

From: Matt Wilmot <mwilmot@atei97.com>
Sent: Tuesday, November 18, 2025 2:03 PM
To: Andres Targa
Cc: Ed vonDran
Subject: RE: Notice of Deficiency: 181766 398884 Raider Aggregates LLC
Attachments: Raider Aggregates Draft Build Optimized mw 11.18.25 R1.pdf

Categories: GTG WCC

Attached is the altered and complete version of our entry.

Thank you for your attention to this matter.

Matt Wilmot, GIT
Project Geologist



Office: 210-930-2834

Mobile: 210-386-1474

Email: mwilmot@atei97.com

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San Antonio, TX 78217
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TBPE F-8920; Arch BR-1889; TBPG 50647

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From: Andres Targa <Andres.Targa@tceq.texas.gov>
Sent: Tuesday, November 18, 2025 1:51 PM
To: Ed vonDran <evondran@atei97.com>
Cc: Matt Wilmot <mwilmot@atei97.com>; 90TRANSPORTATION@GMAIL.COM
Subject: Notice of Deficiency: 181766 398884 Raider Aggregates LLC

Dear Mr. Muniz:

Upon evaluation of the above-referenced application, we have determined that your application is deficient and Raider Aggregates Limited Liability Company must provide additional information to ensure that the requirements for obtaining a permit are met. Please furnish the following information within 5 days:

Air Quality Standard Permit Checklist for Permanent Rock and Concrete Crushers

- Based on your response regarding Maintenance Startup and Shutdown (MSS) emissions, please update your answer from "N/A" to "No" for condition (1)(P) to ensure that you are complying with MSS emissions.

TCEQ Form 20335

- Please update your response from "No" to "Yes" for rule 116.610(a)(3) to ensure that you are complying with Title 40 Code of Federal Regulations Part (CFR) 60, New Source Performance Standards.

After receipt of all the additional information, we will continue the review of your application. If the information furnished in response to this notice results in the need for further clarification or additional information, we will notify you. Please note that the applicant Raider Aggregates Limited Liability Company is required to furnish all information to demonstrate that the facility or source will comply with all applicable federal and state rules and statutes.

Failure to submit all of the requested information within 5 days of the date of this notification may result in a recommendation to void your application.

Sincerely,

Andres Targa Mallona

Mechanical New Source Review

Environmental Permit Specialist

Air Permits Division

Texas Commission on Environmental Quality

Mail Code: MC-163, PO Box 13087

Austin, Texas 78711-3087

Direct Line: (512) 239-6107



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November 18, 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, crushed via impact crusher, 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).

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

EPN 1 – Scania DC13 Diesel Engine Exhaust

The Trakpactor 550 is powered by a Scania DC13 Tier 4 Final diesel engine rated at 494 horsepower. This engine drives the crusher and associated hydraulic systems. Emissions from this source include nitrogen oxides (NOx), carbon monoxide (CO), volatile organic compounds (VOC), sulfur dioxide (SO₂), and particulate matter (PM). The unit is certified to meet Tier 4 Final standards under 40 CFR 60 Subpart IIII for nonroad compression-ignition engines and is equipped with selective catalytic reduction (SCR) and diesel oxidation catalyst (DOC) controls.



No MACT Subpart ZZZZ requirements apply because this is a portable engine that does not remain in one location for more than twelve months.

EPN 2 – Primary Feed Hopper

Material is delivered to the crusher via a steel hopper that receives caliche or aggregate from a front-end loader or excavator. The drop from the loader bucket into the hopper is a potential source of particulate emissions. Fugitive dust (PM_{10} and $PM_{2.5}$) is controlled by a water spray bar positioned along the hopper lip and by minimizing drop height during loading operations. The hopper is designed with abrasion-resistant liners to reduce material buildup and associated dust generation.

EPN 3 – Vibrating Grizzly Feeder

The vibrating grizzly feeder transfers material from the hopper into the crusher while removing fine material prior to crushing. This process can generate minor dust emissions during agitation and material drop. A spray system positioned above the feeder maintains material moisture and prevents visible emissions. The feeder is subject to 40 CFR 60 Subpart OOO requirements for nonmetallic mineral processing plants.

EPN 4 – Impact Crusher (Trakpactor 550)

The main emission source at the site is the impact crusher itself. Material enters the crusher chamber and is broken down by a twin-apron, four-bar impactor. Crushing releases fine particulate matter (PM_{10} and $PM_{2.5}$). These emissions are controlled by multiple atomizing spray nozzles mounted inside the crusher housing, flexible skirting around transfer points, and an optional enclosure. The unit operates under NSPS Subpart OOO for performance and opacity limits.

