

## Texas Commission on Environmental Quality

### Standard Permit New Registration

#### Site Information (Regulated Entity)

|                                                                         |                                                             |
|-------------------------------------------------------------------------|-------------------------------------------------------------|
| What is the name of the site to be authorized?                          | S JOLANDER RANCH                                            |
| Does the site have a physical address?                                  | No                                                          |
| Because there is no physical address, describe how to locate this site: | Located off of Co Rd 421 1.74 miles west of Whitsett, Texas |
| City                                                                    | Whitsett                                                    |
| State                                                                   | TX                                                          |
| ZIP                                                                     | 78075                                                       |
| County                                                                  | LIVE OAK                                                    |
| Latitude (N) (##.#####)                                                 | 28.624099                                                   |
| Longitude (W) (-###.#####)                                              | -98.31008                                                   |
| Primary SIC Code                                                        | 1442                                                        |
| Secondary SIC Code                                                      |                                                             |
| Primary NAICS Code                                                      | 212321                                                      |
| Secondary NAICS Code                                                    |                                                             |

#### Regulated Entity Site Information

|                                                |                   |
|------------------------------------------------|-------------------|
| What is the Regulated Entity's Number (RN)?    | RN112281167       |
| What is the name of the Regulated Entity (RE)? | RAIDER AGGREGATES |
| Does the RE site have a physical address?      | Yes               |

#### Physical Address

|                                              |                 |
|----------------------------------------------|-----------------|
| Number and Street                            | 1221 HIGHWAY 72 |
| City                                         | THREE RIVERS    |
| State                                        | TX              |
| ZIP                                          | 78071           |
| County                                       | LIVE OAK        |
| Latitude (N) (##.#####)                      |                 |
| Longitude (W) (-###.#####)                   |                 |
| Facility NAICS Code                          | 212321          |
| What is the primary business of this entity? |                 |

#### Customer (Applicant) Information

|                                                  |                                             |
|--------------------------------------------------|---------------------------------------------|
| How is this applicant associated with this site? | Owner                                       |
| What is the applicant's Customer Number (CN)?    | CN606402345                                 |
| Type of Customer                                 | Corporation                                 |
| <b>Full legal name of the applicant:</b>         |                                             |
| Legal Name                                       | Raider Aggregates Limited Liability Company |
| Texas SOS Filing Number                          | 806016326                                   |
| Federal Tax ID                                   |                                             |
| State Franchise Tax ID                           | 32099991542                                 |
| State Sales Tax ID                               |                                             |
| Local Tax ID                                     |                                             |
| DUNS Number                                      |                                             |

|                                                                                                                                                |                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| Number of Employees                                                                                                                            | 0-20                                        |
| Independently Owned and Operated?                                                                                                              | Yes                                         |
| I certify that the full legal name of the entity applying for this permit has been provided and is legally authorized to do business in Texas. | Yes                                         |
| <b>Responsible Authority Contact</b>                                                                                                           |                                             |
| Organization Name                                                                                                                              | Raider Aggregates Limited Liability Company |
| Prefix                                                                                                                                         | MR                                          |
| First                                                                                                                                          | Matthew                                     |
| Middle                                                                                                                                         |                                             |
| Last                                                                                                                                           | Muniz                                       |
| Suffix                                                                                                                                         |                                             |
| Credentials                                                                                                                                    |                                             |
| Title                                                                                                                                          | Owner                                       |
| <b>Responsible Authority Mailing Address</b>                                                                                                   |                                             |
| Enter new address or copy one from list:                                                                                                       |                                             |
| Address Type                                                                                                                                   | Domestic                                    |
| Mailing Address (include Suite or Bldg. here, if applicable)                                                                                   | 1221 HIGHWAY 72                             |
| Routing (such as Mail Code, Dept., or Attn:)                                                                                                   |                                             |
| City                                                                                                                                           | THREE RIVERS                                |
| State                                                                                                                                          | TX                                          |
| ZIP                                                                                                                                            | 78071                                       |
| Phone (###-###-####)                                                                                                                           | 3614496979                                  |
| Extension                                                                                                                                      |                                             |
| Alternate Phone (###-###-####)                                                                                                                 |                                             |
| Fax (###-###-####)                                                                                                                             |                                             |
| E-mail                                                                                                                                         | 90transportation@gmail.com                  |

## Responsible Official Contact

### Person TCEQ should contact for questions about this application:

|                                                              |                                                          |
|--------------------------------------------------------------|----------------------------------------------------------|
| Same as another contact?                                     | CN606402345, Raider Aggregates Limited Liability Company |
| Organization Name                                            | Raider Aggregates Limited Liability Company              |
| Prefix                                                       | MR                                                       |
| First                                                        | Matthew                                                  |
| Middle                                                       |                                                          |
| Last                                                         | Muniz                                                    |
| Suffix                                                       |                                                          |
| Credentials                                                  |                                                          |
| Title                                                        | Owner                                                    |
| Enter new address or copy one from list:                     |                                                          |
| <b>Mailing Address</b>                                       |                                                          |
| Address Type                                                 | Domestic                                                 |
| Mailing Address (include Suite or Bldg. here, if applicable) | 1221 HIGHWAY 72                                          |
| Routing (such as Mail Code, Dept., or Attn:)                 |                                                          |
| City                                                         | THREE RIVERS                                             |
| State                                                        | TX                                                       |
| ZIP                                                          | 78071                                                    |

|                                |                            |
|--------------------------------|----------------------------|
| Phone (###-###-####)           | 3614496979                 |
| Extension                      |                            |
| Alternate Phone (###-###-####) |                            |
| Fax (###-###-####)             |                            |
| E-mail                         | 90transportation@gmail.com |

## Technical Contact

### Person TCEQ should contact for questions about this application:

Same as another contact?

|                   |                          |
|-------------------|--------------------------|
| Organization Name | Alpha Terra Engineering  |
| Prefix            | MR                       |
| First             | Harold                   |
| Middle            | E                        |
| Last              | von Dran                 |
| Suffix            | JR                       |
| Credentials       | PE                       |
| Title             | President/Chief Engineer |

Enter new address or copy one from list:

### Mailing Address

|                                                              |                        |
|--------------------------------------------------------------|------------------------|
| Address Type                                                 | Domestic               |
| Mailing Address (include Suite or Bldg. here, if applicable) | 8626 TESORO DR STE 810 |
| Routing (such as Mail Code, Dept., or Attn:)                 |                        |
| City                                                         | SAN ANTONIO            |
| State                                                        | TX                     |
| ZIP                                                          | 78217                  |
| Phone (###-###-####)                                         | 2103266991             |
| Extension                                                    |                        |
| Alternate Phone (###-###-####)                               |                        |
| Fax (###-###-####)                                           |                        |
| E-mail                                                       | evondran@atei97.com    |

## Standard Permit General Information- New Reg Sites

|                                                                                    |                                      |
|------------------------------------------------------------------------------------|--------------------------------------|
| 1) Is this facility permanent or temporary?                                        | Permanent                            |
| 2) Will the proposed facility meet all of the requirements of the standard permit? | Yes                                  |
| 3) Select the type of unit that is being registered:                               | PERMANENT ROCK AND CONCRETE CRUSHERS |
| 3.1) Select the rule associated to the unit specified.                             | 6013                                 |

## Standard Permit Attachments

Please attach all required documents including PI-1S, Table 17, Process Description, Process Flow Diagram, Standard Permit Checklist, Rock Crusher Checklist, and the Site Map.

[File Properties]

|              |                                                                  |
|--------------|------------------------------------------------------------------|
| File Name    | Raider Air Permit Package 10.6.25.pdf                            |
| Hash         | C3EFDC6E6784393BA1C151BE79E8A2F7B360544808641910273B80C1EC23D6E6 |
| MIME-Type    | application/pdf                                                  |
| Confidential | No                                                               |

Please attach any other necessary information needed to complete the registration.

## Expedite

Per Texas Health and Safety Code, Section 382.05155, does the applicant want to expedite the processing of this application? No

## Certification

The electronic signature below indicates that the Responsible Official has knowledge of the facts herein set forth and that the same are true, accurate, and complete to the best of my knowledge and belief. By this signature, the maximum emission rates listed on this certification reflect the maximum anticipated emissions due to the operation of this facility and all representations in this certification of emissions are conditions upon which the facilities and sources will operate. It is understood that it is unlawful to vary from these representations unless the certification is first revised. The signature certifies that to the best of the Responsible Officials knowledge and belief, the project will satisfy the conditions and limitations of the indicated exemption or permit by rule and the facility will operate in compliance with all regulations of the Texas Commission on Environmental Quality and with Federal U.S. Environmental Protection Agency regulations governing air pollution. The signature below certifies that, based on information and belief formed after reasonable inquiry, the statements and information above and contained in the attached document(s) are true, accurate, and complete. If you questions on how to fill out this form or about air quality permits. Please call (512) 239-1250. Individuals are entitled to request and review their personal information that the agency gathers on its forms.

1. I am Ed Vondran, the owner of the STEERS account ER031280.
2. I have the authority to sign this data on behalf of the applicant named above.
3. I have personally examined the foregoing and am familiar with its content and the content of any attachments, and based upon my personal knowledge and/or inquiry of any individual responsible for information contained herein, that this information is true, accurate, and complete.
4. I further certify that I have not violated any term in my TCEQ STEERS participation agreement and that I have no reason to believe that the confidentiality or use of my password has been compromised at any time.
5. I understand that use of my password constitutes an electronic signature legally equivalent to my written signature.
6. I also understand that the attestations of fact contained herein pertain to the implementation, oversight and enforcement of a state and/or federal environmental program and must be true and complete to the best of my knowledge.
7. I am aware that criminal penalties may be imposed for statements or omissions that I know or have reason to believe are untrue or misleading.
8. I am knowingly and intentionally signing Standard Permit New Registration.
9. My signature indicates that I am in agreement with the information on this form, and authorize its submittal to the TCEQ.

OWNER Signature: Ed Vondran OWNER

|                                      |                                                                  |
|--------------------------------------|------------------------------------------------------------------|
| Customer Number:                     | CN606402345                                                      |
| Legal Name:                          | Raider Aggregates Limited Liability Company                      |
| Account Number:                      | ER031280                                                         |
| Signature IP Address:                | 108.80.68.185                                                    |
| Signature Date:                      | 2025-10-06                                                       |
| Signature Hash:                      | 16A64252F5E3FA6ADF5CD04AC99559DA5D34F3183FC0F0ED6E6819C53A99ADE9 |
| Form Hash Code at time of Signature: | 66B4A57CDFF026F3F45D6C80B34CF6F9C54C14CA8CEDA63FC826176F923E0499 |

## Fee Payment

|                             |                                                                           |
|-----------------------------|---------------------------------------------------------------------------|
| Transaction by:             | The application fee payment transaction was made by ER031280/Ed Vondran   |
| Paid by:                    | The application fee was paid by HAROLD E VONDRAN                          |
| Fee Amount:                 | \$900.00                                                                  |
| Paid Date:                  | The application fee was paid on 2025-10-06                                |
| Transaction/Voucher number: | The transaction number is 582EA000687920 and the voucher number is 786527 |



## Submission

|                      |                                                             |
|----------------------|-------------------------------------------------------------|
| Reference Number:    | The application reference number is 822185                  |
| Submitted by:        | The application was submitted by ER031280/Ed Vondran        |
| Submitted Timestamp: | The application was submitted on 2025-10-06 at 16:19:29 CDT |
| Submitted From:      | The application was submitted from IP address 108.80.68.185 |
| Confirmation Number: | The confirmation number is 683186                           |
| Steers Version:      | The STEERS version is 6.93                                  |

## Additional Information

Application Creator: This account was created by Matthew E Wilmot



# TCEQ Core Data Form

For detailed instructions on completing this form, please read the Core Data Form Instructions or call 512-239-5175.

## SECTION I: General Information

|                                                                                                                                                  |                                                                                       |                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------|
| <b>1. Reason for Submission</b> (If other is checked please describe in space provided.)                                                         |                                                                                       |                                                         |
| <input checked="" type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.) |                                                                                       |                                                         |
| <input type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)                                                      |                                                                                       | <input type="checkbox"/> Other                          |
| <b>2. Customer Reference Number</b> (if issued)                                                                                                  | <a href="#">Follow this link to search for CN or RN numbers in Central Registry**</a> | <b>3. Regulated Entity Reference Number</b> (if issued) |
| CN 606402345                                                                                                                                     |                                                                                       | RN 112281167                                            |

## SECTION II: Customer Information

|                                                                                                                                                                                                                                                                                                                |  |                                                                        |  |                                                          |                                                                                |                                           |       |         |      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------|--|----------------------------------------------------------|--------------------------------------------------------------------------------|-------------------------------------------|-------|---------|------|
| <b>4. General Customer Information</b>                                                                                                                                                                                                                                                                         |  | <b>5. Effective Date for Customer Information Updates</b> (mm/dd/yyyy) |  | 10/6/2025                                                |                                                                                |                                           |       |         |      |
| <input checked="" type="checkbox"/> New Customer <input type="checkbox"/> Update to Customer Information <input type="checkbox"/> Change in Regulated Entity Ownership<br><input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts) |  |                                                                        |  |                                                          |                                                                                |                                           |       |         |      |
| <b>The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).</b>                                                                                                                |  |                                                                        |  |                                                          |                                                                                |                                           |       |         |      |
| <b>6. Customer Legal Name</b> (If an individual, print last name first: eg: Doe, John)                                                                                                                                                                                                                         |  |                                                                        |  | <i>If new Customer, enter previous Customer below:</i>   |                                                                                |                                           |       |         |      |
| Raider Aggregates LLC.                                                                                                                                                                                                                                                                                         |  |                                                                        |  |                                                          |                                                                                |                                           |       |         |      |
| <b>7. TX SOS/CPA Filing Number</b>                                                                                                                                                                                                                                                                             |  | <b>8. TX State Tax ID</b> (11 digits)                                  |  | <b>9. Federal Tax ID</b><br>(9 digits)                   | <b>10. DUNS Number</b> (if applicable)                                         |                                           |       |         |      |
| 806016326                                                                                                                                                                                                                                                                                                      |  | 32099991542                                                            |  | 320999915                                                |                                                                                |                                           |       |         |      |
| <b>11. Type of Customer:</b>                                                                                                                                                                                                                                                                                   |  | <input checked="" type="checkbox"/> Corporation                        |  | <input type="checkbox"/> Individual                      | Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited |                                           |       |         |      |
| Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> Local <input type="checkbox"/> State <input type="checkbox"/> Other                                                                                                        |  | <input type="checkbox"/> Sole Proprietorship                           |  | <input type="checkbox"/> Other:                          |                                                                                |                                           |       |         |      |
| <b>12. Number of Employees</b>                                                                                                                                                                                                                                                                                 |  |                                                                        |  | <b>13. Independently Owned and Operated?</b>             |                                                                                |                                           |       |         |      |
| <input checked="" type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher                                                                                                                             |  |                                                                        |  | <input type="checkbox"/> Yes <input type="checkbox"/> No |                                                                                |                                           |       |         |      |
| <b>14. Customer Role</b> (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following                                                                                                                                                                   |  |                                                                        |  |                                                          |                                                                                |                                           |       |         |      |
| <input checked="" type="checkbox"/> Owner <input type="checkbox"/> Operator <input type="checkbox"/> Owner & Operator <input type="checkbox"/> Other:<br><input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> VCP/BSA Applicant                  |  |                                                                        |  |                                                          |                                                                                |                                           |       |         |      |
| <b>15. Mailing Address:</b>                                                                                                                                                                                                                                                                                    |  | 1221 Highway 72                                                        |  |                                                          |                                                                                |                                           |       |         |      |
|                                                                                                                                                                                                                                                                                                                |  |                                                                        |  |                                                          |                                                                                |                                           |       |         |      |
| City                                                                                                                                                                                                                                                                                                           |  | Three Rivers                                                           |  | State                                                    | TX                                                                             | ZIP                                       | 78071 | ZIP + 4 | 2609 |
| <b>16. Country Mailing Information</b> (if outside USA)                                                                                                                                                                                                                                                        |  |                                                                        |  |                                                          |                                                                                | <b>17. E-Mail Address</b> (if applicable) |       |         |      |
|                                                                                                                                                                                                                                                                                                                |  |                                                                        |  |                                                          |                                                                                |                                           |       |         |      |

|                             |                              |                                       |
|-----------------------------|------------------------------|---------------------------------------|
| <b>18. Telephone Number</b> | <b>19. Extension or Code</b> | <b>20. Fax Number (if applicable)</b> |
| ( 361 ) 449-6979            |                              | (   ) -                               |

