> 0.003 ton/yr
CO: 6,984 lbs/yr ==> 3.5 tons/yr
PM: 2,844 lbs/yr ==> 1.4 tons/yr
PM10: 1,260 lbs/yr ==> 0.63 ton/yr

Rule 1401 evaluation:

Given:

- PWR (PM emission rate) = 0.741 lbs/hr

Note: Toxic emissions are based on PM controlled emission rate, and 24 hr/day operation as worst case scenario. Process emissions only.

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- Rule 1401 toxics: (Based on March 30, 2011, July 27, 2012 and July 31, 2012 slag analysis reports.)

<u>Compound</u>	<u>% weight</u>	<u>lb/hr</u>
Arsenic	0.0004	0.0000030
Beryllium	0.0002	0.0000015
Cadmium	0.00005	0.00000037
Chromium (Hex.)	0.0000078	0.000000058
Copper	0.05	0.00037
Lead	0.004	0.000030
Manganese compounds	4.37	0.032
Mercury	0.000002	0.000000015
Nickel	0.014	0.00010
Phosphorus comp.	0.26	0.0019
Selenium	0.0001	0.00000074
Zinc	0.014	0.00010

Summary: (Reference: Attachment A, Tier 1/Tier 2 Risk assessment)

Tier 1 evaluation for Rule 1401 toxics failed screening analysis. Tier 2 evaluation passed MICR, and Acute and Chronic Hazard index analysis.

Therefore, **COMPLIANCE WITH RULE 1401 TOXIC EVALUATION IS ATTAINED.**

A/N 542856

- Filter ratio = 6,500 scfm/804 sq.ft. = 8.1 scfm/sq.ft.
This is an acceptable ratio for a pulse jet cleaning dust collector that has a very low grain loading rate. The indraft scfm is more than adequate to vent crusher.
- NSR emission entry will remain 0 lb/day for PM10, at the new location.

A/N 552382

Given:

- Operating schedule: 9.2 hrs/day, 7 days/wk, 52 wks/yr
(Based on maximum hourly, daily and monthly PWR advised in July 12, 2013 e-mail.)
- Process weight rate:
 - 235.22 tons/hr ==> 2,167 tons/day ==> 65,000 tons/mon.

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- Emission factors: (Based on AP-42, Emission Factors for Crushed Stone Processing Operations, 8/04, Table 11.19.2-2)
 - Conveying: (uncontrolled)
 - PM: 0.003 lb/ton
 - PM10: 0.0011 lb/ton
- Control efficiencies:
 - Dry Fog System - 96% for PM/PM10 (Based on Dry Fog system used to control dust at a coal handling facility.)

Emission calculations: (Process emissions, PM/PM10 only)

R1 = R2: (hourly, with Dry Fog system)

Equip. or trans. pt.	Process wt. rate (tons/hr)	Emission factor PM/PM10 (lb/ton)	Dry Fog Control Efficiency (%)	Emission rate PM/PM10 (lb/hr)
Endloader to Conv. Thru Rec'g Hopper	235.22	0.003/0.0011	96	0.0282/0.0103
Conv. to Trucks to Pan Feeder	235.22	0.003/0.0011	96	0.0282/0.0103

Total R1 = R2: 0.0564/0.0206

Daily: (hourly x 9.2 hrs/day)

PM: 0.52 lb/day
 PM10: 0.19 lb/day

Monthly average: (same as daily, rounded, based on 7 day/wk operation)

PM: 1 lb/day
 PM10: 0 lb/day

Annual: (daily x 365 days/yr)

PM: 190 lbs/yr ==> 0.1 ton/yr
 PM10: 69 lbs/yr ==> 0.03 ton/yr

Rule 405 (particulate weight rate)

Estimated emission - 0.0564 lb/hr

Allowed emission - 24.6 lbs/hr (235.22 tons/hr ==> 470,440 lbs/hr)
COMPLIES

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Rule 1401 evaluation:

Given:

- PWR (PM emission rate) = 0.0564 lbs/hr
 Note: Toxic emissions are based on PM controlled emission rate, and 24 hr/day operation as worst case scenario. Process emissions only.
- Rule 1401 toxics: (Based on March 30, 2011, July 27, 2012 and July 31, 2012 slag analysis reports.)