EPN 5 – Crusher Discharge Conveyor #1

After crushing, material is transferred from the crusher onto the first discharge conveyor. Dust emissions occur as material drops onto the belt and as it travels along the conveyor. Control measures include full-length belt skirting, covered transfer points, and water sprays installed at both loading and discharge ends of the belt. The conveyor system complies with Subpart OOO and AP-42 Section 11.19.2 emission guidance.

EPN 6 – Vibratory Screen #1 (Primary)

The first screening unit separates material by size into coarse and fine fractions. Screening activity generates fine dust from vibration and material agitation. Water spray bars located above each deck reduce airborne particulate. The screen is covered under 40 CFR 60 Subpart OOO and is limited to 10% opacity per NSPS standards. Maintenance logs are kept for each spray system inspection.

EPN 7 – Vibratory Screen #2 (Secondary/Fines)

The secondary screening deck further classifies material into finer product sizes. Emissions consist of PM_{10} and $PM_{2.5}$ from material agitation. Control measures mirror those of the primary screen, including active spray bars and belt skirting at feed and discharge points. All equipment is operated and maintained to ensure compliance with opacity limits.

EPN 8 – Transfer Conveyor #2

This conveyor moves screened material from the first to the second screen or to a different processing line. The main emissions occur from material falling onto and off the conveyor. These are minimized by skirting and misting systems that apply water directly at transfer points. Periodic inspections ensure adequate belt tension and spray operation.

EPN 9 – Final Product Conveyor #3





The final conveyor discharges finished crushed and screened product to the stockpile. Water spray bars positioned at the head pulley provide continuous wet suppression during active operation. Belt covers or partial enclosures may be installed to limit windblown dust. This point represents the last material transfer before storage.

EPN 10 – Stockpile Drop Point / Loading Area

Crushed material exits the conveyor and falls onto the finished product stockpile. This drop can generate dust emissions, particularly during dry conditions. Stockpile dust is controlled with continuous or intermittent spray systems at discharge points and with surface wetting. Stockpiles are built with low slope angles and may be stabilized using crusting agents or covered if inactive. Windbreaks can be used for added control.

EPN 11 – Pit Excavation and Loading Operations

The pit area generates dust during excavation, loading, and hauling of raw caliche or aggregate material to the crusher. Emissions are managed through watering disturbed areas, minimizing drop heights when loading trucks, and limiting disturbed acreage. Completed pit sections are stabilized when inactive to minimize dust emissions.

Non-EPN Fugitive Emission Sources – Unpaved Roads

Per TCEQ guidance, fugitive emissions from **unpaved haul and access roads** are not listed as individual EPNs because they are not considered discrete process emission points. These emissions are instead categorized as site-wide fugitive sources and addressed through best management practices. Dust from unpaved roads is controlled through the use of water trucks, speed limits of 15 mph, and, when necessary, environmentally safe dust suppressants. Watering frequency is adjusted according to traffic levels and weather conditions. Records of road watering and control maintenance are retained for compliance documentation but do not require individual EPN designation.

Control System Description (Not an EPN)

The water spray system serves as the primary control mechanism for dust suppression across all emission points. The system operates at 3 bar pressure and 24 liters per minute, feeding multiple atomizing nozzles positioned over the crusher, screens, conveyors, and transfer points. The water system includes frost protection, pump, and manifold assemblies. This system ensures compliance with visible emission and particulate standards under the TCEQ Standard Permit.

Recordkeeping and Monitoring

Daily logs are maintained for all watering events, suppressant applications, and equipment maintenance activities. Each emission point is visually inspected per shift to confirm effective dust control. Any failures in control systems are corrected immediately, and corrective actions are documented. All records are retained onsite for a rolling 24-month period and made available to the TCEQ upon request.

MAINTENANCE, START-UP, AND SHUTDOWN

Startup and shutdown emissions for the Powerscreen Trakpactor 550 crusher with Scania DC13 Tier 4 Final engine will not exceed emissions during normal production operations. The engine is equipped with SCR, EGR, DOC, and AMOX emission controls that function during all operating modes including startup and shutdown. Startup procedure involves:

1. Engine warm-up period (approximately 5-10 minutes)





2. Gradual increase to operating temperature
3. SCR system reaches operational temperature
4. No crushing activity occurs until engine reaches normal operating parameters

Engine will be shut off during maintenance.