## SECTION III: Regulated Entity Information

|                                                                                                                                                                                   |      |  |       |  |     |  |         |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--|-------|--|-----|--|---------|--|
| <b>21. General Regulated Entity Information</b> (If 'New Regulated Entity' is selected, a new permit application is also required.)                                               |      |  |       |  |     |  |         |  |
| <input checked="" type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input type="checkbox"/> Update to Regulated Entity Information |      |  |       |  |     |  |         |  |
| <i>The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).</i>                 |      |  |       |  |     |  |         |  |
| <b>22. Regulated Entity Name</b> (Enter name of the site where the regulated action is taking place.)                                                                             |      |  |       |  |     |  |         |  |
| S Jolander Ranch                                                                                                                                                                  |      |  |       |  |     |  |         |  |
| <b>23. Street Address of the Regulated Entity:</b><br><br>(No PO Boxes)                                                                                                           |      |  |       |  |     |  |         |  |
|                                                                                                                                                                                   |      |  |       |  |     |  |         |  |
|                                                                                                                                                                                   | City |  | State |  | ZIP |  | ZIP + 4 |  |
| <b>24. County</b>                                                                                                                                                                 |      |  |       |  |     |  |         |  |

If no Street Address is provided, fields 25-28 are required.

|                                                                                                                                                                                                                            |                                                                                                                                                           |              |                                                  |         |                                                    |                         |            |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------------------------------------|---------|----------------------------------------------------|-------------------------|------------|--|
| <b>25. Description to Physical Location:</b>                                                                                                                                                                               | US 281 S, Turn west at whitsett Take CR 421 SSW 2.2 mi, RT 0.55 mi on Caliche Rd, LT for 0.67 mi, RT for 0.48 mi. Enter through ranch gate Whitsett 78075 |              |                                                  |         |                                                    |                         |            |  |
| <b>26. Nearest City</b>                                                                                                                                                                                                    |                                                                                                                                                           |              |                                                  |         | <b>State</b>                                       | <b>Nearest ZIP Code</b> |            |  |
| Whitsett                                                                                                                                                                                                                   |                                                                                                                                                           |              |                                                  | TX      |                                                    | 78075                   |            |  |
| <i>Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).</i> |                                                                                                                                                           |              |                                                  |         |                                                    |                         |            |  |
| <b>27. Latitude (N) In Decimal:</b>                                                                                                                                                                                        |                                                                                                                                                           | 28.618588    |                                                  |         | <b>28. Longitude (W) In Decimal:</b>               |                         | -98.299088 |  |
| Degrees                                                                                                                                                                                                                    | Minutes                                                                                                                                                   | Seconds      | Degrees                                          | Minutes | Seconds                                            |                         |            |  |
|                                                                                                                                                                                                                            |                                                                                                                                                           |              |                                                  |         |                                                    |                         |            |  |
| <b>29. Primary SIC Code</b><br>(4 digits)                                                                                                                                                                                  | <b>30. Secondary SIC Code</b><br>(4 digits)                                                                                                               |              | <b>31. Primary NAICS Code</b><br>(5 or 6 digits) |         | <b>32. Secondary NAICS Code</b><br>(5 or 6 digits) |                         |            |  |
| 1442                                                                                                                                                                                                                       |                                                                                                                                                           |              | 212321                                           |         |                                                    |                         |            |  |
| <b>33. What is the Primary Business of this entity?</b> (Do not repeat the SIC or NAICS description.)                                                                                                                      |                                                                                                                                                           |              |                                                  |         |                                                    |                         |            |  |
| Caliche mining for road base                                                                                                                                                                                               |                                                                                                                                                           |              |                                                  |         |                                                    |                         |            |  |
| <b>34. Mailing Address:</b>                                                                                                                                                                                                | 6217 Hwy 281 PO Box 383                                                                                                                                   |              |                                                  |         |                                                    |                         |            |  |
|                                                                                                                                                                                                                            |                                                                                                                                                           |              |                                                  |         |                                                    |                         |            |  |
|                                                                                                                                                                                                                            | City                                                                                                                                                      | Three Rivers | State                                            | Tx      | ZIP                                                | 78071                   | ZIP + 4    |  |
| <b>35. E-Mail Address:</b>                                                                                                                                                                                                 | 90transportation@gmail.com                                                                                                                                |              |                                                  |         |                                                    |                         |            |  |
| <b>36. Telephone Number</b>                                                                                                                                                                                                | <b>37. Extension or Code</b>                                                                                                                              |              |                                                  |         | <b>38. Fax Number (if applicable)</b>              |                         |            |  |
| ( 361 ) 449-6979                                                                                                                                                                                                           |                                                                                                                                                           |              |                                                  |         | (   ) -                                            |                         |            |  |

**39. TCEQ Programs and ID Numbers** Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form. See the Core Data Form instructions for additional guidance.

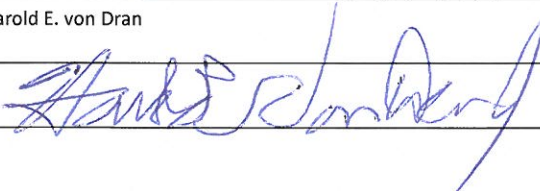
|                                                |                                                           |                                                 |                                                  |                                                     |
|------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------|--------------------------------------------------|-----------------------------------------------------|
| <input type="checkbox"/> Dam Safety            | <input type="checkbox"/> Districts                        | <input type="checkbox"/> Edwards Aquifer        | <input type="checkbox"/> Emissions Inventory Air | <input type="checkbox"/> Industrial Hazardous Waste |
| <input type="checkbox"/> Municipal Solid Waste | <input checked="" type="checkbox"/> New Source Review Air | <input type="checkbox"/> OSSF                   | <input type="checkbox"/> Petroleum Storage Tank  | <input type="checkbox"/> PWS                        |
| <input type="checkbox"/> Sludge                | <input type="checkbox"/> Storm Water                      | <input type="checkbox"/> Title V Air            | <input type="checkbox"/> Tires                   | <input type="checkbox"/> Used Oil                   |
| <input type="checkbox"/> Voluntary Cleanup     | <input type="checkbox"/> Wastewater                       | <input type="checkbox"/> Wastewater Agriculture | <input type="checkbox"/> Water Rights            | <input type="checkbox"/> Other:                     |

## **SECTION IV: Preparer Information**

|                             |                      |                       |                           |                              |
|-----------------------------|----------------------|-----------------------|---------------------------|------------------------------|
| <b>40. Name:</b>            | Harold (Ed) von Dran |                       | <b>41. Title:</b>         | President and Chief Engineer |
| <b>42. Telephone Number</b> | <b>43. Ext./Code</b> | <b>44. Fax Number</b> | <b>45. E-Mail Address</b> |                              |
| ( 210 ) 326-6991            |                      | ( ) -                 | evondran@atei97.com       |                              |

## **SECTION V: Authorized Signature**

46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers identified in field 39.

|                         |                                                                                     |                   |                            |            |
|-------------------------|-------------------------------------------------------------------------------------|-------------------|----------------------------|------------|
| <b>Company:</b>         | Alpha Terra Engineering Inc.                                                        | <b>Job Title:</b> | President / Chief Engineer |            |
| <b>Name (In Print):</b> | Harold E. von Dran                                                                  | <b>Phone:</b>     | ( 210 ) 326- 6991          |            |
| <b>Signature:</b>       |  |                   | <b>Date:</b>               | 10/06/2025 |

**Form PI-1S**  
**Registrations for Air Standard Permit**  
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**Texas Commission on Environmental Quality**

|                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>I. Registrant Information</b>                                                                                                                                                              |
| A. Company or Other Legal Customer Name:<br>Raider Aggregates LLC.                                                                                                                            |
| B. Company Official Contact Information:<br><input checked="" type="checkbox"/> Mr.<br><input type="checkbox"/> Mrs.<br><input type="checkbox"/> Ms.<br><input type="checkbox"/> Other: _____ |
| Name: Matt Muniz                                                                                                                                                                              |
| Title: Owner                                                                                                                                                                                  |
| Mailing Address: 6217 Hwy 281 PO Box 383                                                                                                                                                      |
| City: Three Rivers                                                                                                                                                                            |
| State: TX                                                                                                                                                                                     |
| ZIP Code: 78071                                                                                                                                                                               |
| Telephone Number: 361-449-6979                                                                                                                                                                |
| Fax Number:                                                                                                                                                                                   |
| Email Address: 90transportation@gmail.com                                                                                                                                                     |
| <i>All permit correspondence will be sent via email.</i>                                                                                                                                      |
| C. Technical Contact Information<br><input checked="" type="checkbox"/> Mr.<br><input type="checkbox"/> Mrs.<br><input type="checkbox"/> Ms.<br><input type="checkbox"/> Other: _____         |
| Name: Harold E. von Dran                                                                                                                                                                      |
| Title: President/Chief Engineer                                                                                                                                                               |
| Company Name: Alpha Terra Engineering Inc.                                                                                                                                                    |
| Mailing Address: 8626 Tesoro Dr Ste 810                                                                                                                                                       |
| City: San Antonio                                                                                                                                                                             |
| State: TX                                                                                                                                                                                     |
| ZIP Code: 78217                                                                                                                                                                               |

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|                                                                                                                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>I. Registrant Information (continued)</b>                                                                                                                                                              |
| C. Technical Contact Information (continued)                                                                                                                                                              |
| Telephone Number: 210-326-6991                                                                                                                                                                            |
| Fax Number:                                                                                                                                                                                               |
| Email Address: evondran@atei97.com                                                                                                                                                                        |
| <b>II. Facility and Site Information</b>                                                                                                                                                                  |
| A. Name and Type of Facility                                                                                                                                                                              |
| Facility Name: S. Jolander Ranch / Raider Aggregates Caliche Pit                                                                                                                                          |
| Type of Facility:<br><input checked="" type="checkbox"/> Permanent<br><input type="checkbox"/> Temporary                                                                                                  |
| For portable units, please provide the serial number of the equipment being authorized below.<br>Serial No(s):                                                                                            |
| B. Facility Location Information                                                                                                                                                                          |
| Street Address:                                                                                                                                                                                           |
| If there is no street address, provide written driving directions to the site and provide the closest city or town, county, and ZIP code for the site (attach description if additional space is needed). |
| US 281 S, Turn west at whitsett Take CR 421 SSW 2.2 mi, RT 0.55 mi on Caliche Rd, LT for 0.67 mi, RT for 0.48 mi. Enter through ranch gate                                                                |
|                                                                                                                                                                                                           |
|                                                                                                                                                                                                           |
| City: Whitsett                                                                                                                                                                                            |
| County: Live Oak                                                                                                                                                                                          |
| ZIP Code: 78075                                                                                                                                                                                           |
| C. Core Data Form ( <b>required</b> for Standard Permits 6006, 6007, and 6013).                                                                                                                           |
| Is the Core Data Form (TCEQ Form 10400) attached?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                                  |
| Customer Reference Number (CN): 606402345                                                                                                                                                                 |
| Regulated Entity Number (RN): 112281167                                                                                                                                                                   |
| D. TCEQ Account Identification Number (if known):                                                                                                                                                         |

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|                                                                                                                                                                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>II. Facility and Site Information (<i>continued</i>)</b>                                                                                                                                                                                                    |
| E. Type of Action<br><div style="margin-left: 20px;"><input checked="" type="checkbox"/> Initial Application<br/><input type="checkbox"/> Change to Registration<br/><input type="checkbox"/> Renewal<br/><input type="checkbox"/> Renewal Certification</div> |
| For Change to Registration, Renewal, or Renewal Certification actions provide the following:                                                                                                                                                                   |
| Registration Number:                                                                                                                                                                                                                                           |
| Expiration Date:                                                                                                                                                                                                                                               |
| F. Standard Permit Claimed:                                                                                                                                                                                                                                    |
| G. Previous Standard Exemption or PBR Registration Number:                                                                                                                                                                                                     |
| Is this authorization for a change to an existing facility previously authorized under a standard exemption or PBR?<br><div style="margin-left: 20px;"><input type="checkbox"/> Yes      <input checked="" type="checkbox"/> No</div>                          |
| If "Yes," enter previous standard exemption number(s) and PBR registration number(s) and associated effective date in the spaces provided below.                                                                                                               |
| Standard Exemption Number(s):                                                                                                                                                                                                                                  |
| PBR Registration Number(s):                                                                                                                                                                                                                                    |
| H. Other Facilities at this Site Authorized by Standard Exemption, PBR, or Standard Permit                                                                                                                                                                     |
| Are there any other facilities at this site that are authorized by an Air Standard Exemption, PBR, or Standard Permit?<br><div style="margin-left: 20px;"><input type="checkbox"/> Yes      <input checked="" type="checkbox"/> No</div>                       |
| If "Yes," enter standard exemption number(s), PBR registration number(s), Standard Permit Registration Number(s), and associated effective date in the spaces provided below.                                                                                  |
| Standard Exemption Number(s):                                                                                                                                                                                                                                  |
| PBR Registration Number(s):                                                                                                                                                                                                                                    |
| Standard Permit Registration Number(s):                                                                                                                                                                                                                        |

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>II. Facility and Site Information (<i>continued</i>)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>I. Other Air Preconstruction Permits</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Are there any other air preconstruction permits at this site?<br><div style="display: flex; justify-content: space-between; width: 80%; margin-left: 0;"><span><input type="checkbox"/> Yes</span><span><input checked="" type="checkbox"/> No</span></div>                                                                                                                                                                                                                                                                                                                                                                                 |
| If "Yes," enter permit number(s) in the spaces provided below.<br><br><br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>J. Affected Air Preconstruction Permits</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Does the standard permit directly affect any permitted facility?<br><div style="display: flex; justify-content: space-between; width: 80%; margin-left: 0;"><span><input type="checkbox"/> Yes</span><span><input checked="" type="checkbox"/> No</span></div>                                                                                                                                                                                                                                                                                                                                                                              |
| If "Yes," enter permit number(s) in the spaces provided below.<br><br><br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>K. Federal Operating Permit (FOP) Requirements</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Is this facility located at a site that is required to obtain a FOP pursuant to 30 TAC Chapter 122?<br><div style="display: flex; justify-content: space-between; width: 80%; margin-left: 0;"><span><input type="checkbox"/> Yes</span><span><input checked="" type="checkbox"/> No</span><span><input type="checkbox"/> To Be Determined</span></div>                                                                                                                                                                                                                                                                                     |
| Check the requirements of 30 TAC Chapter 122 that will be triggered if this standard permit is approved ( <i>check all that apply</i> ).<br><div style="margin-left: 20px;"><div><input type="checkbox"/> Initial Application for a FOP</div><div><input type="checkbox"/> Significant Revision for a SOP</div><div><input type="checkbox"/> Minor Revision for a SOP</div><div><input type="checkbox"/> Operational Flexibility/Off Permit Notification for a SOP</div><div><input type="checkbox"/> Revision for a GOP</div><div><input type="checkbox"/> To be Determined</div><div><input checked="" type="checkbox"/> None</div></div> |
| Identify the type(s) of FOP issued and/or FOP application(s) submitted/pending for the site. ( <i>check all that apply</i> )<br><div style="margin-left: 20px;"><div><input type="checkbox"/> SOP</div><div><input type="checkbox"/> SOP application/revision (submitted or under APD review)</div><div><input type="checkbox"/> GOP</div><div><input type="checkbox"/> GOP application/revision (submitted or under APD review)</div><div><input checked="" type="checkbox"/> N/A</div></div>                                                                                                                                              |