<u>Compound</u>	<u>% weight</u>	<u>lb/hr</u>
Arsenic	0.0004	0.00000023
Beryllium	0.0002	0.00000011
Cadmium	0.00005	0.000000028
Chromium (Hex.)	0.0000078	0.000000044
Copper	0.05	0.000028
Lead	0.004	0.0000023
Manganese compounds	4.37	0.0025
Mercury	0.000002	0.000000011
Nickel	0.014	0.0000079
Phosphorus comp.	0.26	0.00015
Selenium	0.0001	0.000000056
Zinc	0.014	0.0000079

Summary: (Reference: Attachment B, Tier 1/Tier 2 Risk assessment)

Tier 1 evaluation for Rule 1401 toxics failed screening analysis. Tier 2 evaluation passed MICR, and Acute and Chronic Hazard index analysis.

Therefore, **COMPLIANCE WITH RULE 1401 TOXIC EVALUATION IS ATTAINED.**

FACILITY EMISSION SUMMARY (30-day avg., lbs/day)

<u>A/N</u>	<u>HC</u>	<u>NOx</u>	<u>SOx</u>	<u>CO</u>	<u>PM</u>	<u>PM10</u>
542855	2	22	0	19	8	4
552382	0	0	0	0	1	0
Total	2	22	0	19	8	4

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RULES COMPLIANCE

Rule 212:

(c) (1) - This section requires a public notice for all new and modified permit units that emit air contaminants located within 1,000 feet from the outer boundary of a school.

No public notice is required since the nearest school from this equipment is approximately 1,400 feet from the outer boundary of a school. Therefore no public notice is required.

(c) (2) - This section requires a public notice for all new or modified facilities that have on-site emission increases exceeding any of the daily maximums as specified by Rule 212(g).

The proposed project will not result in any emission increase exceeding Rule 212(g) limits. Therefore, a Rule 212(c) (2) notice will not be required for this project.

(c) (3) - This section requires a public notice for all new or modified permit unit with increases in emissions of Rule 1401 resulting in MICR greater than 1E-6 per permit unit or greater than 10E-6 per facility.

The proposed project will not result in any emission increase of toxic emissions associated with the operation in excess of Rule 1401 requirements. Therefore Public Notice is not required under this section of the rule.

(g) - Project emissions are much less than threshold limits.

Therefore, no public notice is required.

Rule 401 - No visible emission is expected with proper operation of the equipment.

Rule 402 - No nuisance is expected with proper operation of the equipment.

Rule 403 - No excessive fugitive dust is expected with proper operation of the equipment.

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- Rule 404,5 - Compliance is expected based on the emission calculations for each permit unit.
- Rule 1155 - Monitoring and recordkeeping requirements will be specified for the baghouse.
- Reg. XIII - Current **BACT** is the use of material moisture during aggregate processing, and baghouse. As described in the Process Description of this report the proposed dry fog system is considered to be BACT equivalent or better for this service. Therefore, **current BACT is met.**
Offsets: Rule 1304(d) (1) (A) states that any new facility that has a PTE less than the amounts in Table A shall be exempt from Rule 1303(b) (2) (offsets). Since the facility emissions are less than the Table A limits for all criteria pollutants then **no offsets are required.**
Modeling: Rule 1303, Table A-1 provides allowable emission thresholds before modeling is required. Since the evaluated emissions for the stationary sources are less than the threshold limits, **modeling is not required.**
- Reg. XIV - **Compliance is attained** based on the Tier II toxic screening in Attachments A and B, and as described in the evaluation of each permit unit. Based on policy decision the endloader toxic emissions are not included in the toxic emission screening.
- Reg. XXX - This is a new facility subject to Title V requirements as described in the History portion of this report. The appropriate monitoring conditions will be included in the permit.

RECOMMENDATION

- A/N 542855 - Issue P/C as described in this report and the facility permit.
- A/N 542856 - Issue P/C as described in this report and the facility permit.
- A/N 551873 - Approve Initial Title V permit as described in the facility permit.
- A/N 552382 - Issue P/C as described in this report and the facility permit.