Shutdown is controlled and emissions during shutdown are lower than production emissions as the engine idles down before shutoff.

No separate MSS authorization is required because emissions during maintenance, start-up, and shutdown will not exceed those of normal operations.

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.

A handwritten signature in black ink, appearing to read "Harold E. von Dran, Jr.", written over a horizontal line.

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

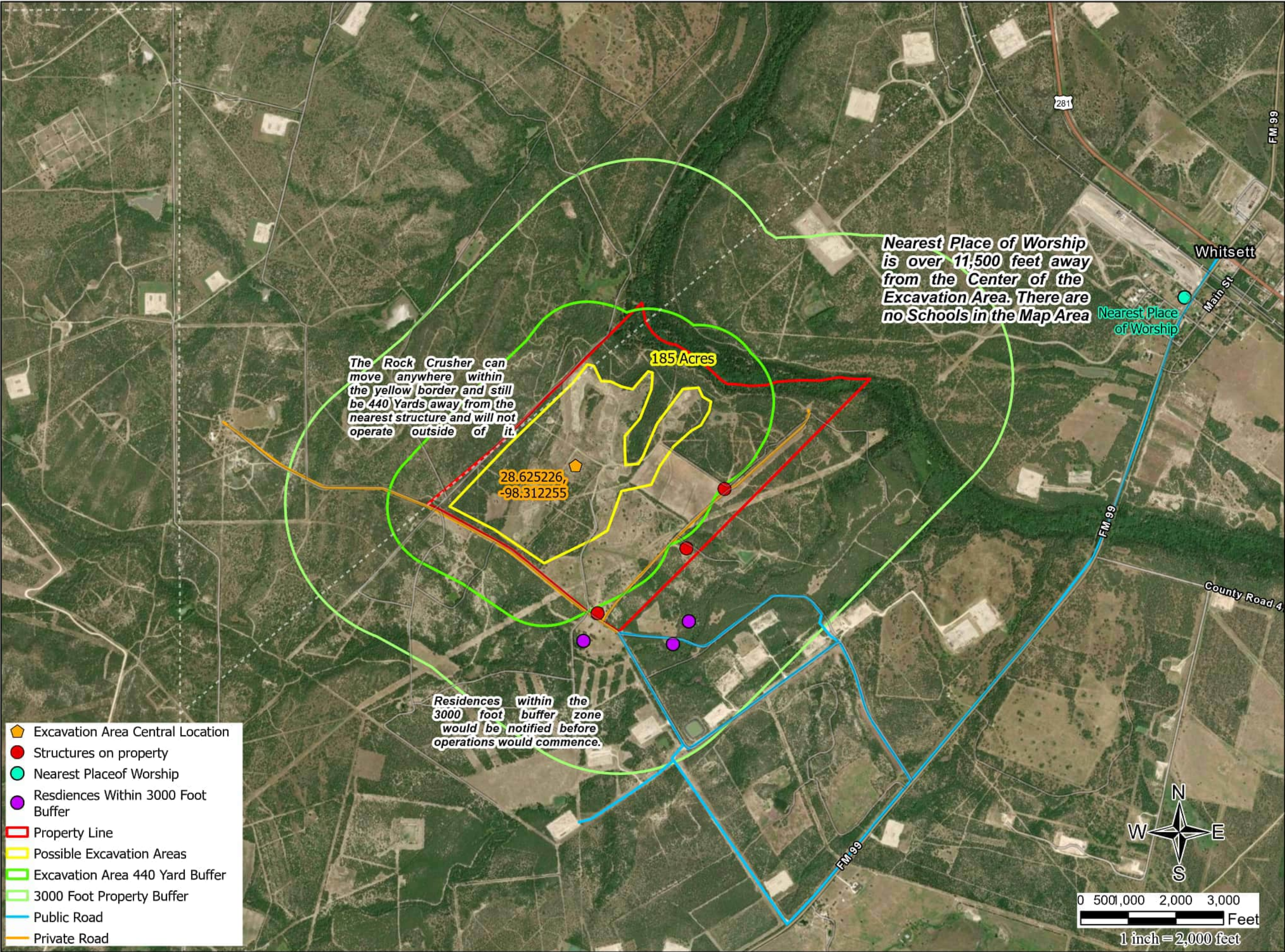
EPN #	EPN	Description	AP-42 EF (lb/ton) controlled ¹	AP-42 EF (lb/hp-hr) ¹	AP-42 EF (lb/VMT) ¹	*Engine Exhaust AP-42 ²	EF (g/kWh)	
EPN1	Engine Exhaust	Rock Crushing Activities	--	Various	--	Nox	0.4	
EPN2	Primary Feed Hopper	Material drop	0.002	--	--	CO	3.5	
EPN3	Vibrating Grizzly Feeder	Screen/feeder	0.002	--	--	NMHC	0.19	
EPN4	Impact Crusher	Crusher	0.0054	--	--	PM10	0.02	
EPN5	Conveyor #1	Conveyor transfer	0.0015	--	--			
EPN6	Primary Screen	Screen	0.0022	--	--	**Unpaved Roads AP-42	EF (lb/VMT) uncontrolled	80% Controlled
EPN7	Conveyor #2	Conveyor transfer	0.0015	--	--	PM10	1.5	0.3
EPN8	Secondary Screen	Screen	0.0022	--	--	PM2.5	0.15	0.03
EPN9	Conveyor #3	Conveyor transfer	0.0015	--	--	TSP	4.90	0.98
EPN10	Stockpile Drop Points	Stockpile loading	0.0025	--	--			
EPN11	Pit Excavation & Loading	Pit/loading	0.002	--	--			
FUG (Non EPN)	Unpaved Roads	Roads that are unpaved	--	--	Various**			
hours operating per year		2640						
Facility Coordinates	Northing	28.62523	Easting	-98.312255	Elevation	214		
		¹ TCEQ Technical Guidance and U.S. EPA AP-42, Section 11.19.2						
		² From the State of California Resources Board						