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|                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>III. Fee Information (go to <a href="http://www.tceq.texas.gov/epay">www.tceq.texas.gov/epay</a> to pay online)</b>                                                     |
| A. Fee Amount: \$900                                                                                                                                                       |
| B. Voucher number from ePay: Payment through STEERS                                                                                                                        |
| <b>IV. Public Notice (if applicable)</b>                                                                                                                                   |
| A. Responsible Person<br><input checked="" type="checkbox"/> Mr.<br><input type="checkbox"/> Mrs.<br><input type="checkbox"/> Ms.<br><input type="checkbox"/> Other: _____ |
| Name: Jerry Pogue                                                                                                                                                          |
| Title: Sr. Consultant                                                                                                                                                      |
| Company: Calidad Consulting LLC.                                                                                                                                           |
| Mailing Address: PO Box 64                                                                                                                                                 |
| City: Fischer                                                                                                                                                              |
| State: Texas                                                                                                                                                               |
| ZIP Code: 78623                                                                                                                                                            |
| Telephone No.: 361-813-7225                                                                                                                                                |
| Fax No.:                                                                                                                                                                   |
| Email Address: jpogue@calidadco.com                                                                                                                                        |
| B. Technical Contact<br><input checked="" type="checkbox"/> Mr.<br><input type="checkbox"/> Mrs.<br><input type="checkbox"/> Ms.<br><input type="checkbox"/> Other: _____  |
| Name: Harold (Ed) von Dran                                                                                                                                                 |
| Title: President and Chief Engineer                                                                                                                                        |
| Company: Alpha Terra Engineering                                                                                                                                           |
| Mailing Address: 8626 Tesoro Dr. Ste 810                                                                                                                                   |
| City: San Antonio                                                                                                                                                          |
| State: Texas                                                                                                                                                               |
| ZIP Code: 78217                                                                                                                                                            |

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|                                                                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>IV. Public Notice (if applicable)</b>                                                                                                                                                                                                               |
| <b>B. Technical Contact</b>                                                                                                                                                                                                                            |
| Telephone Number: 210-930-2834                                                                                                                                                                                                                         |
| Fax Number:                                                                                                                                                                                                                                            |
| Email Address: evondran@atei97.com                                                                                                                                                                                                                     |
| <b>C. Bilingual Notice</b>                                                                                                                                                                                                                             |
| Is a bilingual program required by the Texas Education Code in the School District?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                             |
| Are the children who attend either the elementary school or the middle school closest to your facility eligible to be enrolled in a bilingual program provided by the district?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| If "Yes," list which language(s) are required by the bilingual program below?<br>Language(s): _____<br>Language(s): _____                                                                                                                              |
| <b>D. Small Business Classification and Alternate Public Notice</b>                                                                                                                                                                                    |
| Does this company (including parent companies and subsidiary companies) have fewer than 100 employees or less than \$6 million in annual gross receipts?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                        |
| Is the site a major source under 30 TAC Chapter 122, Federal Operating Permit Program?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                          |
| Are the site emissions of any individual regulated air contaminant equal to or greater than 50 tpy?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                             |
| Are the site emissions of all regulated air contaminant combined equal to or greater than 75 tpy?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                               |

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| <b>V. Renewal Certification Option</b>                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>A.</b>                                                                                                                                                                                                                                                                                                             | Does the permitted facility emit an air contaminant on the Air Pollutant Watch List, and is the permitted facility located in an area on the watch list?<br><br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                     |
| <b>B.</b>                                                                                                                                                                                                                                                                                                             | For facilities participating in the Houston/Galveston/Brazoria area (HGB) cap and trade program for highly reactive VOCs (HRVOCs), do the HRVOCs need to be speciated on the maximum allowable emission rates table (MAERT)?<br><br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| <b>C.</b>                                                                                                                                                                                                                                                                                                             | Does the company and/or site have an unsatisfactory compliance history?<br><br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                                                      |
| <b>D.</b>                                                                                                                                                                                                                                                                                                             | Are there any applications currently under review for this standard permit registration?<br><br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                                     |
| <b>E.</b>                                                                                                                                                                                                                                                                                                             | Are scheduled maintenance, startup, or shutdown emissions required to be included in the standard permit registration at this time?<br><br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                          |
| <b>F.</b>                                                                                                                                                                                                                                                                                                             | Are any of the following actions being requested at the time of renewal:<br><br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                                                     |
| 1.                                                                                                                                                                                                                                                                                                                    | Are there any facilities that have been permanently shut down that are proposed to be removed from the standard permit registration?<br><br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                         |
| 2.                                                                                                                                                                                                                                                                                                                    | Do changes need to be made to the standard permit registration in order to remain in compliance?<br><br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                             |
| 3.                                                                                                                                                                                                                                                                                                                    | Are sources or facilities that have always been present and represented, but never identified in the standard permit registration, proposed to be included with this renewal?<br><br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                |
| 4.                                                                                                                                                                                                                                                                                                                    | Are there any changes to the current emission rates table being proposed?<br><br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                                                    |
| <i>Note: If answers to all of the questions in Section V. Renewal Certification Option are "No," use the certification option and skip to Section VII. of this form. If the answers to any of the questions in Section V. Renewal Certification Option are "Yes," the certification option <b>cannot</b> be used.</i> |                                                                                                                                                                                                                                                                                                         |
| <i>*If notice is applicable and comments are received in response to the public notice, the application does not qualify for the renewal certification option.</i>                                                                                                                                                    |                                                                                                                                                                                                                                                                                                         |

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| <b>VI. Technical Information Including State and Federal Regulatory Requirements</b>                                                                                                                                                                                                                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Place a check next to the appropriate box to indicate what you have included in your submittal.</b><br/> <i>Note: Any technical or essential information needed to confirm that facilities are meeting the requirements of the standard permit must be provided. Not providing key information could result in an automatic deficiency and voiding of the project.</i></p> |
| <p>A. Standard Permit requirements<br/>         (Checklists are optional; however, your review will go faster if you provide applicable checklists.)</p>                                                                                                                                                                                                                         |
| <p>Did you demonstrate that the general requirements in 30 TAC §§116.610 and 116.615 are met?</p> <p><input checked="" type="checkbox"/> Yes      <input type="checkbox"/> No</p>                                                                                                                                                                                                |
| <p>Did you demonstrate that the individual requirements of the specific standard permit are met?</p> <p><input checked="" type="checkbox"/> Yes      <input type="checkbox"/> No</p>                                                                                                                                                                                             |
| <p>B. Confidential Information (All pages properly marked "CONFIDENTIAL").</p> <p><input checked="" type="checkbox"/> Yes      <input type="checkbox"/> No</p>                                                                                                                                                                                                                   |
| <p>C. Process Flow Diagram.</p> <p><input checked="" type="checkbox"/> Yes      <input type="checkbox"/> No</p>                                                                                                                                                                                                                                                                  |
| <p>D. Process Description.</p> <p><input checked="" type="checkbox"/> Yes      <input type="checkbox"/> No</p>                                                                                                                                                                                                                                                                   |
| <p>E. Maximum Emissions Data and Calculations.</p> <p><input checked="" type="checkbox"/> Yes      <input type="checkbox"/> No</p>                                                                                                                                                                                                                                               |
| <p>F. Plot Plan.</p> <p><input checked="" type="checkbox"/> Yes      <input type="checkbox"/> No</p>                                                                                                                                                                                                                                                                             |
| <p>G. Projected Start of Construction Date, Start of Operation Date, and Length of Time at Site:</p> <p><input checked="" type="checkbox"/> Yes      <input type="checkbox"/> No</p>                                                                                                                                                                                             |
| <p>Projected Start of Construction (provide date): October 15, 2025</p>                                                                                                                                                                                                                                                                                                          |
| <p>Projected Start of Operation (provide date): November 15, 2025</p>                                                                                                                                                                                                                                                                                                            |
| <p>Length of Time at the Site: 7 years</p>                                                                                                                                                                                                                                                                                                                                       |

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**VII. Delinquent Fees and Penalties**

This form **will not be processed** until all delinquent fees and/or penalties owed to TCEQ or the Office of the Attorney General on behalf of TCEQ are paid in accordance with the Delinquent Fee and Penalty Protocol. For more information regarding Delinquent Fees and Penalties, go to the TCEQ website at:

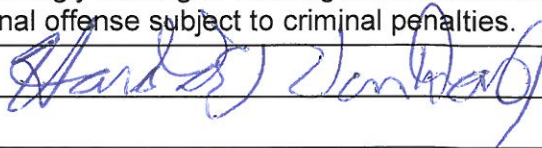
[www.tceq.texas.gov/agency/financial/fees/delin/index.html](http://www.tceq.texas.gov/agency/financial/fees/delin/index.html)

**VIII. Signature Requirements**

The signature below confirms that I have knowledge of the facts included in this application and that these facts are true and correct to the best of my knowledge and belief. I further state that to the best of my knowledge and belief, the project for which application is made will not in any way violate any provision of the Texas Water Code (TWC), Chapter 7; the Texas Health and Safety Code (THSC), Chapter 382, the Texas Clean Air Act (TCAA) the air quality rules of the Texas Commission on Environmental Quality; or any local governmental ordinance or resolution enacted pursuant to the TCAA. I further state that I understand my signature indicates that this application meets all applicable nonattainment, prevention of significant deterioration, or major source of hazardous air pollutant permitting requirements. The signature further signifies awareness that intentionally or knowingly making or causing to be made false material statements or representations in the application is a criminal offense subject to criminal penalties.

Name (printed): Harold E. von Dran, PE

Signature (original signature required):



**IX. Copies of the Registration**

The Form PI-1S application must be submitted through ePermits. No additional copies need to be sent to the Regional Office or local Air Pollution Control Program(s). The link to ePermits can be found here:

[www3.tceq.texas.gov/steers/](http://www3.tceq.texas.gov/steers/)

July 31, 2025

Texas Commission on Environmental Quality  
Air Permits Initial Review Team, MC 161  
12100 Park 35 Circle  
Building C, Third Floor  
Austin, Texas 78753

Subject: Claim of a Standard Permit under 30 TAC §116.611 to operate a Caliche Pit Facility

Reference: Raider Aggregates Limited Liability Company

To whom it may concern:

Please find attached supporting documentation for a Standard Permit application for Raider Aggregates, LLC. registering a Caliche Pit facility located off of Co Rd 421 in Whitsett Texas, 78075

## INTRODUCTION

RAIDER AGGREGATES, LLC is applying to authorize a Caliche Pit facility located in Live Oak County. Caliche based aggregates will be extracted from the site and hauled away via transport truck.

Facility layout and operational parameters are detailed in attached appendices.

### New Source Review (NSR) Authorization

RAIDER AGGREGATES, LLC is proposing to authorize the Caliche Pit facility under 30 Texas Administrative Code (TAC) §116.611. In addition to the Caliche Pit facility meeting the claimed Standard Permit, the facility meets the general requirements of 30 TAC §116.611 (posted in STEERS with this supporting data).

## INTRODUCTION

RAIDER AGGREGATES, LLC is submitting this application for a Standard Air Permit to authorize operations at a proposed caliche pit located off of Co Rd 421 near Whitsett Texas. The site will be used for the extraction and processing of caliche material, which is commonly utilized in road base, construction, and other infrastructure projects.

The facility will involve activities such as excavation, stockpiling, material handling, and loading of caliche into transport trucks. Emission sources will primarily include fugitive dust from material handling and vehicle traffic, as well as emissions from any associated equipment such as screens or conveyors. Appropriate dust suppression methods, including water sprays and best management practices, will be employed to minimize particulate emissions and ensure compliance with applicable Texas Commission on Environmental Quality (TCEQ) regulations.

This application includes a detailed site layout, equipment specifications, emission calculations, and a demonstration of compliance with all applicable air quality standards under the TCEQ's Standard Permit for Rock and Concrete Crushers.

## PROCESS DESCRIPTION AND CONTROL MEASURES

**EPN1** – Unpaved haul and access roads are utilized to allow access for empty trucks coming onsite and filled trucks moving off site. Road emissions are controlled by periodic watering using water trucks. Frequency of watering is determined by traffic and weather, with a once daily minimum. Speed limits are to be set at 15 mph to reduce dust. Environmentally approved dust suppressants may be utilized on high use sections of the roads, or during drought.



**EPN2** – Pit operations include removal of overburden (topsoil), blasting (if necessary) and retrieval of coarse caliche ore, and loading of ores into transportation trucks for delivery to the rock crusher. Pit emissions are controlled by periodic water spraying to reduce dust levels, minimizing drop heights when dumping caliche into haul trucks, minimizing disturbed areas during mining, and where feasible, stabilizing completed portions of the pit.

**EPN3** – The rock crusher is a Power screen Trakpactor 550 utilizing a Scania DC13 engine. After hauling trucks are loaded with coarse caliche ore it is transported a short distance to the rock crusher. The crusher breaks the ore down into smaller pieces which are screened by size. The crusher is equipped with a spray system for watering to reduce dust emissions. Water sprayers will be well maintained and checked upon each use. Crusher may be equipped with flexible skirting or partial enclosure to further reduce dust escape.

**EPN4** – The stockpile is where the final product is stored temporarily after being screened and sorted, where it is made ready for transport. Stockpiles will be watered and formed with low slope angles to reduce windblow dust. Windbreaks may be installed to shield stockpiles, and any inactive stockpiles may be stabilized using crusting agents or temporary covers.

**EPN5** – The finish product is transported by front end loader or excavator into hauling trucks for transport off site. Spray or fog systems will operate at the truck loading areas during active loading events. Loaders should minimize the height of material dropped into trucks to limit dust cloud formation. Trucks should be covered to reduce dust during transport.

Daily logs will also be kept for all water applications, suppressant uses, and equipment maintenance. Each EPN will be visually inspected per shift for effective dust control. Any failures in control systems will be addressed immediately and each corrective action documented.

All written records should be kept for a rolling 24-month period and be available at the request of TCEQ or any other air pollution control program upon request. Records should show daily hourly operations and hourly throughput: road dust suppression logs; and stockpile dust suppression logs.

### **EMISSIONS CALCULATION METHODOLOGY**

This section presents documentation of emissions calculations for the RAIDER AGGREGATES Caliche Pit facility. The facility has several points of emissions as listed above including engine emissions from trucks, front end loaders, excavators, and the rock crusher. All calculations represent worst-case with respect to potential emissions.

Should you have any questions regarding this submittal, please contact me at (210) 326-6991.