TIER 1 SCREENING RISK ASSESSMENT REPORT

Receptor Distance (actual)	328
Receptor Distance (for X/Q LOOKUP)	100

Tier 1 Results	
Cancer/Chronic ASI	Acute ASI
1.51E+01	1.32E-02
FAILED	PASSED

APPLICATION SCREENING INDEX CALCULATION

Compound	Average Annual Emission Rate	Max Hourly Emission Rate (lbs/hr)	Cancer / Chronic Pollutant Screening Level (lbs/yr)	Acute Pollutant Screening Level (lbs/hr)	Cancer / Chronic Pollutant Screening Index	Acute Pollutant Screening Index (PSI)
Arsenic and arsenic compounds (inorganic)	2.62E-02	3.00E-06	1.55E-02	5.35E-04	1.69E+00	5.60E-03
Beryllium (and beryllium compounds)	1.31E-02	1.50E-06	1.06E-01		1.23E-01	
Cadmium and cadmium compounds	3.23E-03	3.70E-07	5.95E-02		5.43E-02	
Chromium, hexavalent	5.07E-04	5.80E-08	1.75E-03		2.90E-01	
Copper and copper compounds	3.23E+00	3.70E-04		2.68E-01		1.38E-03
elemental lead), including but not limited to:	2.62E-01	3.00E-05	5.07E+00		5.17E-02	
Manganese and manganese compounds	2.80E+02	3.20E-02	2.33E+01		1.20E+01	
Mercury and mercury compounds (inorganic)	1.31E-04	1.50E-08	1.16E+00	1.61E-03	1.13E-04	9.32E-06
Nickel & nickel compounds (except nickel oxide):	8.74E-01	1.00E-04	9.81E-01	1.61E-02	8.91E-01	6.23E-03
Phosphorus and phosphorus compounds*	1.66E+01	1.90E-03				
hydrogen selenide	6.46E-03	7.40E-07	5.17E+03		1.25E-06	
Zinc and zinc compounds*	8.74E+00	1.00E-03				

TOTAL (APPLICATION SCREENING INDEX)

1.51E+01 1.32E-02

TIER 2 SCREENING RISK ASSESSMENT REPORT

A/N: 542855
Fac: Tervita LLC - ID# 172593

Application deemed complete date: 10/18/12

2. Tier 2 Data

MET Factor	0.58
4 hr	0.86
6 or 7 hrs	0.79

Dispersion Factors tables

5	For Chronic X/Q
7	For Acute X/Q

Dilution Factors (ug/m3)/(tons/yr)

Receptor	X/Q	X/Qmax
Residential	0.12	7.7
Commercial	0.8544	40.794

Adjustment and Intake Factors

	AFann	DBR	EVF
Residential	1	302	0.96
Worker	1	149	0.38

TIER 2 RESULTS

5a. MICR

$MICR = CP (mg/(kg \cdot day))^{-1} \cdot Q (ton/yr) \cdot (X/Q) \cdot AFann \cdot MET \cdot DBR \cdot EVF \cdot 1E-6 \cdot MP$

Compound	Residential	Commercial
Arsenic and arsenic compounds (inorganic)	1.52E-08	2.02E-08
Beryllium (and beryllium compounds)	1.11E-09	1.54E-09
Cadmium and cadmium compounds	4.89E-10	6.80E-10
Chromium, hexavalent	2.61E-09	3.63E-09
Copper and copper compounds		
Lead and lead compounds (inorganic, including elements)	4.66E-10	4.54E-10
Manganese and manganese compounds		
Mercury and mercury compounds (inorganic)		
Nickel & nickel compounds (except nickel oxide):	8.02E-09	1.12E-08
Phosphorus and phosphorus compounds*		
Selenium and selenium compounds, other than hydrogen		
Zinc and zinc compounds*		
Total	2.79E-08	3.76E-08
	PASS	PASS

No Cancer Burden, MICR < 1.0E-6

5b. Cancer Burden	NO
X/Q for one-in-a-million:	
Distance (meter)	
Area (km2):	
Population:	-
Cancer Burden:	

6. Hazard Index

HIA = [Q(lb/hr) * (X/Q)max] * AF / Acute REL

HIC = [Q(ton/yr) * (X/Q) * MET * MP] / Chronic REL

Target Organs	Acute	Chronic	Acute Pass/Fail	Chronic Pass/Fail
Alimentary system (liver) - AL		8.01E-08	Pass	Pass
Bones and teeth - BN			Pass	Pass
Cardiovascular system - CV	6.12E-04	1.64E-02	Pass	Pass
Developmental - DEV	6.13E-04	1.64E-02	Pass	Pass
Endocrine system - END			Pass	Pass
Eye			Pass	Pass
Hematopoietic system - HEM		4.33E-03	Pass	Pass
Immune system - IMM	6.80E-04	4.64E-04	Pass	Pass
Kidney - KID		4.95E-05	Pass	Pass
Nervous system - NS	6.13E-04	7.86E-01	Pass	Pass
Reproductive system - REP			Pass	Pass
Respiratory system - RES	8.31E-04	2.12E-02	Pass	Pass
Skin		1.64E-02	Pass	Pass