[illegible]

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											
EPN-1 Emissions Calculation											
((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										
EPN 2-11 Emissions Calculations											
EPN	Source	Process Type	Pollutant	TPH	EF (lb/ton)	Uncontrolled lb/hr	tons/hr conversion factor	tons/hr	Hours/yr	Uncontrolled TPY	Controlled TPY 80%
	2 Primary Feed Hopper	Material drop	PM10	200	0.002	0.4	0.0005	0.0002	2640	0.528	0.11
	Vibrating Grizzly										
	3 Feeder	Screen/feeder	PM10	200	0.002	0.4	0.0005	0.0002	2640	0.528	0.11
	4 Impact Crusher	Crusher	PM10	200	0.0054	1.08	0.0005	0.00054	2640	1.4256	0.29
	5 Conveyor #1	Conveyor transfer	PM10	200	0.0015	0.3	0.0005	0.00015	2640	0.396	0.08
	6 Primary Screen	Screen	PM10	200	0.0022	0.44	0.0005	0.00022	2640	0.5808	0.12
	7 Conveyor #2	Conveyor transfer	PM10	200	0.0015	0.3	0.0005	0.00015	2640	0.396	0.08
	8 Secondary Screen	Screen	PM10	200	0.0022	0.44	0.0005	0.00022	2640	0.5808	0.12
	9 Conveyor #3	Conveyor transfer	PM10	200	0.0015	0.3	0.0005	0.00015	2640	0.396	0.08
	10 Stockpile Drop Points	Stockpile loading	PM10	200	0.0025	0.5	0.0005	0.00025	2640	0.66	0.13
	Pit Excavation &										
	11 Loading	Pit/loading	PM10	200	0.002	0.4	0.0005	0.0002	2640	0.528	0.11