Respectfully submitted,

**Alpha Terra Engineering, Inc.**

**Harold E. von Dran, Jr., PE**  
**Environmental Engineer (TX 92737 / F-8920)**

#### **Attachments:**

- 1) Exhibit A – Emissions Calculations
- 2) Exhibit B – Facility Maps
- 3) Exhibit C – Process Flow Diagram and Description
- 4) Exhibit D – Crusher Info
- 5) Exhibit E – Tables and Forms



# Exhibit A

## Emission Calculations



System Parameters

| EPN #                | EPN             | Description                                                              | AP-42 EF (lb/ton) controlled <sup>1</sup> | AP-42 EF (lb/hp-hr) <sup>1</sup> |
|----------------------|-----------------|--------------------------------------------------------------------------|-------------------------------------------|----------------------------------|
| EPN1                 | Crusher         | Rock Crushing Activities                                                 | 5.400E-03                                 | --                               |
| EPN2                 | Screening       | Sorting of aggregates by size                                            | 2.200E-03                                 | --                               |
| EPN3                 | Engine Exhaust  | Engine or generator exhaust                                              | --                                        | Various*                         |
| EPN4                 | Unpaved Roads   | Roads that are unpaved                                                   | --                                        | --                               |
|                      |                 |                                                                          |                                           |                                  |
|                      |                 |                                                                          |                                           |                                  |
|                      |                 |                                                                          |                                           |                                  |
|                      |                 |                                                                          |                                           |                                  |
| hours per year       |                 | 8760                                                                     |                                           |                                  |
|                      |                 |                                                                          |                                           |                                  |
| Facility Coordinates | <b>Northing</b> | 28.62255                                                                 | <b>Easting</b>                            | -98.300657                       |
|                      |                 |                                                                          |                                           |                                  |
|                      |                 |                                                                          |                                           |                                  |
|                      |                 | <sup>1</sup> TCEQ Technical Guidance and U.S. EPA AP-42, Section 11.19.2 |                                           |                                  |
|                      |                 | <sup>2</sup> From the State of California Resources Board                |                                           |                                  |

## System Parameters

|                                |     |                                    |                          |                |
|--------------------------------|-----|------------------------------------|--------------------------|----------------|
| AP-42 EF (lb/VMT) <sup>1</sup> |     | *Engine Exhaust AP-42 <sup>2</sup> | EF (g/kWh)               |                |
| --                             |     | Nox                                | 0.4                      |                |
| --                             |     | CO                                 | 3.5                      |                |
| --                             |     | NMHC                               | 0.19                     |                |
| Various**                      |     | PM10                               | 0.02                     |                |
|                                |     |                                    |                          |                |
|                                |     | **Unpaved Roads AP-42              | EF (lb/VMT) uncontrolled | 80% Controlled |
|                                |     | PM10                               | 1.5                      | 0.3            |
|                                |     | PM2.5                              | 0.15                     | 0.03           |
|                                |     | TSP                                | 4.90                     | 0.98           |
| <b>Elevation</b>               | 214 |                                    |                          |                |
|                                |     |                                    |                          |                |
|                                |     |                                    |                          |                |
|                                |     |                                    |                          |                |
|                                |     |                                    |                          |                |

### System Parameters

| EPN                                                                                                                                                                                                                                                                                             | Description                                   | NO <sub>x</sub> | CO   | NMHC | PM <sub>10</sub> |                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------|------|------|------------------|---------------------------|
| Crushing                                                                                                                                                                                                                                                                                        | Rock Crushing Activities                      | 0.00            | 0.00 | 0.00 | 1.43             |                           |
| Screening                                                                                                                                                                                                                                                                                       | Sorting of Aggregates by Size                 | 0.00            | 0.00 | 0.00 | 0.58             |                           |
| Engine Exhaust                                                                                                                                                                                                                                                                                  | Exhaust from Crusher Generator or Engine      | 0.35            | 3.04 | 0.16 | 0.02             |                           |
| Unpaved Roads                                                                                                                                                                                                                                                                                   | Particulate Generated by use of Unpaved Roads | 0.00            | 0.00 | 0.00 | 15.84            | Total Emissions (tons/yr) |
|                                                                                                                                                                                                                                                                                                 |                                               | 0.35            | 3.04 | 0.16 | 17.86            | 21.41                     |
| Conditions:                                                                                                                                                                                                                                                                                     |                                               |                 |      |      |                  |                           |
| Engine Exhaust outputs Based on permit data and technical documentation for the Scania DC13 Tier 4 Final (Tier 4f) engine running on ultra-low sulfur diesel annual emissions (tons per year) for your scenario— ~10 hours per day, 5 days per week (2640 hours/year), 400 hp (approx. 298 kW): |                                               |                 |      |      |                  |                           |
|                                                                                                                                                                                                                                                                                                 |                                               |                 |      |      |                  |                           |
| PM10 Values for Crushing and Screening based on a Powerscreen Trakpactor 550 operating at 200 tons/hour, 10 hours/day, 5 days/week assuming wet suppression or similar controls are in place.                                                                                                   |                                               |                 |      |      |                  |                           |
|                                                                                                                                                                                                                                                                                                 |                                               |                 |      |      |                  |                           |
| Unpaved Roads PM10 assumes best practice dust mitigation (80%) and 0.25 miles of unpaved roads assuming transporting the maximum of 1716000 tons a year.                                                                                                                                        |                                               |                 |      |      |                  |                           |
| Throughput (tons/hr) x EF (lb/ton) = lb/hr/ 1ton/2000 lb = tons/hr x2640 hr/yr = tons/year                                                                                                                                                                                                      |                                               |                 |      |      |                  |                           |

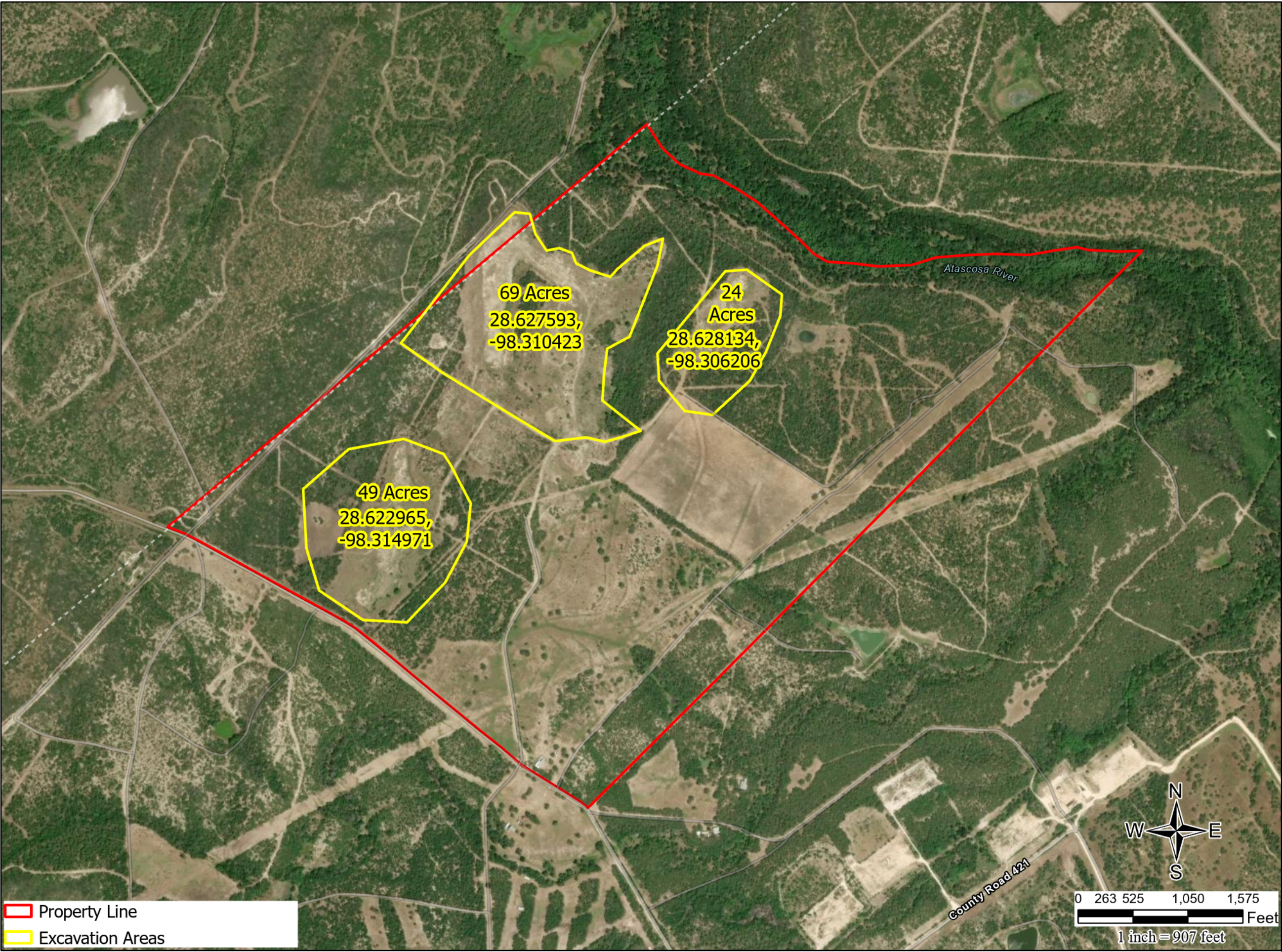
Calculations

| PM10 Calculations                                                                                                     |                          |                          |                 |                       |                    |              |
|-----------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|-----------------|-----------------------|--------------------|--------------|
| Throughput (tons/hr) x EF (lb/ton) =(lb/hr)/ (1ton/2000 lb) = tons/hr x 2640 hr/yr = tons/year                        |                          |                          |                 |                       |                    |              |
|                                                                                                                       | Throughput (Tons/hr)     | Emission Factor (lb/ton) | One Ton (lbs)   | Operating Time Hrs/Yr | PM10               | Formulas     |
| Crushing                                                                                                              | 200                      | 5.400E-03                | 2000            | 2640                  | 1.426              | =B5*C5/D5*E5 |
| Screening                                                                                                             | 200                      | 2.200E-03                | 2000            | 2640                  | 0.581              | =B6*C6/D6*E6 |
|                                                                                                                       |                          |                          |                 |                       |                    |              |
| Total Tons = Trips per year x Tons per trip                                                                           |                          |                          |                 |                       |                    |              |
|                                                                                                                       |                          |                          |                 |                       |                    |              |
| Uncontrolled PM10 ton/yr = Total Tons x EF/2000                                                                       |                          |                          |                 |                       |                    |              |
|                                                                                                                       |                          |                          |                 |                       |                    |              |
| Controlled PM10 tons/yr = Uncontrolled PM10 tons/yr x (1 - Control Efficiency)                                        |                          |                          |                 |                       |                    |              |
|                                                                                                                       |                          |                          |                 |                       |                    |              |
| Unpaved Roads                                                                                                         |                          |                          |                 |                       |                    |              |
|                                                                                                                       |                          |                          |                 |                       |                    |              |
| Total Tons (ton/yr)                                                                                                   | Trips per year           | Tons per trip            |                 |                       |                    |              |
| 528000                                                                                                                | 26400                    | 20                       |                 |                       |                    |              |
|                                                                                                                       |                          |                          |                 |                       |                    |              |
| Uncontrolled PM10 ton/yr                                                                                              | Emission Factor (lb/VMT) | lb/ton                   |                 |                       |                    |              |
| 79.2                                                                                                                  | 0.3                      | 2000                     |                 |                       |                    |              |
|                                                                                                                       |                          |                          |                 |                       |                    |              |
| Controlled PM10 (ton/yr)                                                                                              | (1-Control efficiency)   | using 80%                |                 |                       |                    |              |
| 15.84                                                                                                                 | 0.2                      |                          |                 |                       |                    |              |
|                                                                                                                       |                          |                          |                 |                       |                    |              |
| Emissions Sheet                                                                                                       |                          |                          |                 |                       |                    |              |
|                                                                                                                       |                          |                          |                 |                       |                    |              |
| (((Emission Factor (g/kWh)xEngine power (kw)xOperating hours (h))/1000000 (metric ton/g))x1.1023 (US tons/metric ton) |                          |                          |                 |                       |                    |              |
|                                                                                                                       | Emission Factor (g/kWh)  | Engine Power (kW)        | Operating Hours | metric ton/g (1000Kg) | US tons/metric ton |              |
| NOx                                                                                                                   | 0.4                      | 298                      | 2640            | 1,000,000             | 1.1023             |              |
| CO                                                                                                                    | 3.5                      | 298                      | 2640            | 1,000,000             | 1.1023             |              |
| NMHC                                                                                                                  | 0.19                     | 298                      | 2640            | 1,000,000             | 1.1023             |              |
| PM10                                                                                                                  | 0.02                     | 298                      | 2640            | 1,000,000             | 1.1023             |              |
|                                                                                                                       |                          |                          |                 |                       |                    |              |
| Annual Emissions (US tons)                                                                                            |                          |                          |                 |                       |                    |              |
| NOx                                                                                                                   | 0.35                     |                          |                 |                       |                    |              |
| CO                                                                                                                    | 3.04                     |                          |                 |                       |                    |              |
| NMHC                                                                                                                  | 0.16                     |                          |                 |                       |                    |              |
| PM10                                                                                                                  | 0.02                     |                          |                 |                       |                    |              |

# Exhibit B

## Facility Maps





8626 Tesoro Drive Suite 810  
San Antonio, TX 78217

P: (210) 930-2834

[www.atei97.com](http://www.atei97.com)

TBPE F-8920; Arch BR-1889;

**Raider Aggregates Area Map**

Property Southwest of Whitsett Tx  
(~2000 acre area)  
Live Oak County

Project Number:  
S250416-927

Date: 6/30/2025

Project MGR: EvD

Drawn By: Matt Wilmot

FIGURE  
Map



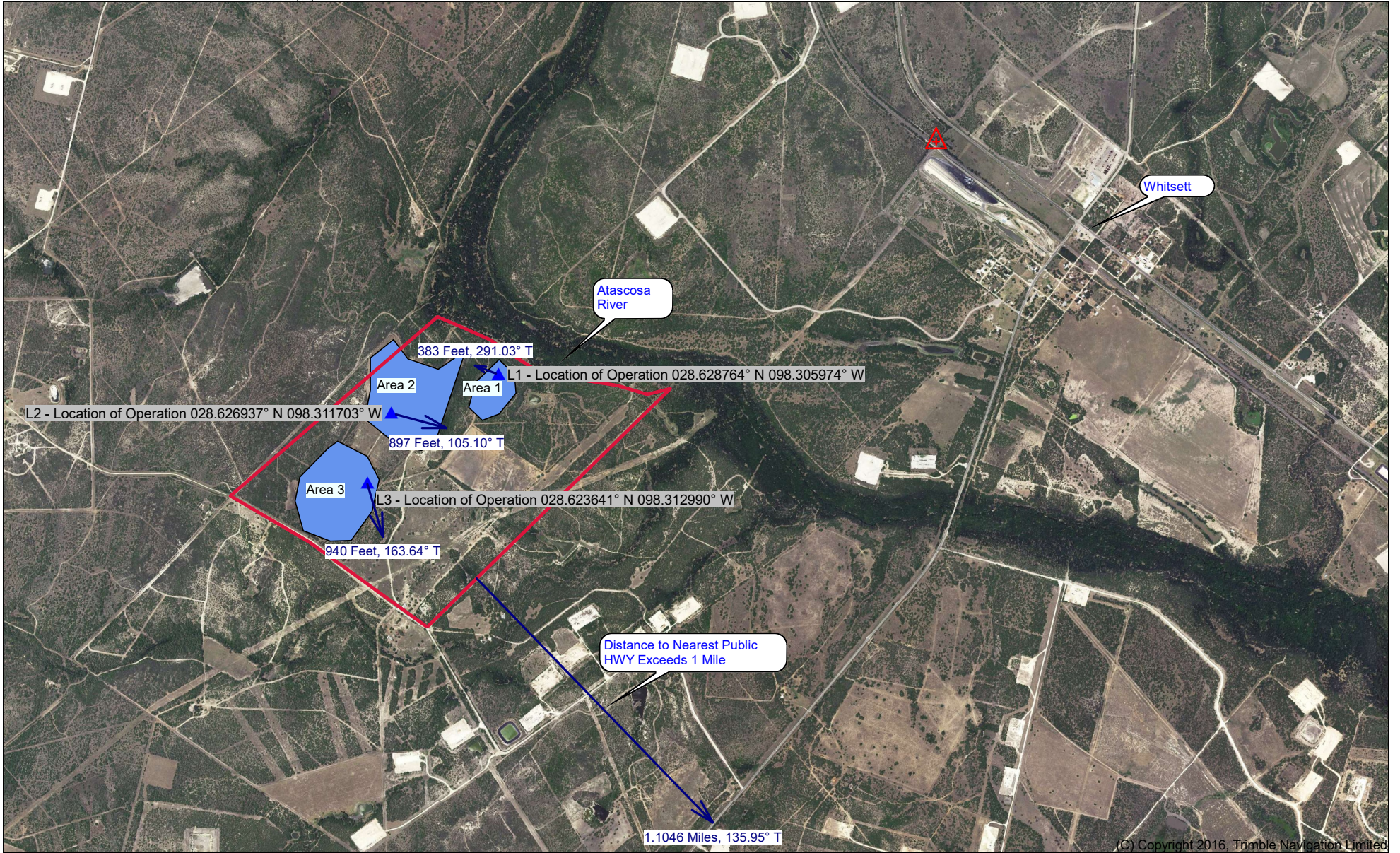
(Satellite Image (Hybrid Street))