A/N: 542855

Application deemed complete date:

10/18/12

6a. Hazard Index Acute

$HIA = [Q(\text{lb/hr}) * (X/Q)\text{max}] * AF / \text{Acute REL}$

Compound	HIA - Residential									
	AL	CV	DEV	EYE	HEM	IMM	NS	REP	RESP	SKIN
Arsenic and arsenic compounds (inorganic)		1.16E-04	1.16E-04				1.16E-04			
Beryllium (and beryllium compounds)										
Cadmium and cadmium compounds										
Chromium, hexavalent										
Copper and copper compounds									2.85E-05	
Lead and lead compounds (inorganic, including elements)										
Manganese and manganese compounds										
Mercury and mercury compounds (inorganic)			1.93E-07				1.93E-07			
Nickel & nickel compounds (except nickel oxide):						1.28E-04			1.28E-04	
Phosphorus and phosphorus compounds*										
Selenium and selenium compounds, other than hydrogen										
Zinc and zinc compounds*										
Total		1.16E-04	1.16E-04			1.28E-04	1.16E-04		1.57E-04	

HIA - Commercial										
Compound	AL	CV	DEV	EYE	HEM	IMM	NS	REP	RESP	SKIN
Arsenic and arsenic compounds (inorganic)		6.12E-04	6.12E-04				6.12E-04			
Beryllium (and beryllium compounds)										
Cadmium and cadmium compounds										
Chromium, hexavalent										
Copper and copper compounds									1.51E-04	
Lead and lead compounds (inorganic, including elements)										
Manganese and manganese compounds										
Mercury and mercury compounds (inorganic)			1.02E-06				1.02E-06			
Nickel & nickel compounds (except nickel oxide):						6.80E-04			6.80E-04	
Phosphorus and phosphorus compounds*										
Selenium and selenium compounds, other than hydrogen										
Zinc and zinc compounds*										
Total		6.12E-04	6.13E-04			6.80E-04	6.13E-04		8.31E-04	

6b. Hazard Index Chronic

$$HIC = [Q(\text{ton/yr}) * (X/Q) * MET * MP] / \text{Chronic REL}$$

Compound	HIC - Residential												
	AL	BN	CV	DEV	END	EYE	HEM	IMM	KID	NS	REP	RESP	SKIN
Arsenic and arsenic compounds (inorganic)			2.44E-03	2.44E-03				6.51E-05		2.44E-03		2.44E-03	#####
Beryllium (and beryllium compounds)												6.51E-05	
Cadmium and cadmium compounds									8.42E-06			8.42E-06	
Chromium, hexavalent												8.82E-08	
Copper and copper compounds													
Lead and lead compounds (inorganic, including elements)													
Manganese and manganese compounds										1.08E-01			
Mercury and mercury compounds (inorganic)				1.01E-06					1.01E-06	1.01E-06			
Nickel & nickel compounds (except nickel oxide):							6.08E-04					6.08E-04	
Phosphorus and phosphorus compounds*													
Selenium and selenium compounds, other than hydrogen	1.12E-08		1.12E-08							1.12E-08			
Zinc and zinc compounds*													
Total	1.12E-08		2.44E-03	2.44E-03			6.08E-04	6.51E-05	9.44E-06	1.11E-01		3.12E-03	#####

6b. Hazard Index Chronic (cont.)