Exhibit B

Facility Maps



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Raider Aggregates Area Map

Property Southwest of Whitsett Tx
(~480 acre area)
Live Oak County

Project Number:
S250416-927

Date: 11/7/2025

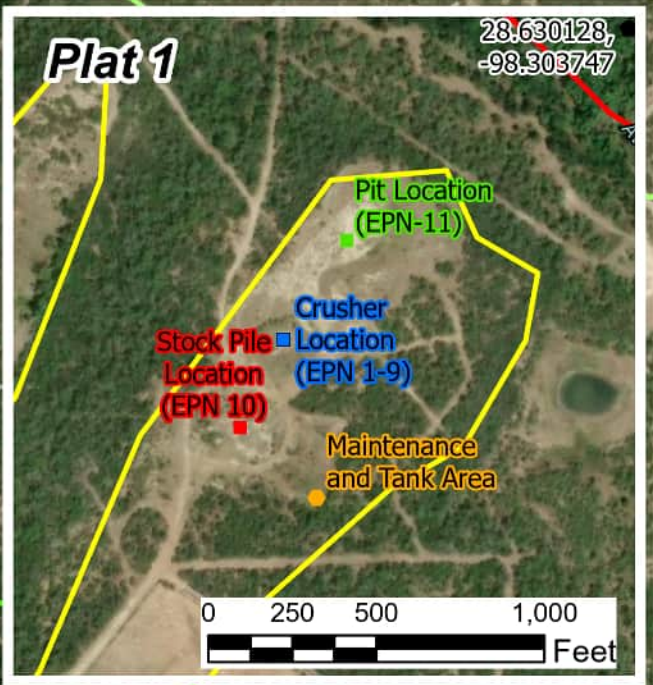
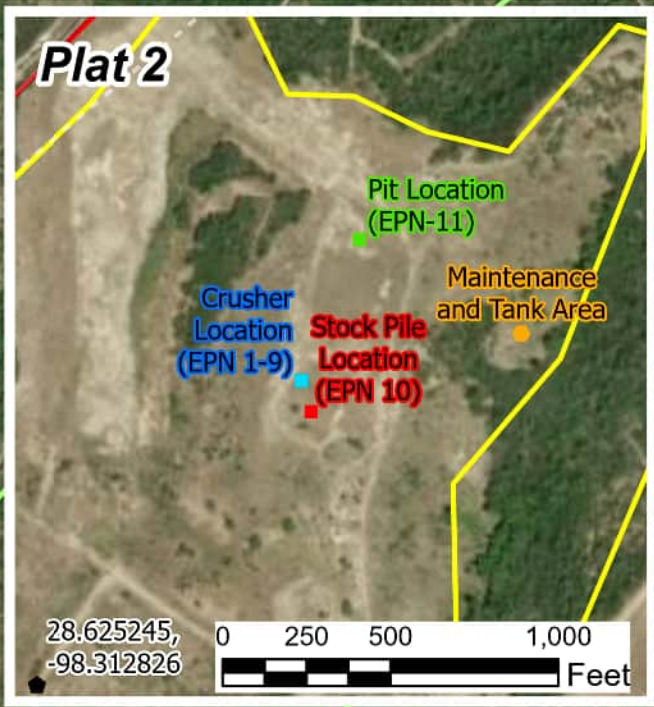
Project MGR: EvD