098.332458° W  
028.646264° N +



(Satellite Image (Hybrid Street))

SATELLITE IMAGE (HYBRID STREET) QUADRANGLE  
TEXAS  
AERIAL PHOTO SERIES  
098.258095° W  
+ 028.646264° N



028.606089° N +  
098.332458° W

(Satellite Image (Hybrid Street))

Produced by Trimble Terrain Navigator Pro  
Topography based on USGS 1:12,000 Maps

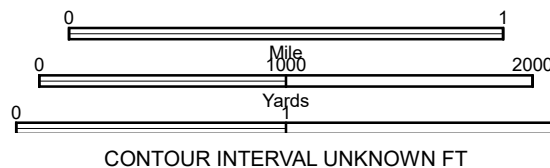
North American 1983 Datum (NAD83)

To place on the predicted North American 1927 move the  
projection lines 29M N and 28M W

Declination



(Satellite Image (Hybrid Street))  
SCALE 1:28000



Printed: Thu Jul 03, 2025

+ 028.606089° N  
098.258095° W

(Satellite Image (Hybrid Street))

28098-F3-TM-012  
WHITSETT, TX  
MAY 16, 2022



(CABALLOS CREEK)

098.330849° W  
028.643759° N +

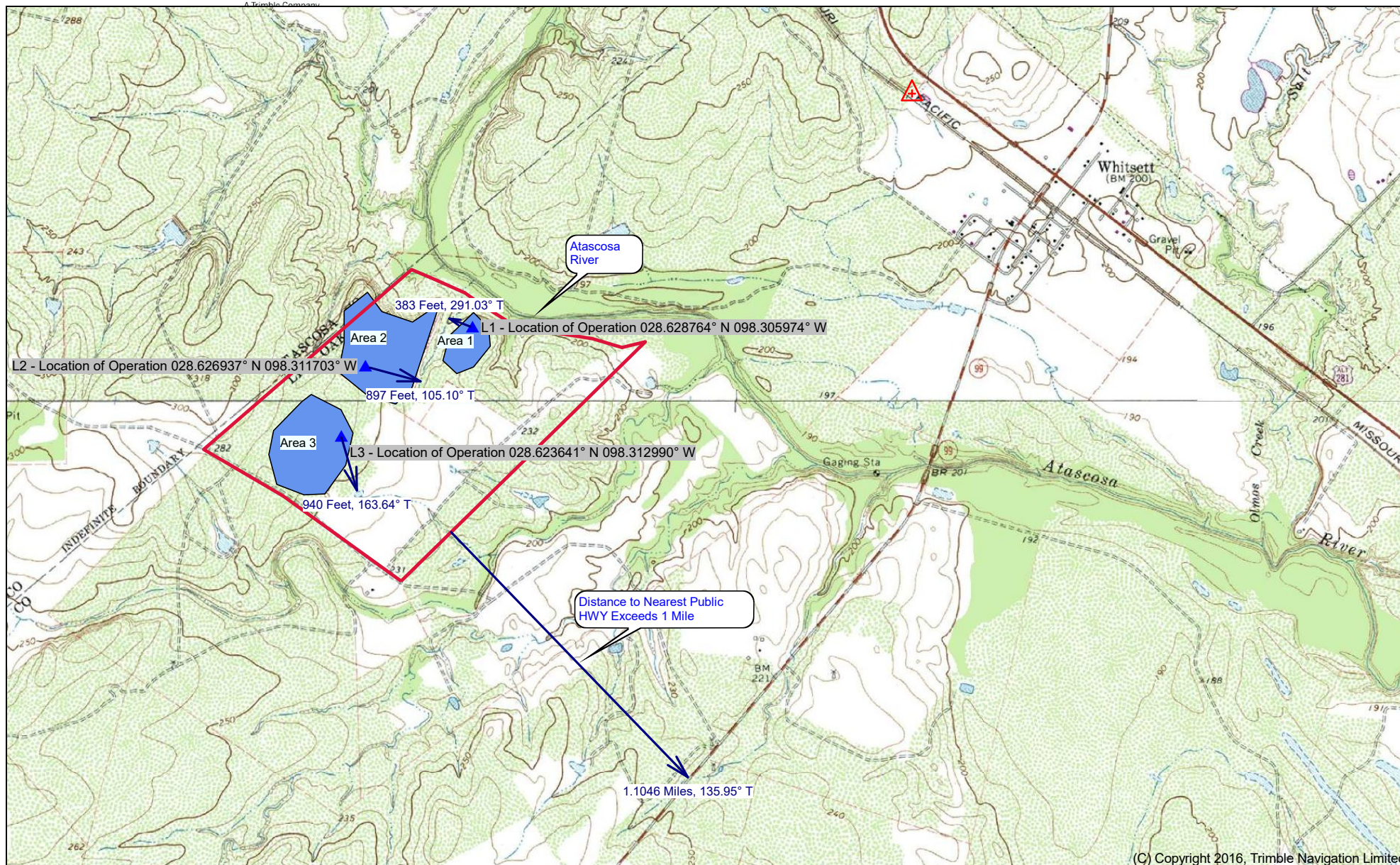


(WHITSETT)

WILLOW HOLLOW TANK QUADRANGLE  
TEXAS  
TOPOGRAPHIC SERIES

098.255931° W  
+ 028.643759° N

(PEGGY)



(C) Copyright 2016, Trimble Navigation Limited

028.603339° N +  
098.330849° W

(CALLIHAM NW)

Produced by Trimble Terrain Navigator Pro  
Topography based on USGS 1:24,000 Maps

North American 1983 Datum (NAD83)

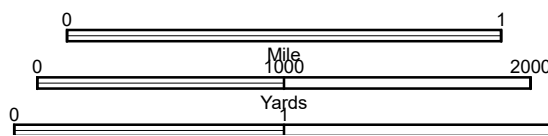
To place on the predicted North American 1927 move the  
projection lines 29M N and 28M W

Declination



GN 0.34° E  
MN 3.96° E

(CALLIHAM)  
SCALE 1:28000



CONTOUR INTERVAL 10 FT

Printed: Thu Jul 03, 2025

+ 028.603339° N  
098.255931° W

(THREE RIVERS)

28098-E3-TM-024  
WILLOW HOLLOW TANK, TX  
DEC 31, 1969



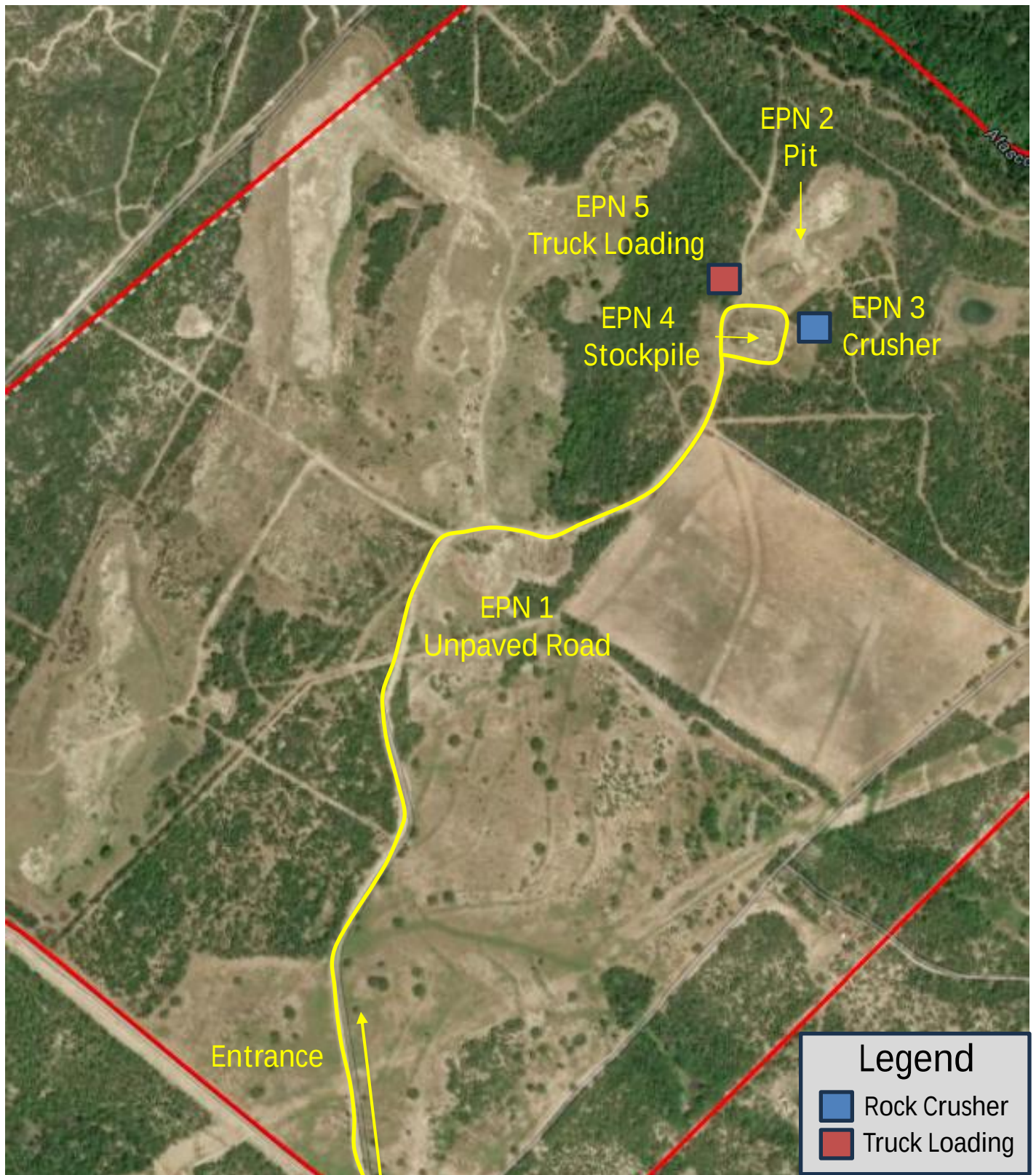
# Exhibit C

## Process Flow Diagram

Company:  
Raider Aggregate

Facility:  
Caliche Pit

Project # S250416-927



Design: EvD

Dwg: EvD

Ck:

Appr: EvD

Scale  
NTS'

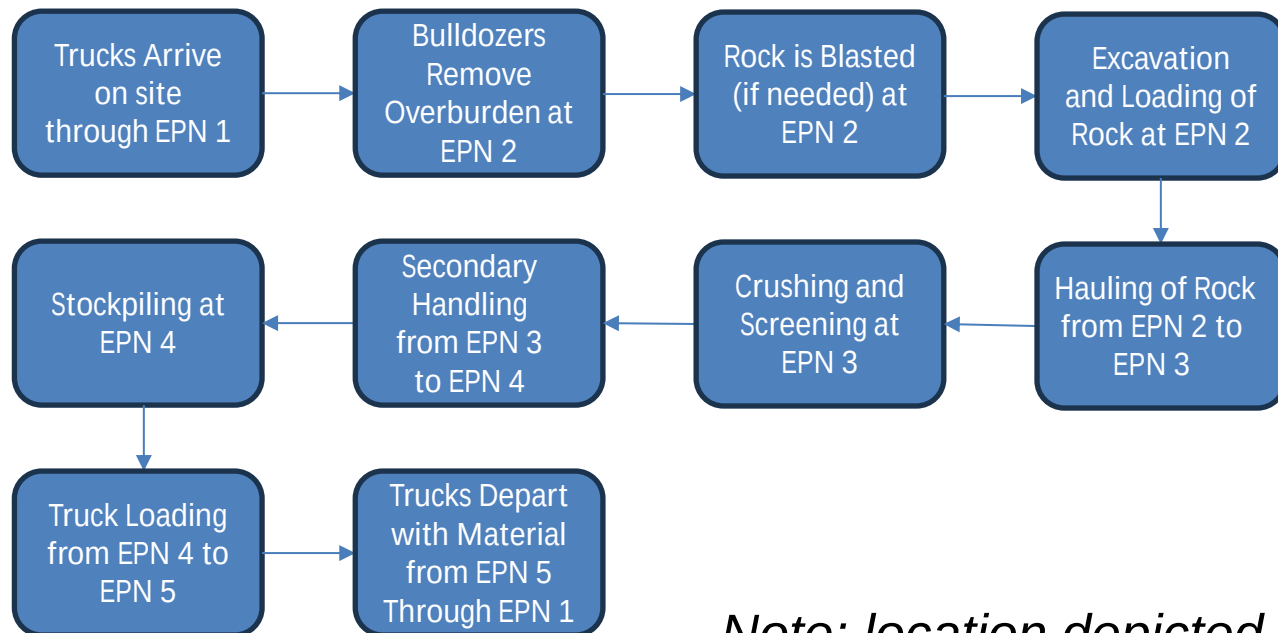
Caliche Pit

Example Process Flow Diagram

Sheet: 1

Dwg#: A

Date 07/15/2025



### Legend

EPN 1: Unpaved Road  
EPN 2: Pit  
EPN 3: Crusher Location  
EPN 4: Stockpile  
EPN 5: Truck Loading Area

*Note: location depicted is closest to the river.  
All sub sequent locations will be similarly arranged.*

### Process Description:

1. Empty trucks arrive at the mining facility and travel along an unpaved road towards the operation.
2. Bulldozers remove the overburden (topsoil) covering the caliche deposit.
3. Controlled explosives fracture the caliche ore into manageable sizes suitable for excavation (if needed).
4. Excavators, front end loaders, or shovels load the blasted material into off road haul trucks.
5. Loaded haul trucks transport the coarse caliche ore to a designated processing area where a crusher is located.
6. The coarse caliche material enters a primary crusher, reducing it to smaller fragments.
7. The smaller fragments are screened by size.
8. The sorted caliche is loaded into off road haulers and deposited in a stockpile.
9. The final product is stockpiled by size and made ready for transport.
10. Outbound trucks are loaded with the final product.
11. Loaded trucks are checked for weight and proceed off site for delivery to construction projects, plants, or other end users.