HIC - Commercial													
Compound	AL	BN	CV	DEV	END	EYE	HEM	IMM	KID	NS	REP	RESP	SKIN
Arsenic and arsenic compounds (inorganic)			1.64E-02	1.64E-02						1.64E-02		1.64E-02	#####
Beryllium (and beryllium compounds)								4.64E-04				4.64E-04	
Cadmium and cadmium compounds									4.49E-05			4.49E-05	
Chromium, hexavalent												6.28E-07	
Copper and copper compounds													
Lead and lead compounds (inorganic, including elements)													
Manganese and manganese compounds										7.70E-01			
Mercury and mercury compounds (inorganic)				4.59E-06					4.59E-06	4.59E-06			
Nickel & nickel compounds (except nickel oxide):							4.33E-03					4.33E-03	
Phosphorus and phosphorus compounds*													
Selenium and selenium compounds, other than hydrogen	8.01E-08		8.01E-08							8.01E-08			
Zinc and zinc compounds*													
Total	8.01E-08		1.64E-02	1.64E-02			4.33E-03	4.64E-04	4.95E-05	7.86E-01		2.12E-02	#####

TIER 1 SCREENING RISK ASSESSMENT REPORT

Receptor Distance (actual)	328
Receptor Distance (for X/Q LOOKUP)	100

Tier 1 Results	
Cancer/Chronic ASI	Acute ASI
1.18E+00	1.03E-03
FAILED	PASSED

APPLICATION SCREENING INDEX CALCULATION

Compound	Average Annual Emission Rate	Max Hourly Emission Rate (lbs/hr)	Cancer / Chronic Pollutant Screening Level (lbs/yr)	Acute Pollutant Screening Level (lbs/hr)	Cancer / Chronic Pollutant Screening Index	Acute Pollutant Screening Index (PSI)
Arsenic and arsenic compounds (inorganic)	2.01E-03	2.30E-07	1.55E-02	5.35E-04	1.29E-01	4.30E-04
Beryllium (and beryllium compounds)	9.61E-04	1.10E-07	1.06E-01		9.05E-03	
Cadmium and cadmium compounds	2.45E-04	2.80E-08	5.95E-02		4.11E-03	
Chromium, hexavalent	3.84E-05	4.40E-09	1.75E-03		2.20E-02	
Copper and copper compounds	2.45E-01	2.80E-05		2.68E-01		1.05E-04
Lead and lead compounds (inorganic, including elemental lead), including but not limited to:	2.01E-02	2.30E-06	5.07E+00		3.97E-03	
Manganese and manganese compounds	2.18E+01	2.50E-03	2.33E+01		9.37E-01	
Mercury and mercury compounds (inorganic)	9.61E-06	1.10E-09	1.16E+00	1.61E-03	8.28E-06	6.83E-07
Nickel & nickel compounds (except nickel oxide):	6.90E-02	7.90E-06	9.81E-01	1.61E-02	7.04E-02	4.92E-04
Phosphorus and phosphorus compounds*	1.31E+00	1.50E-04				
Selenium and selenium compounds, other than hydrogen selenide	4.89E-04	5.60E-08	5.17E+03		9.47E-08	
Zinc and zinc compounds*	6.90E-02	7.90E-06				
TOTAL (APPLICATION SCREENING INDEX)					1.18E+00	1.03E-03

TIER 2 SCREENING RISK ASSESSMENT REPORT

A/N: 552382
Fac: Tervita LLC - ID# 172593

Application deemed complete date: 07/11/13

2. Tier 2 Data

MET Factor	0.58
4 hr	0.86
6 or 7 hrs	0.79

Dispersion Factors tables

5	For Chronic X/Q
7	For Acute X/Q

Dilution Factors (ug/m3)/(tons/yr)

Receptor	X/Q	X/Qmax
Residential	0.12	7.7
Commercial	0.8544	40.794

Adjustment and Intake Factors

	AFann	DBR	EVF
Residential	1	302	0.96
Worker	1	149	0.38

TIER 2 RESULTS

5a. MICR

MICR = CP (mg/(kg-day))⁻¹ * Q (ton/yr) * (X/Q) * AFann * MET * DBR * EVF * 1E-6* MP

Compound	Residential	Commercial
Arsenic and arsenic compounds (inorganic)	1.16E-09	1.55E-09
Beryllium (and beryllium compounds)	8.14E-11	1.13E-10
Cadmium and cadmium compounds	3.70E-11	5.15E-11
Chromium, hexavalent	1.98E-10	2.75E-10
Copper and copper compounds		
Lead and lead compounds (inorganic, including elements)	3.57E-11	3.48E-11
Manganese and manganese compounds		
Mercury and mercury compounds (inorganic)		
Nickel & nickel compounds (except nickel oxide):	6.34E-10	8.81E-10
Phosphorus and phosphorus compounds*		
Selenium and selenium compounds, other than hydrogen		
Zinc and zinc compounds*		
Total	2.15E-09	2.90E-09
	PASS	PASS