Drawn By: Matt Wilmot

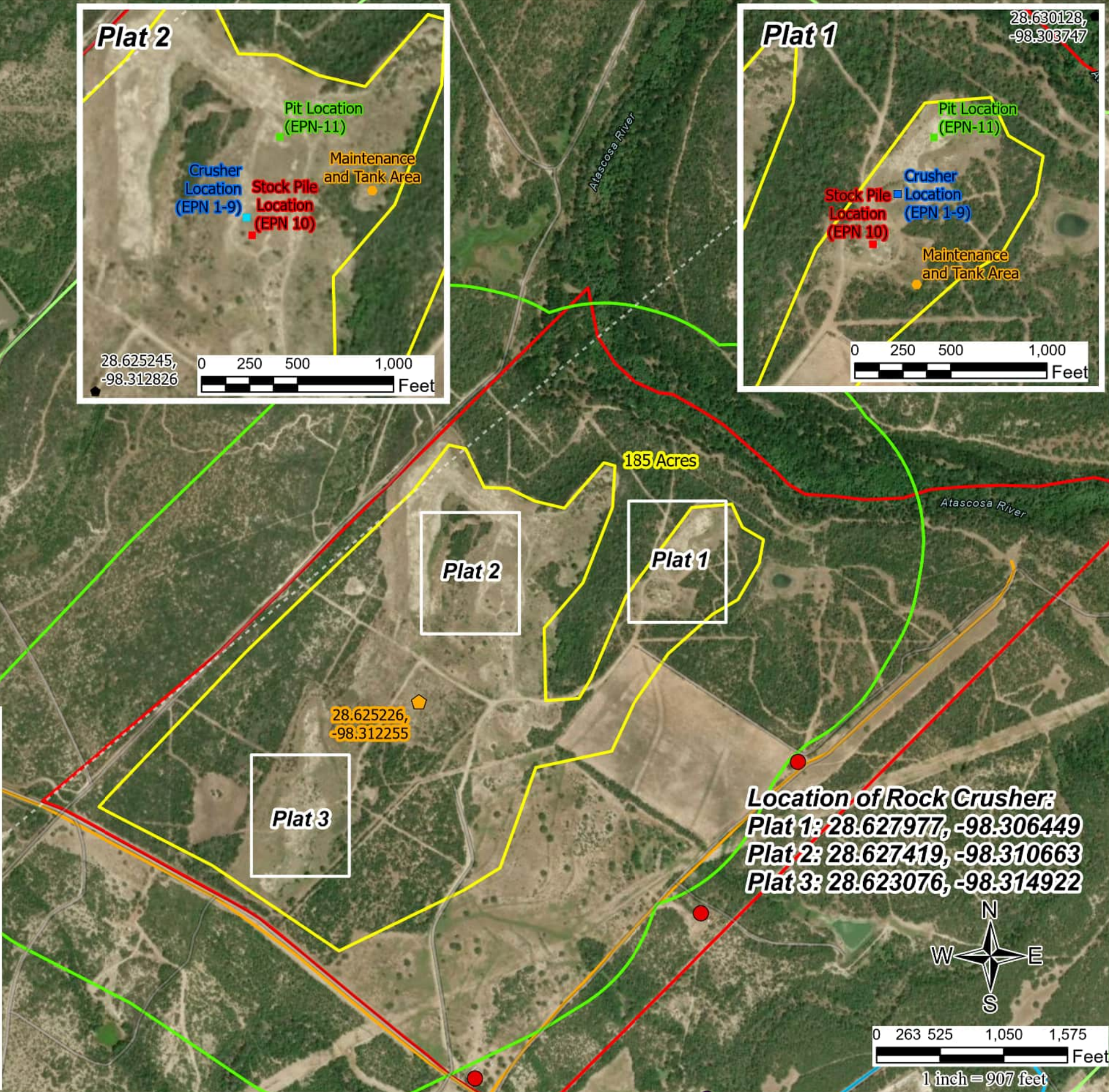
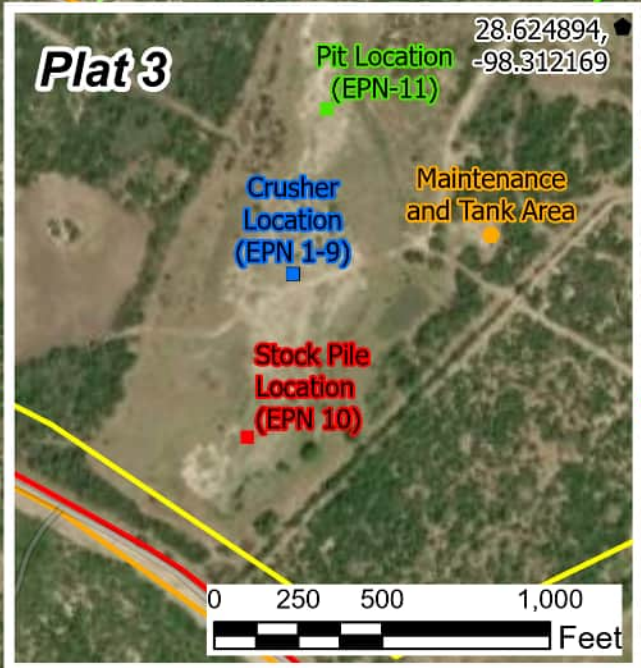
FIGURE

Map

- Excavation Area Central Location
- Property Line
- Possible Excavation Areas
- Excavation Area 440 Yard Buffer
- 3000 Foot Property Buffer
- Public Road
- Private Road



This Map represents three examples of where the Rock Crusher could be assembled.



Location of Rock Crusher:
Plat 1: 28.627977, -98.306449
Plat 2: 28.627419, -98.310663
Plat 3: 28.623076, -98.314922



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 San Antonio, TX 78217

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Raider Aggregates Plat Map	Property Southwest of Whitsett Tx (~480 acre area) Live Oak County
Project Number: S250416-927	
Date:	11/7/2025
Project MGR:	EvD
Drawn By:	Matt Wilmot
FIGURE Map	

(Satellite Image (Hybrid Street))

(Satellite Image (Hybrid Street))

028.601028° N
098.333101° W

(Satellite Image (Hybrid Street))