Design: EvD

Dwg: EvD

Ck:

Appr: EvD

Caliche Pit

Example Process Flow Diagram

Sheet: 1

Dwg#: B

Date: 07/15/2025

# Exhibit D

## Crusher Info



# POWERSCREEN® TRAKPACTOR 550

HORIZONTAL IMPACTOR



→ GET STARTED



TECHNICAL SPECIFICATION - REV 4 01/02/2023



To use my interactive features I need to be opened in 'Adobe Acrobat Reader' click here to download



## TRAKPACTOR 550



- 🏠 OVERVIEW
  - ▶ FEATURES & BENEFITS
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    - ▶ CRUSHER SPECIFICATION
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    - ▶ HAZEMAG CRUSHER FEATURES
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  - ▶ DIMENSIONS

# OVERVIEW

## SPECIFICATION

|                          |                                                                                                                               |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>Total Weight PS:</b>  | Tier 4F: 57,450kg (126,656lbs) Hopper extensions, bypass conveyor, single pole magnet                                         |
| <b>Total Weight VGF:</b> | Tier 3: 54,850kg (120,924lbs) Hopper extensions, bypass conveyor, single pole magnet, extended main conveyor                  |
| <b>Transport</b>         | <b>Length</b> 17.46m (57' 5") PS & Standard product conveyor<br><b>Height</b> 3.8m (12' 6")<br><b>Width</b> 3m (9' 10")       |
| <b>Working</b>           | <b>Length</b> 17.82m (58' 6") PS & Standard product conveyor<br><b>Height</b> 5.15m (16' 10")<br><b>Width</b> 6.96m (22' 10") |
| <b>Crusher Type:</b>     | Twin apron 4 bar impact crusher, feed opening 1370mm x 911mm (54" x 36")                                                      |
| <b>Power Unit</b>        | Tier 3 Caterpillar C13 328kW (440hp) or Tier 4F Scania DC13 368kW (494hp)                                                     |
| <b>Plant Colour</b>      | RAL 5021, RAL 7024, RAL 9005                                                                                                  |



## APPLICATIONS



**Aggregate**  
Blasted rock  
River rock



**Recycling**  
C&D waste  
Foundry waste



**Mining**  
Processed ores  
Processed minerals





## TRAKPACTOR 550



### OVERVIEW

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## PRODUCT CONVEYOR

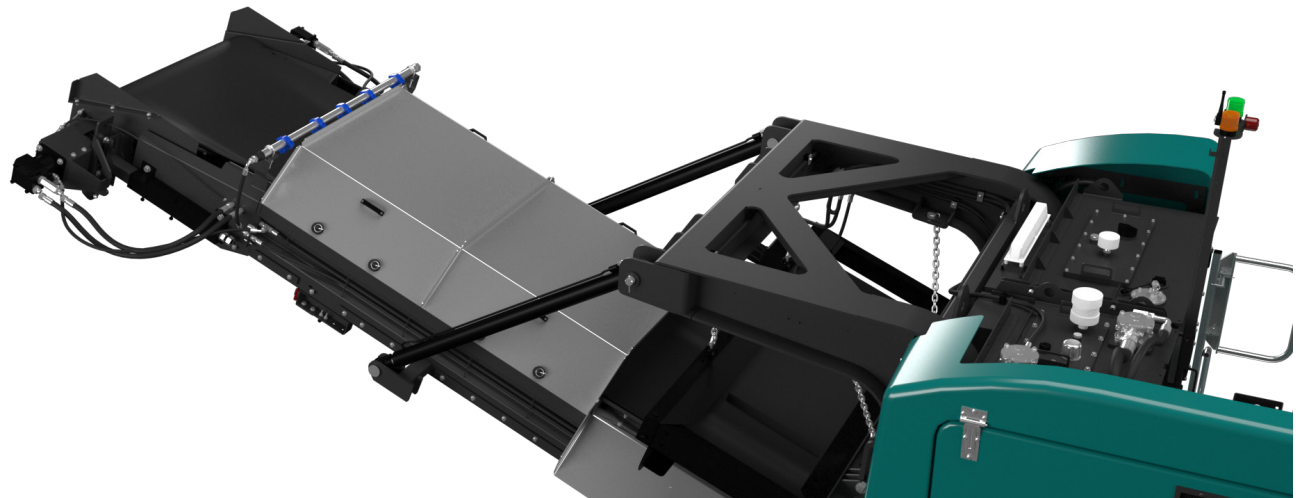
|                          |                                                                                                                                                                                                   |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Conveyor type:</b>    | Fully removable modular unit with hydraulic raise & lower facility to increase clearance & simplify rebar removal. Shallow troughed with winged rollers & fully tunnelled with minimal snag areas |
| <b>Belt type:</b>        | Ripstop EP500/3 8+2 with steel wire breaker ply                                                                                                                                                   |
| <b>Belt width:</b>       | 1200mm (3' 11")                                                                                                                                                                                   |
| <b>Discharge height:</b> | 3.8m (12' 6") when fully raised                                                                                                                                                                   |
| <b>Stockpile volume:</b> | 101m <sup>3</sup> (132 cu. yd.)                                                                                                                                                                   |
| <b>Feedboot:</b>         | Fabricated steel with abrasion resistant steel liners                                                                                                                                             |
| <b>Impact area:</b>      | Heavy duty under crusher impact bars                                                                                                                                                              |
| <b>Skirting:</b>         | Fully skirted in wear resistant rubber up to magnet discharge area                                                                                                                                |
| <b>Drive:</b>            | Dual hydraulic motor direct to head drum                                                                                                                                                          |
| <b>Lubrication:</b>      | Centralised grease points for lubrication of shaft bearings                                                                                                                                       |
| <b>Belt covers:</b>      | Optional aluminium removable dust covers                                                                                                                                                          |
| <b>Belt adjustment:</b>  | Belt tensioning is by use of screw adjustment at                                                                                                                                                  |

|                     |                                                                                       |
|---------------------|---------------------------------------------------------------------------------------|
| <b>Speed wheel:</b> | the head drum<br>Designed to stop plant feed if the discharge conveyor slows or stops |
|---------------------|---------------------------------------------------------------------------------------|

### DUST SUPPRESSION SYSTEM

Spray bars with atomiser nozzles mounted over product conveyor & final conveyor discharge, piped to an inlet manifold for customer water supply or optional pump.

|                          |                                     |
|--------------------------|-------------------------------------|
| <b>Type:</b>             | Clean water multi atomising nozzles |
| <b>Inlet:</b>            | Single point on chassis             |
| <b>Inlet pressure:</b>   | 3 bar (44psi)                       |
| <b>Water supply:</b>     | 24 litres (6.3 g) per minute min    |
| <b>Frost protection:</b> | Via system main valves              |
| <b>Pump:</b>             | Optional                            |





## TRAKPACTOR 550



### OVERVIEW

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- ▶ DIMENSIONS



## POWER UNIT & HYDRAULICS

### Tier 3 Equivalent:

Caterpillar C-13 ACERT, 6 cylinder, 328 kW (440hp)

### Operating Conditions:

Ambient temp. +30°C to -5°C (86°F to 23°F) at altitudes up to 2000m (6562ft) above sea level - For applications outside this range please consult with Powerscreen as the plant performance / reliability may be affected.

### Operating rpm range:

1700 - 2100rpm

### Emission control technique:

Not applicable

### Plant drive:

High quality tandem pumps driven via engine PTO's

### Clutch type:

DESCH REVOX 14" WET CLUTCH

### Tier 4F / Stage V:

Scania DC13 385A - 368kW (494hp)

### Operating conditions:

Ambient temp. +30°C to -5°C (86°F to 23°F) at altitudes up to 2000m (6562ft) above sea level - For applications outside this range please consult with Powerscreen as the plant performance / reliability may be affected

### Operating rpm range:

1500 - 1900rpm

### Emission control technique:

Selective Catalytic Reduction (SCR)

### Reductant tank size:

60 L (16 US Gal)

### Plant drive:

High quality pumps driven via clutch PTO's

### Clutch type:

DESCH REVOX 14" WET CLUTCH

### Fuel tank capacity:

1000 L (264 US Gal)

### Hydraulic tank capacity:

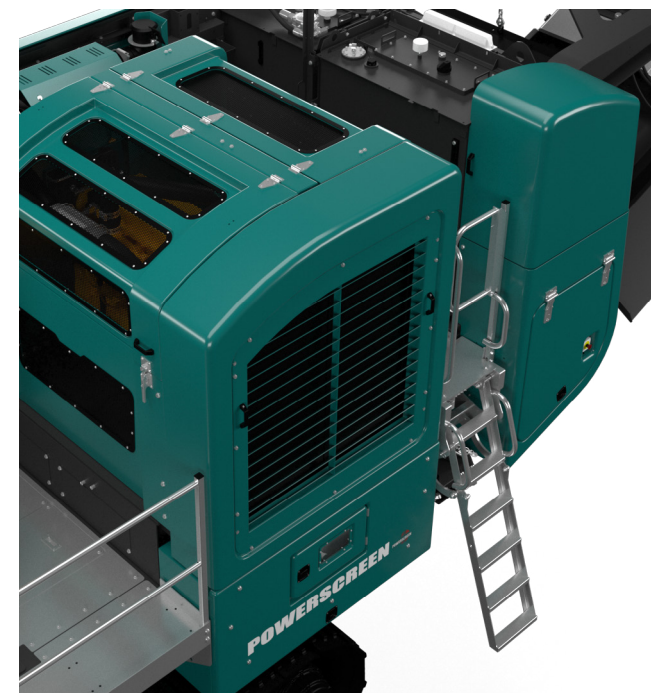
740 L (195 US Gal)

### Crusher drive:

Direct drive via wedge belts, clutch pulley diameter 425mm T4, 375mm T3  
Crusher pulley diameter 800mm Terex (39")  
800mm with Hazemag chamber  
Crushing performance can be tuned, by changing engine speed via the PLC .

### Crusher drive tensioning:

VEE belt tensioner system







## TRAKTOR 550



### OVERVIEW

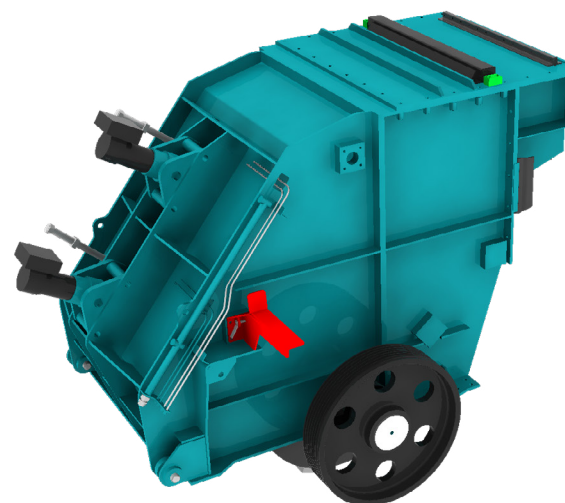
- ▶ FEATURES & BENEFITS
- ▶ CRUSHER
  - ▶ CRUSHER SPECIFICATION
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  - ▶ OPTIONS 3
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# HAZEMAG CRUSHER SPECIFICATION

|                             |                                                                                                                                                               |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Feed opening:</b>        | 1360mm x 800mm (54" x 32")                                                                                                                                    |
| <b>Max lump size*:</b>      | 500mm <sup>3</sup> (20in <sup>3</sup> ) / 860mm (34") diagonally/<br>1000 x 1000 x 200mm (39 x 39 x 8") slab<br>*depending on material blow bar specification |
| <b>Rotor width:</b>         | 1340mm (53")                                                                                                                                                  |
| <b>Rotor diameter:</b>      | 1200mm (47")                                                                                                                                                  |
| <b>Number of aprons:</b>    | 2                                                                                                                                                             |
| <b>Maximum clearance:</b>   | 273mm (11") on both aprons                                                                                                                                    |
| <b>Maximum OSS setting:</b> | 200mm (8") upper apron, 100mm (4") lower apron                                                                                                                |
| <b>Minimum CSS setting:</b> | 75mm (3") upper apron, 35mm (1.4") lower apron                                                                                                                |

|                                |                                           |
|--------------------------------|-------------------------------------------|
| <b>Number of blow bars:</b>    | 4                                         |
| <b>Blow bar removal:</b>       | Vertically                                |
| <b>Blow bar configuration:</b> | 2 full & 2 half (optional 4 full)         |
| <b>Setting adjustment:</b>     | Hydraulic assist                          |
| <b>Overload protection:</b>    | Hydraulic                                 |
| <b>Rotor speeds:</b>           | 540 - 630rpm (34 - 40m/s) (111 - 131ft/s) |
| <b>Applications:</b>           | Demolition / recycling / quarry           |
| <b>Crusher weight:</b>         | 14,855kg (32,750lbs)                      |
| <b>Full blow bar weight:</b>   | 410kg (904lbs)                            |
| <b>Side Liners:</b>            | 20mm thick, abrasive resistant steel      |





## TRAKPACTOR 550



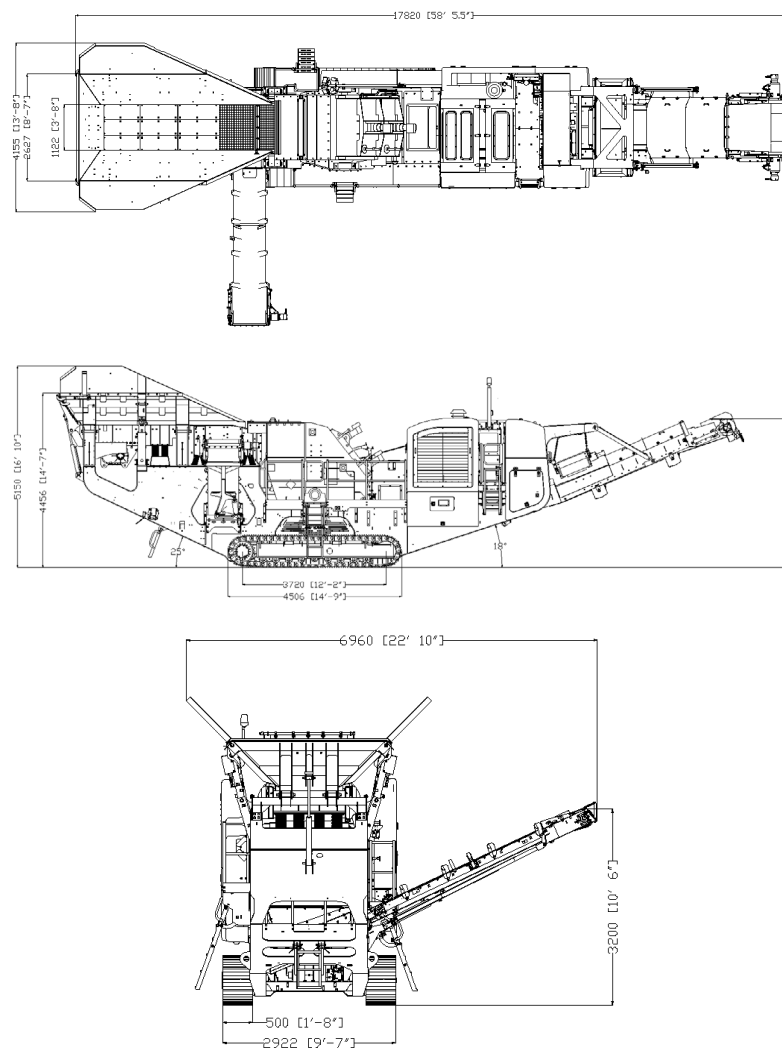
### OVERVIEW

- ▶ FEATURES & BENEFITS
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## DIMENSIONS

Figure 1: Trakpactor 550 - Pre-screen, Standard Product Conveyor  
Working Position