No Cancer Burden, MICR<1.0E-6

5b. Cancer Burden	NO
X/Q for one-in-a-million:	
Distance (meter)	
Area (km2):	
Population:	-
Cancer Burden:	

6. Hazard Index

HIA = [Q(lb/hr) * (X/Q)max] * AF / Acute REL

HIC = [Q(ton/yr) * (X/Q) * MET * MP] / Chronic REL

Target Organs	Acute	Chronic	Acute Pass/Fail	Chronic Pass/Fail
Alimentary system (liver) - AL		6.06E-09	Pass	Pass
Bones and teeth - BN			Pass	Pass
Cardiovascular system - CV	4.69E-05	1.26E-03	Pass	Pass
Developmental - DEV	4.70E-05	1.26E-03	Pass	Pass
Endocrine system - END			Pass	Pass
Eye			Pass	Pass
Hematopoietic system - HEM		3.42E-04	Pass	Pass
Immune system - IMM	5.37E-05	3.40E-05	Pass	Pass
Kidney - KID		3.73E-06	Pass	Pass
Nervous system - NS	4.70E-05	6.14E-02	Pass	Pass
Reproductive system - REP			Pass	Pass
Respiratory system - RES	6.51E-05	1.64E-03	Pass	Pass
Skin		1.26E-03	Pass	Pass

6a. Hazard Index Acute

$HIA = [Q(\text{lb/hr}) * (X/Q)_{\text{max}}] * AF / \text{Acute REL}$

Compound	HIA - Residential									
	AL	CV	DEV	EYE	HEM	IMM	NS	REP	RESP	SKIN
Arsenic and arsenic compounds (inorganic)		8.86E-06	8.86E-06				8.86E-06			
Beryllium (and beryllium compounds)										
Cadmium and cadmium compounds										
Chromium, hexavalent										
Copper and copper compounds									2.16E-06	
Lead and lead compounds (inorganic, including elements)										
Manganese and manganese compounds										
Mercury and mercury compounds (inorganic)			1.41E-08				1.41E-08			
Nickel & nickel compounds (except nickel oxide):						1.01E-05			1.01E-05	
Phosphorus and phosphorus compounds*										
Selenium and selenium compounds, other than hydrogen										
Zinc and zinc compounds*										
Total		8.86E-06	8.87E-06			1.01E-05	8.87E-06		1.23E-05	

HIA - Commercial										
Compound	AL	CV	DEV	EYE	HEM	IMM	NS	REP	RESP	SKIN
Arsenic and arsenic compounds (inorganic)		4.69E-05	4.69E-05				4.69E-05			
Beryllium (and beryllium compounds)										
Cadmium and cadmium compounds										
Chromium, hexavalent										
Copper and copper compounds									1.14E-05	
Lead and lead compounds (inorganic, including elements)										
Manganese and manganese compounds										
Mercury and mercury compounds (inorganic)			7.48E-08				7.48E-08			
Nickel & nickel compounds (except nickel oxide):						5.37E-05			5.37E-05	
Phosphorus and phosphorus compounds*										
Selenium and selenium compounds, other than hydrogen										
Zinc and zinc compounds*										
Total		4.69E-05	4.70E-05			5.37E-05	4.70E-05		6.51E-05	

6b. Hazard Index Chronic

$$HIC = (Q(\text{ton/yr}) * (X/Q) * MET * MP) / \text{Chronic REL}$$

Compound	HIC - Residential												
	AL	BN	CV	DEV	END	EYE	HEM	IMM	KID	NS	REP	RESP	SKIN
Arsenic and arsenic compounds (inorganic)			1.87E-04	1.87E-04						1.87E-04		1.87E-04	#####
Beryllium (and beryllium compounds)								4.78E-06				4.78E-06	
Cadmium and cadmium compounds									6.38E-07			6.38E-07	
Chromium, hexavalent												6.69E-09	
Copper and copper compounds													
Lead and lead compounds (inorganic, including elements)													
Manganese and manganese compounds										8.44E-03			
Mercury and mercury compounds (inorganic)				7.42E-08					7.42E-08	7.42E-08			
Nickel & nickel compounds (except nickel oxide):							4.80E-05					4.80E-05	
Phosphorus and phosphorus compounds*													
Selenium and selenium compounds, other than hydrogen	8.51E-10		8.51E-10							8.51E-10			
Zinc and zinc compounds*													
Total	8.51E-10		1.87E-04	1.87E-04			4.80E-05	4.78E-06	7.12E-07	8.63E-03		2.40E-04	#####

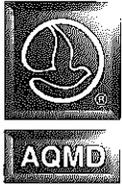
6b. Hazard Index Chronic (cont.)