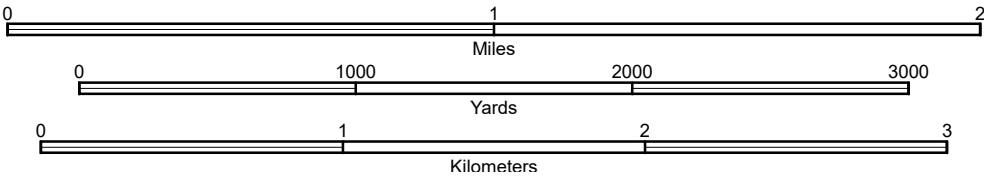
Produced by Trimble Terrain Navigator Pro
Topography based on USGS 1:12,000 Maps

North American 1983 Datum (NAD83)

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

Declination
GN
GN 0.34° E
MN 3.96° E

(Satellite Image (Hybrid Street))
SCALE 1:25000



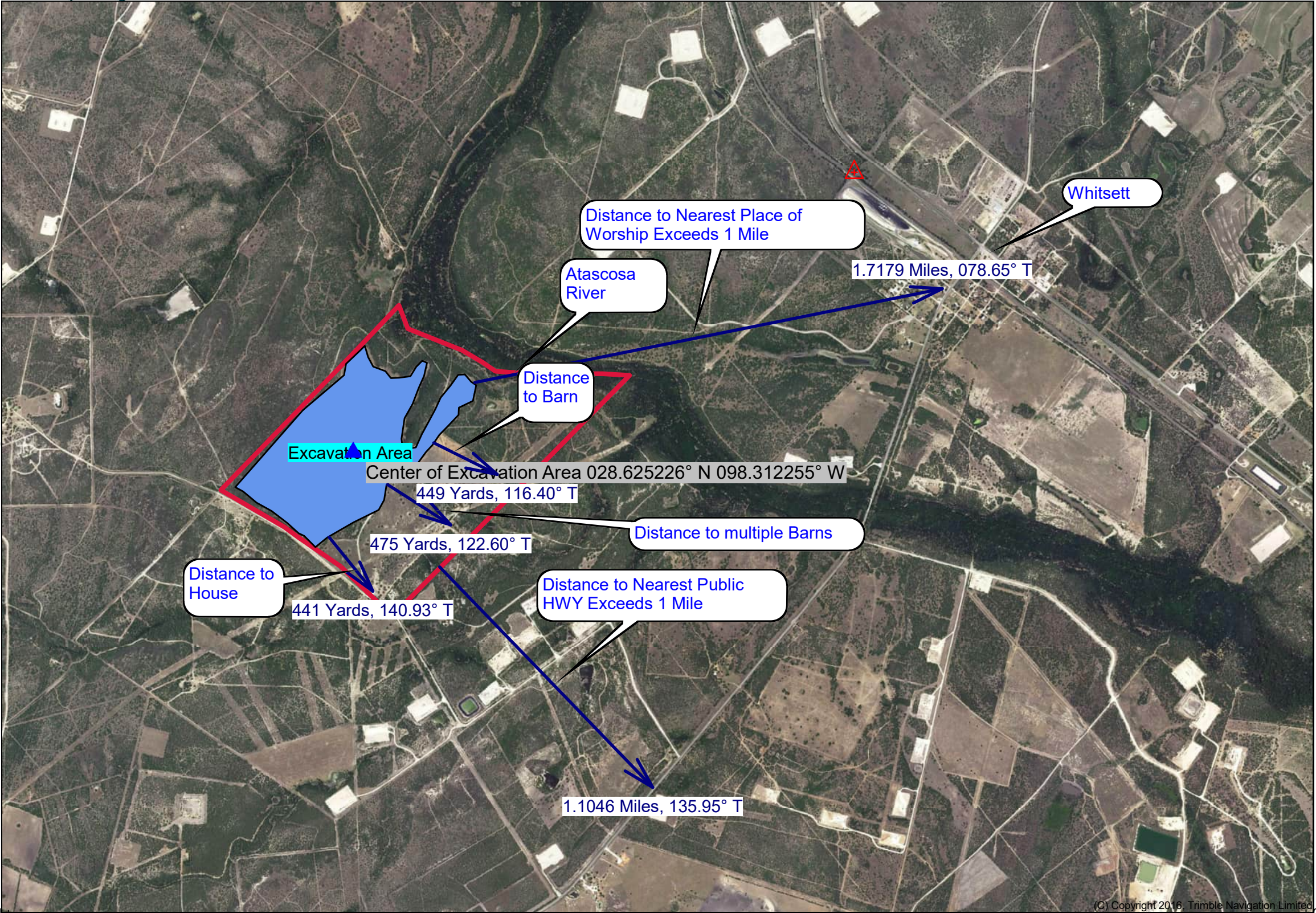
CONTOUR INTERVAL UNKNOWN FT

(C) Copyright 2016, Trimble Navigation Limited
Printed: Thu Nov 06, 2025

028.601028° N
098.255107° W

(Satellite Image (Hybrid Street))