MORE DIMENSIONS OVERLEAF



|                                                                                                                           |                     |                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------|
|  <b>CALIFORNIA</b><br>AIR RESOURCES BOARD | <b>SCANIA CV AB</b> | <b>EXECUTIVE ORDER U-R-024-0034</b><br>New Off-Road<br>Compression-Ignition Engines |
|---------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------|

Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-14-012;

**IT IS ORDERED AND RESOLVED:** That the following compression-ignition engine and emission control system produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

| MODEL YEAR                                                                                                                                                                                                                                                  | ENGINE FAMILY | DISPLACEMENT (liters) | FUEL TYPE                                                  | USEFUL LIFE (hours) |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------|------------------------------------------------------------|---------------------|
| 2018                                                                                                                                                                                                                                                        | JY9XL12.7DAA  | 12.7                  | Diesel                                                     | 8000                |
| SPECIAL FEATURES & EMISSION CONTROL SYSTEMS                                                                                                                                                                                                                 |               |                       | TYPICAL EQUIPMENT APPLICATION                              |                     |
| Electronic Direct Injection, Turbocharger, Charge Air Cooler, Exhaust Gas Recirculation, Engine Control Module, Diesel Oxidation Catalyst (Except Engine Code DC13085A), Smoke Puff Limiter, Selective Catalytic Reduction-Urea, Ammonia Oxidation Catalyst |               |                       | Crane, Loader, Tractor, Dozer, Pump, Compressor, Generator |                     |

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for non-methane hydrocarbon (NMHC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

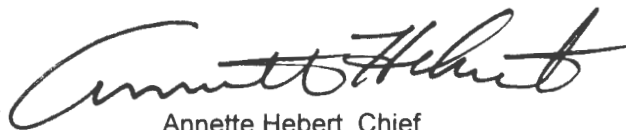
| RATED POWER CLASS | EMISSION STANDARD CATEGORY |      | EXHAUST (g/kw-hr) |      |          |     |      | OPACITY (%) |     |      |
|-------------------|----------------------------|------|-------------------|------|----------|-----|------|-------------|-----|------|
|                   |                            |      | NMHC              | NOx  | NMHC+NOx | CO  | PM   | ACCEL       | LUG | PEAK |
| 130 ≤ KW ≤ 560    | Tier 4 Final               | STD  | 0.19              | 0.40 | N/A      | 3.5 | 0.02 | N/A         | N/A | N/A  |
|                   |                            | CERT | 0.08              | 0.19 | --       | 0.2 | 0.02 | --          | --  | --   |

**BE IT FURTHER RESOLVED:** That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

**This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.**

Executed at El Monte, California on this 5 day of February 2018.



Annette Hebert, Chief  
Emissions Compliance, Automotive Regulations and Science Division

ATTACHMENT 1 OF 1

Engine ModelsEZ U-R-024-0034

1/17/2018

| Engine Family | 1.Engine Code | 2.Engine Model | 3.Dis-<br>placement | 4.Power kW<br>@RPM | 5.Fuel Rate:<br>mm/stroke @<br>peak HP | 6.Fuel Rate:<br>(lbs/hr) @<br>peak HP | 7.Torque Nm<br>@ RPM | 8.Fuel Rate:<br>mm/stroke@<br>peak torque | 9.Fuel Rate:<br>(lbs/hr)@<br>peak torque | 10.Emission Control Device                  |
|---------------|---------------|----------------|---------------------|--------------------|----------------------------------------|---------------------------------------|----------------------|-------------------------------------------|------------------------------------------|---------------------------------------------|
| JY9XL12.7DAA  | DC13 084A     | 2133500        | 12.7                | 294 @ 2100         | 198                                    | 140                                   | 2157 @ 1200          | 290                                       | 117                                      | DDI, ECM, TC, CAC, EGR, SPL, DOC, SCR, AMOX |
| JY9XL12.7DAA  | DC13 084A     | 2133501        | 12.7                | 331 @ 2100         | 222                                    | 157                                   | 2255 @ 1300          | 307                                       | 134                                      | DDI, ECM, TC, CAC, EGR, SPL, DOC, SCR, AMOX |
| JY9XL12.7DAA  | DC13 085A     | 2133502        | 12.7                | 368 @ 2100         | 245                                    | 173                                   | 2373 @ 1300          | 325                                       | 142                                      | DDI, ECM, TC, CAC, EGR, SPL, SCR, AMOX      |
| JY9XL12.7DAA  | DC13 085A     | 2133503        | 12.7                | 405 @ 1900         | 344                                    | 243                                   | 2373 @ 1300          | 394                                       | 172                                      | DDI, ECM, TC, CAC, EGR, SPL, SCR, AMOX      |
| JY9XL12.7DAA  | DC13 087A     | 2245984        | 12.7                | 257 @ 1800         | 193                                    | 117                                   | 1638 @ 1300          | 219                                       | 96                                       | DDI, ECM, TC, CAC, EGR, SPL, DOC, SCR, AMOX |
| JY9XL12.7DAA  | DC13 087A     | 2258254        | 12.7                | 257 @ 2100         | 175                                    | 124                                   | 1720 @ 1300          | 232                                       | 102                                      | DDI, ECM, TC, CAC, EGR, SPL, DOC, SCR, AMOX |
| JY9XL12.7DAA  | DC13 087A     | 2245985        | 12.7                | 283 @ 1800         | 211                                    | 149                                   | 1765 @ 1300          | 238                                       | 104                                      | DDI, ECM, TC, CAC, EGR, SPL, DOC, SCR, AMOX |
| JY9XL12.7DAA  | DC13 089A     | 2245986        | 12.7                | 257 @ 1800         | 193                                    | 117                                   | 1600 @ 1300          | 215                                       | 94                                       | DDI, ECM, TC, CAC, EGR, SPL, DOC, SCR, AMOX |
| JY9XL12.7DAA  | DC13 089A     | 2245987        | 12.7                | 283 @ 1800         | 211                                    | 128                                   | 1780 @ 1300          | 240                                       | 105                                      | DDI, ECM, TC, CAC, EGR, SPL, DOC, SCR, AMOX |



# Exhibit E

## Tables and Forms



**Texas Commission on Environmental Quality**  
**Air Quality Standard Permit for Permanent Rock and Concrete Crushers**  
**Registration Checklist**

The following checklist has been developed to help the Texas Commission Environmental Quality (TCEQ), Air Permits Division (APD) confirm that the permanent rock or concrete crusher meets the standard permit requirements. Please read all questions and check “YES,” “NO,” or “N/A” or give specific information for the facility. If the permanent rock or concrete crusher plant does not meet all conditions of this standard permit, it will not be allowed to operate under the standard permit and must apply for a case-by-case preconstruction permit as required under Title 30 Texas Administrative Code § 116.111 (30 TAC § 116.111).

|                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| <b>Please Check The Type of Facility:</b> <span style="margin-left: 100px;"><input checked="" type="checkbox"/> Rock Crusher</span> <span style="margin-left: 20px;"><input type="checkbox"/> Concrete Crusher</span> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                  |
| <b>CONDITION NUMBER AND DESCRIPTION</b>                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                  |
| (1)(B)                                                                                                                                                                                                                | <p>If crushing concrete, will the concrete crushing facility be operated at least 440 yards from any building which is in use as a single or multi-family residence, school, or place of worship at the time this application is filed?</p> <p>(The measurement of distance shall be taken from the point on the concrete crushing facility that is nearest to the residence, school, or place of worship toward the point on the building in use as a residence, school, or place of worship that is nearest the concrete crushing facility.)</p> | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A |
| (1)(C)(ii)                                                                                                                                                                                                            | <p>In lieu of meeting the distance requirements of (1)(B), will the structure(s) within 440 yards of the concrete crushing facilities be occupied or used solely by the owner of the facility or the owner of the property upon which the facility is located?</p>                                                                                                                                                                                                                                                                                 | <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A |
| (1)(D)                                                                                                                                                                                                                | <p>In lieu of meeting the distance requirements in (1)(B), will all the following occur:</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                  |
| (1)(D)(i)                                                                                                                                                                                                             | <p>Will this plant be engaged in crushing concrete and other materials resulting from the demolition of a structure on this site and will the concrete and other materials being crushed be used primarily at this site?</p>                                                                                                                                                                                                                                                                                                                       | <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A |
| (1)(D)(ii)                                                                                                                                                                                                            | <p>Will this plant operate onsite for one period of 180 calendar days or less?</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A |
| (1)(D)(iii)                                                                                                                                                                                                           | <p>Will all applicable conditions stated in commission rules, including operating conditions be met?</p>                                                                                                                                                                                                                                                                                                                                                                                                                                           | <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A |
| (1)(D)(iv)                                                                                                                                                                                                            | <p>Will the plant be located in a county with a population of 2.4 million or more persons, or in a county adjacent to such a county?</p>                                                                                                                                                                                                                                                                                                                                                                                                           | <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A |
| (1)(E)                                                                                                                                                                                                                | <p>Do you intend to apply for an authorization under Texas Health and Safety Code (THSC) § 382.0518, Preconstruction Permit, for any other crushing facility to be located at the same site within 12 months from the date of this authorization?</p>                                                                                                                                                                                                                                                                                              | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A |



## Air Quality Standard Permit for Permanent Rock and Concrete Crushers Registration Checklist

|                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Please Check The Type of Facility:</b> <input checked="" type="checkbox"/> <b>Rock Crusher</b> <input type="checkbox"/> <b>Concrete Crusher</b> |                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                 |
| <b>CONDITION NUMBER AND DESCRIPTION (<i>continued</i>)</b>                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                 |
| (1)(F)                                                                                                                                             | <p>Is there a rock crusher (or concrete crusher) authorized under Texas Health and Safety Code (THSC) § 382.0518, Preconstruction Permit, at this site?</p> <p>Have you withdrawn, within the previous 12 months, an application for authorization of a crushing facility under (THSC) § 382.0518, Preconstruction Permit, at this site?</p>                                                                       | <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A</p> <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A</p> |
| (1)(G)                                                                                                                                             | <p>Are the current registration form PI-1S entitled, "Registration for an Air Standard Permit", Table 17 and supporting information attached or mailed to the TCEQ, including Table 29 (if applicable), control devices and methods explanation, process flow diagram, process description, plot plan, and area map?</p> <p>Is the company's compliance history rating poor?</p>                                   | <p><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A</p> <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A</p> |
| (1)(H)                                                                                                                                             | <p>Has construction and/or operation begun on the facility?</p> <p>Is there a non operational crusher stored onsite?</p>                                                                                                                                                                                                                                                                                           | <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A</p> <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A</p> |
| (1)(I)                                                                                                                                             | <p>In accordance with 30 TAC § 116.614, Standard Permit Fees, was a \$900 fee sent to TCEQ Revenue Section?</p>                                                                                                                                                                                                                                                                                                    | <p><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A</p>                                                                                                         |
| (1)(J)                                                                                                                                             | <p>Will all facilities associated with this application for a standard permit comply with the conditions of Title 40 Code of Federal Regulations (40 CFR) Part 60, Subpart A, General Provisions and Subpart OOO, Standards of Performance for Nonmetallic Mineral Processing Plants?</p>                                                                                                                          | <p><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A</p>                                                                                                         |
| (1)(K)                                                                                                                                             | <p>Will these crushing facilities only process nonmetallic minerals or a combination of nonmetallic minerals as described in 40 CFR Part 60, Subpart OOO?</p>                                                                                                                                                                                                                                                      | <p><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A</p>                                                                                                         |
| (1)(L)                                                                                                                                             | <p>Is 30 TAC Chapter 101, Subchapter H, Division 3, Mass Emissions Cap and Trade Program; or 30 TAC Chapter 117, Control of Air Pollution from Nitrogen Compounds applicable to this plant?</p>                                                                                                                                                                                                                    | <p><input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A</p>                                                                                                         |
| (1)(M)                                                                                                                                             | <p>Will written records be kept for a rolling 24-month period at the site and made available at the request of any personnel from the TCEQ or any air pollution control program having jurisdiction?</p> <p>Will these written records be maintained onsite to show daily hourly operations and hourly throughput; road and work area cleaning and dust suppression logs; and stockpile dust suppression logs?</p> | <p><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A</p> <p><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A</p> |



## Air Quality Standard Permit for Permanent Rock and Concrete Crushers Registration Checklist

|                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Please Check The Type of Facility:</b> <input checked="" type="checkbox"/> <b>Rock Crusher</b> <input type="checkbox"/> <b>Concrete Crusher</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                  |
| <b>CONDITION NUMBER AND DESCRIPTION (<i>continued</i>)</b>                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                  |
| (1)(N)                                                                                                                                             | Will this crushing operation and related activities comply with applicable requirements of 30 TAC Chapter 101, Subchapter F, Emission Events and Scheduled Maintenance, Startup, and Shutdown Activities?                                                                                                                                                                                                                                                                                                        | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A                                                                                                                                                                                                                 |
| (1)(P)                                                                                                                                             | Have maintenance emissions been authorized? (Maintenance emissions are not included in this permit and must be approved under separate authorization.)<br><br>Have start-up and shutdown emissions been authorized? (Start-up and shutdown emissions that will exceed those expected during production operations must be approved under separate authorization.)<br><br>Will start-up and shutdown emissions exceed those expected during production operations?                                                | <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A<br><br><input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A<br><br><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A |
| (1)(Q)                                                                                                                                             | Do you intend to authorize any facilities located at the same site as this rock crusher, by 30 TAC Chapter 106, Subchapter E, Aggregate and Pavement or 30 TAC § 106.512, Stationary Engines and Turbines?                                                                                                                                                                                                                                                                                                       | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A                                                                                                                                                                                                                 |
| <b>PUBLIC NOTICE REQUIREMENTS - Detailed Public Notice Information will be Sent upon Determination of Technical Completeness</b>                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                  |
| (2)(B)(i)                                                                                                                                          | Will public notice be published no later than 30 days after the application is determined to be technically complete?                                                                                                                                                                                                                                                                                                                                                                                            | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A                                                                                                                                                                                                                 |
| <b>OPERATIONAL REQUIREMENTS</b>                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                  |
| (3)(A)                                                                                                                                             | Will the primary crusher throughput exceed 200 tons per hour?                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A                                                                                                                                                                                                                 |
| (3)(B)                                                                                                                                             | Will the crusher and all associated facilities, including engines and/or generator sets, but not including associated sources, be located less than 200 feet from the nearest property line, as measured from the point on the facility nearest the property line?                                                                                                                                                                                                                                               | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A                                                                                                                                                                                                                 |
| (3)(C)                                                                                                                                             | At the time this application is filed, will the crusher and all associated facilities, including engines and/or generator sets, but not including associated sources, be located at least 440 yards from any building which is in use as a single or multi-family residence, school, or place of worship?<br><br>(Distance shall be measured from the point on the facility nearest the residence, school, or place of worship to the point on the residence, school, or place of worship nearest the facility). | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A                                                                                                                                                                                                                 |