A/N: 552300

Application deemed complete date:

07/11/13

Compound	HIC - Commercial											RESP	SKIN	
	AL	BN	CV	DEV	END	EYE	HEM	IMM	KID	NS	REP			
Arsenic and arsenic compounds (inorganic)			1.26E-03	1.26E-03								1.26E-03	1.26E-03	#####
Beryllium (and beryllium compounds)								3.40E-05					3.40E-05	
Cadmium and cadmium compounds										3.40E-06			3.40E-06	
Chromium, hexavalent													4.76E-08	
Copper and copper compounds														
Lead and lead compounds (inorganic, including elements)														
Manganese and manganese compounds												6.01E-02		
Mercury and mercury compounds (inorganic)				3.37E-07						3.37E-07		3.37E-07		
Nickel & nickel compounds (except nickel oxide):								3.42E-04					3.42E-04	
Phosphorus and phosphorus compounds*														
Selenium and selenium compounds, other than hydrogen	6.06E-09		6.06E-09									6.06E-09		
Zinc and zinc compounds*														
Total	6.06E-09		1.26E-03	1.26E-03				3.42E-04	3.40E-05	3.73E-06		6.14E-02	1.64E-03	#####



South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

NOTICE OF PROPOSED INITIAL TITLE V PERMIT

The South Coast Air Quality Management District (SCAQMD) is proposing to issue an initial Title V permit to the following new facility:

Tervita LLC

12459-B Arrow Route
Rancho Cucamonga, CA 91739
Facility ID# 172593

Contact Person:

Frank Darr
Project Superintendent
12459-B Arrow Route
Rancho Cucamonga, CA 91739

This is a new facility applying for an initial Title V permit that produces aggregate material from the slag produced at a collocated facility, Tamco, which is also a Title V facility. This facility will have a crusher, screens, conveyors and hoppers with associated dust collector and dry fog system to control particulate emissions.

Pursuant to Title V of the federal Clean Air Act and SCAQMD Rule 3004(f), a Title V permit shall expire five years from the date of issuance unless such permit has been renewed.

Accordingly, the above facility has submitted an initial Title V permit application and requested the SCAQMD to issue their initial Title V permit. The proposed permit incorporates the facility information provided in the facility's initial Title V permit application and all rules and regulations that will be applicable to the facility. The proposed permit is available for public review at SCAQMD, 21865 Copley Drive, Diamond Bar, CA 91765, and at the Paul A. Biane Library, 12505 Cultural Center Drive, Rancho Cucamonga, CA 91739.

Information regarding the facility owner's compliance history submitted to the SCAQMD pursuant to California Health & Safety Code Section 42336, or otherwise known to the SCAQMD based on credible information, is also available from the SCAQMD for public review. For more information or to review additional supporting documents, call the SCAQMD's Title V hotline at (909) 396-3013. Written comments should be submitted to:

South Coast Air Quality Management District
Chemical, Mechanical, and Ports Permitting Team
21865 Copley Drive
Diamond Bar, CA 91765
Attention: Richard H. Hawrylew

Comments must be received by November 18, 2013. The SCAQMD will consider all public comments and may revise the Title V permit in accordance with SCAQMD Rules and Regulations.

The public may request SCAQMD to conduct a public hearing on the proposed permit by submitting a Hearing Request Form (Form 500-G) to Richard H. Hawrylew at the above SCAQMD address. The SCAQMD will hold a public hearing if there is evidence that the proposed permit is not correct or is not adequate to ensure compliance with regulatory requirements, and a hearing will likely provide additional information that will affect the drafting and/or issuance of the permit. A public hearing request form and the public hearing schedule may be obtained from the SCAQMD by calling the Title V hotline at (909) 396-3013, or from the internet at <http://www.aqmd.gov/titlev>. The request for a public hearing is due by October 30, 2013. A copy of the hearing request must also be sent by first class mail to the appropriate facility contact person listed above.