## Air Quality Standard Permit for Permanent Rock and Concrete Crushers Registration Checklist

|                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Please Check The Type of Facility:</b> <input checked="" type="checkbox"/> <b>Rock Crusher</b> <input type="checkbox"/> <b>Concrete Crusher</b> |                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                          |
| <b>OPERATIONAL REQUIREMENTS (continued)</b>                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                          |
| (3)(D)                                                                                                                                             | Will the crushing facilities (not including associated sources) be located at least 550 feet from any other rock crusher, concrete crusher, concrete batch plant, or hot mix asphalt plant?<br><br>Will the crusher operate at the same time as any other rock crusher, concrete batch plant, or hot mix asphalt plant within a 550 feet radius?                        | <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A<br><br><input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A |
| (3)(E)                                                                                                                                             | Will all associated sources, including but not limited to work areas, stockpiles, and roads (except for incidental traffic and the entrance and exit to the site), be located at least 100 ft. from the property line?                                                                                                                                                  | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A                                                                                                         |
| (3)(F)                                                                                                                                             | Will this crushing operation consist of any additional facilities other than one primary crusher, one secondary crusher, one vibrating grizzly, two screens, any conveyors, and one internal combustion engine (or combination of engines) of no more than 1,000 total horsepower?<br><br>(Equipment that is not a source of emissions does not require authorization.) | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A                                                                                                         |
| (3)(G)                                                                                                                                             | Will any of the crushers, associated facilities, and/or associated sources (excluding stockpiles) exceed 2,640 operating hours in any rolling 12-month period?                                                                                                                                                                                                          | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A                                                                                                         |
| (3)(H)                                                                                                                                             | Will any of the rock crusher/ concrete crusher or associated facilities operate during any time between one hour after official sunset to one hour before official sunrise?                                                                                                                                                                                             | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A                                                                                                         |
| (3)(I)                                                                                                                                             | Will all crushers be equipped with runtime meters and will the runtime meters be operating during crushing operations?                                                                                                                                                                                                                                                  | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A                                                                                                         |
| (3)(J)                                                                                                                                             | Will permanently mounted spray bars be installed at the inlet and outlet of all crushers, at all shaker screens, and at all material transfer points and used as necessary to maintain compliance with all TCEQ rules and regulations?                                                                                                                                  | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A                                                                                                         |
| (3)(K)                                                                                                                                             | Will opacity of emissions from any transfer point on belt conveyors or any screen exceed 10 percent, averaged over a six-minute period as determined using EPA Test Method 9?<br><br>Will opacity of emissions from any crusher exceed 15 percent, averaged over a six-minute period as determined using EPA Test Method 9?                                             | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A<br><br><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A |
| (3)(L)                                                                                                                                             | Will visible emissions leave the property for more than 30 seconds in duration in any six-minute period from the crusher(s), associated facilities, associated sources, and in-plant roads associated with the plant as determined using EPA Test Method 22?                                                                                                            | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A                                                                                                         |





## Air Quality Standard Permit for Permanent Rock and Concrete Crushers Registration Checklist

|                                                                                                                                                    |                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Please Check The Type of Facility:</b> <input checked="" type="checkbox"/> <b>Rock Crusher</b> <input type="checkbox"/> <b>Concrete Crusher</b> |                                                                                                                                                                                                                                                                                                   |
| <b>OPERATIONAL REQUIREMENTS <i>(continued)</i></b>                                                                                                 |                                                                                                                                                                                                                                                                                                   |
| (3)(M)                                                                                                                                             | Will all in-plant roads and active work areas that are associated with the operation of the crusher, associated facilities, and associated sources be treated at all times with any of the following:                                                                                             |
| (3)(M)(i)                                                                                                                                          | Covered with a material such as, but not limited to roofing shingles or tire chips? <span style="float: right;"> <input type="checkbox"/> YES   <input checked="" type="checkbox"/> NO   <input type="checkbox"/> N/A         </span>                                                             |
| (3)(M)(ii)                                                                                                                                         | Dust-suppressant chemicals? <span style="float: right;"> <input checked="" type="checkbox"/> YES   <input type="checkbox"/> NO   <input type="checkbox"/> N/A         </span>                                                                                                                     |
| (3)(M)(iii)                                                                                                                                        | Water? <span style="float: right;"> <input checked="" type="checkbox"/> YES   <input type="checkbox"/> NO   <input type="checkbox"/> N/A         </span>                                                                                                                                          |
| (3)(M)(iv)                                                                                                                                         | Paved with a cohesive hard surface that is maintained intact and cleaned? <span style="float: right;"> <input type="checkbox"/> YES   <input checked="" type="checkbox"/> NO   <input type="checkbox"/> N/A         </span>                                                                       |
| (3)(N)                                                                                                                                             | Will all stockpiles be sprinkled with water, dust-suppressant chemicals, or covered, as necessary, to minimize dust emissions? <span style="float: right;"> <input checked="" type="checkbox"/> YES   <input type="checkbox"/> NO   <input type="checkbox"/> N/A         </span>                  |
| (3)(O)                                                                                                                                             | Will raw material and product stockpile heights exceed 45 ft? <span style="float: right;"> <input type="checkbox"/> YES   <input checked="" type="checkbox"/> NO   <input type="checkbox"/> N/A         </span>                                                                                   |
| (3)(P)                                                                                                                                             | Will the crusher be equipped with a weigh hopper or scale belt that accurately determines the mass of material being crushed? <span style="float: right;"> <input checked="" type="checkbox"/> YES   <input type="checkbox"/> NO   <input type="checkbox"/> N/A         </span>                   |
| (3)(Q)                                                                                                                                             | Will the crusher remain at least 440 yards from any existing residence, school, or place of worship when moving to a different location onsite? <span style="float: right;"> <input checked="" type="checkbox"/> YES   <input type="checkbox"/> NO   <input type="checkbox"/> N/A         </span> |

Print Form

Reset Form



Texas Commission on Environment Quality

Table 17  
Rock Crushers

|                                                                           |                               |                                                 |                                              |                                       |                                                                     |            |
|---------------------------------------------------------------------------|-------------------------------|-------------------------------------------------|----------------------------------------------|---------------------------------------|---------------------------------------------------------------------|------------|
| <b>Please Complete the Following</b>                                      |                               |                                                 |                                              |                                       |                                                                     |            |
| Maximum operating schedule:                                               | 10                            | hours/day                                       | 5                                            | days/week                             | 52                                                                  | weeks/year |
| Does the facility operate at night?                                       |                               |                                                 |                                              |                                       | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |            |
| <b>Maximum Plant Production Rates:</b>                                    |                               |                                                 |                                              |                                       |                                                                     |            |
| <input checked="" type="checkbox"/> Primary Crusher                       | Type: Trakpactor 550          | 200                                             | tons/hour                                    | 520000                                | tons/year                                                           |            |
| <input type="checkbox"/> Secondary Crusher(s)                             | Type:                         |                                                 | tons/hour                                    |                                       | tons/year                                                           |            |
| <input type="checkbox"/> Tertiary Crusher(s)                              | Type:                         |                                                 | tons/hour                                    |                                       | tons/year                                                           |            |
| <b>The Following Pieces of Equipment will be Controlled as Shown:</b>     |                               |                                                 |                                              |                                       |                                                                     |            |
| Feed Hoppers:                                                             | <input type="checkbox"/> None | <input checked="" type="checkbox"/> Water Spray | <input type="checkbox"/> Suction to Baghouse | <input type="checkbox"/> Other: _____ |                                                                     |            |
| All Belt Transfer Points:                                                 | <input type="checkbox"/> None | <input checked="" type="checkbox"/> Water Spray | <input type="checkbox"/> Suction to Baghouse | <input type="checkbox"/> Other: _____ |                                                                     |            |
| Inlet of all Crushers:                                                    | <input type="checkbox"/> None | <input checked="" type="checkbox"/> Water Spray | <input type="checkbox"/> Suction to Baghouse | <input type="checkbox"/> Other: _____ |                                                                     |            |
| Outlet of all Crushers:                                                   | <input type="checkbox"/> None | <input checked="" type="checkbox"/> Water Spray | <input type="checkbox"/> Suction to Baghouse | <input type="checkbox"/> Other: _____ |                                                                     |            |
| All Shaker Screens:                                                       | <input type="checkbox"/> None | <input checked="" type="checkbox"/> Water Spray | <input type="checkbox"/> Suction to Baghouse | <input type="checkbox"/> Other: _____ |                                                                     |            |
| <b>If Water Sprays are used, Provide the Following Data:</b>              |                               |                                                 |                                              |                                       |                                                                     |            |
| Water Flow Rate (gpm): 8-19                                               |                               |                                                 |                                              |                                       |                                                                     |            |
| Water Pressure at the Nozzle (psi): 200                                   |                               |                                                 |                                              |                                       |                                                                     |            |
| Number of Nozzles at each location: 2-3                                   |                               |                                                 |                                              |                                       |                                                                     |            |
| <i>If baghouse is used, attach a Table 11 "Fabric Filters."</i>           |                               |                                                 |                                              |                                       |                                                                     |            |
| Average material moisture content (%):                                    |                               |                                                 |                                              |                                       |                                                                     |            |
| Maximum acreage covered by stockpiles (acres): 1                          |                               |                                                 |                                              |                                       |                                                                     |            |
| Stockpiles have the following controls:                                   |                               | <input type="checkbox"/> None                   | <input checked="" type="checkbox"/> Water    | <input type="checkbox"/> Chemical     |                                                                     |            |
| In-plant roads will be:                                                   |                               | <input type="checkbox"/> Paved and Vacuumed     | <input type="checkbox"/> Paved and Swept     | <input type="checkbox"/> Oiled        |                                                                     |            |
| <input checked="" type="checkbox"/> Sprinkled with Water and/or Chemicals |                               | <input type="checkbox"/> Other: _____           |                                              |                                       |                                                                     |            |

PRINT FORM

RESET FORM

**Texas Commission on Environmental Quality**  
**Table 29 Reciprocating Engines**

| <b>I. Engine Data</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |                           |        |                                 |      |                                         |      |                                |      |                                                                     |      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------------|--------|---------------------------------|------|-----------------------------------------|------|--------------------------------|------|---------------------------------------------------------------------|------|
| Manufacturer:<br>Scania                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       | Model No.<br>DC13 Tier 4f |        | Serial No.<br>Unkown            |      | Manufacture Date:                       |      |                                |      |                                                                     |      |
| Rebuilds Date:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | No. of Cylinders:<br>6    |        | Compression Ratio:<br>17.5:1    |      | EPN:<br>DC13 085A                       |      |                                |      |                                                                     |      |
| <b>Application:</b> <input checked="" type="checkbox"/> Gas Compression <input type="checkbox"/> Electric Generation <input type="checkbox"/> Refrigeration <input type="checkbox"/> Emergency/Stand by<br><input checked="" type="checkbox"/> 4 Stroke Cycle <input type="checkbox"/> 2 Stroke Cycle <input type="checkbox"/> Carbureted <input type="checkbox"/> Spark Ignited <input type="checkbox"/> Dual Fuel <input type="checkbox"/> Fuel Injected<br><input checked="" type="checkbox"/> Diesel <input type="checkbox"/> Naturally Aspirated <input type="checkbox"/> Blower /Pump Scavenged <input type="checkbox"/> Turbo Charged and I.C. <input checked="" type="checkbox"/> Turbo Charged<br><input type="checkbox"/> Intercooled <input type="checkbox"/> I.C. Water Temperature <input type="checkbox"/> Lean Burn <input type="checkbox"/> Rich Burn |       |                           |        |                                 |      |                                         |      |                                |      |                                                                     |      |
| <b>Ignition/Injection Timing:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                           |        | Fixed:                          |      | Variable: It is variable and not public |      |                                |      |                                                                     |      |
| Manufacture Horsepower Rating: 500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |                           |        | Proposed Horsepower Rating: 500 |      |                                         |      |                                |      |                                                                     |      |
| Discharge Parameters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |                           |        |                                 |      |                                         |      |                                |      |                                                                     |      |
| Stack Height (Feet)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       | Stack Diameter (Feet)     |        | Stack Temperature (°F)          |      | Exit Velocity (FPS)                     |      |                                |      |                                                                     |      |
| 16 feet 9 inches                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       | 0.5 feet                  |        | 900                             |      | 150                                     |      |                                |      |                                                                     |      |
| <b>II. Fuel Data</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |                           |        |                                 |      |                                         |      |                                |      |                                                                     |      |
| Type of Fuel: <input type="checkbox"/> Field Gas <input type="checkbox"/> Landfill Gas <input type="checkbox"/> LP Gas <input type="checkbox"/> Natural Gas <input type="checkbox"/> Digester Gas <input checked="" type="checkbox"/> Diesel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |                           |        |                                 |      |                                         |      |                                |      |                                                                     |      |
| Fuel Consumption (BTU/bhp-hr): 2879                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |                           |        | Heating Value: 19400 BTU/lb     |      |                                         |      | Lower Heating Value: 18300 BTU |      |                                                                     |      |
| Sulfur Content (grains/100 scf - weight %): <1.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |                           |        |                                 |      |                                         |      |                                |      |                                                                     |      |
| <b>III. Emission Factors (Before Control)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |                           |        |                                 |      |                                         |      |                                |      |                                                                     |      |
| NO <sub>x</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       | CO                        |        | SO <sub>2</sub>                 |      | VOC                                     |      | Formaldehyde                   |      | PM <sub>10</sub>                                                    |      |
| g/hp-hr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ppmv  | g/hp-hr                   | ppmv   | g/hp-hr                         | ppmv | g/hp-hr                                 | ppmv | g/hp-hr                        | ppmv | g/hp-hr                                                             | ppmv |
| 0.298                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 17.29 | 2.61                      | 151.38 | <0.002                          | <1   | 0.1417                                  | 8.22 | <0.001                         | <0.1 | 0.0149                                                              | 0.86 |
| Source of Emission Factors: <input type="checkbox"/> Manufacturer Data <input type="checkbox"/> AP-42 <input checked="" type="checkbox"/> Other (specify): State of California, Title 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |                           |        |                                 |      |                                         |      |                                |      |                                                                     |      |
| <b>IV. Emission Factors (Post Control)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |                           |        |                                 |      |                                         |      |                                |      |                                                                     |      |
| NO <sub>x</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       | CO                        |        | SO <sub>2</sub>                 |      | VOC                                     |      | Formaldehyde                   |      | PM <sub>10</sub>                                                    |      |
| g/hp-hr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ppmv  | g/hp-hr                   | ppmv   | g/hp-hr                         | ppmv | g/hp-hr                                 | ppmv | g/hp-hr                        | ppmv | g/hp-hr                                                             | ppmv |
| 0.142                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 8.22  | 0.149                     | 8.65   | <0.002                          | <1   | 0.05597                                 | 3.46 | <0.001                         | <0.1 | 0.0149                                                              | 0.86 |
| Method of Emission Control: <input type="checkbox"/> NSCR Catalyst <input type="checkbox"/> Lean Operation <input type="checkbox"/> Parameter Adjustment<br><input type="checkbox"/> Stratified Charge <input type="checkbox"/> JLCC Catalyst <input checked="" type="checkbox"/> Other (Specify): SCR and EGR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |                           |        |                                 |      |                                         |      |                                |      |                                                                     |      |
| <b>Note:</b> Must submit a copy of any manufacturer control information that demonstrates control efficiency.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |                           |        |                                 |      |                                         |      |                                |      |                                                                     |      |
| Is Formaldehyde included in the VOCs?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |                           |        |                                 |      |                                         |      |                                |      | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |      |
| <b>V. Federal and State Standards (Check all that apply)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |                           |        |                                 |      |                                         |      |                                |      |                                                                     |      |
| <input type="checkbox"/> NSPS JJJJ <input type="checkbox"/> MACT ZZZZ <input checked="" type="checkbox"/> NSPS IIII <input type="checkbox"/> Title 30 Chapter 117 - List County: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |                           |        |                                 |      |                                         |      |                                |      |                                                                     |      |
| <b>VI. Additional Information</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                           |        |                                 |      |                                         |      |                                |      |                                                                     |      |
| 1. Submit a copy of the engine manufacturer's site rating or general rating specification data.<br>2. Submit a typical fuel gas analysis, including sulfur content and heating value. For gaseous fuels, provide mole percent of constituents.<br>3. Submit description of air/fuel ratio control system (manufacturer information is acceptable).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |                           |        |                                 |      |                                         |      |                                |      |                                                                     |      |

**Reset Form**

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