28098-E3-TM-012
WILLOW HOLLOW TANK, TX
MAY 16, 2022



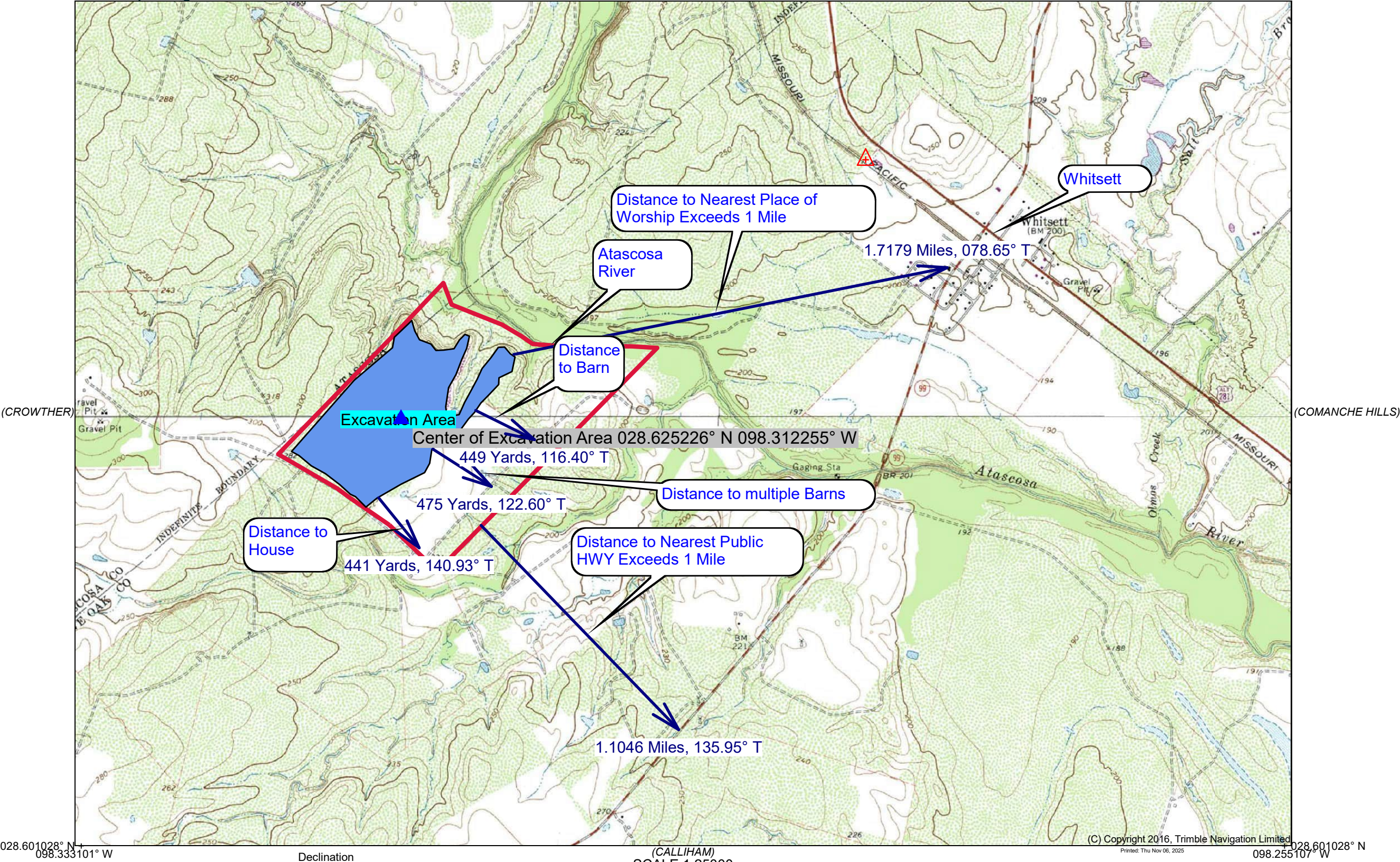
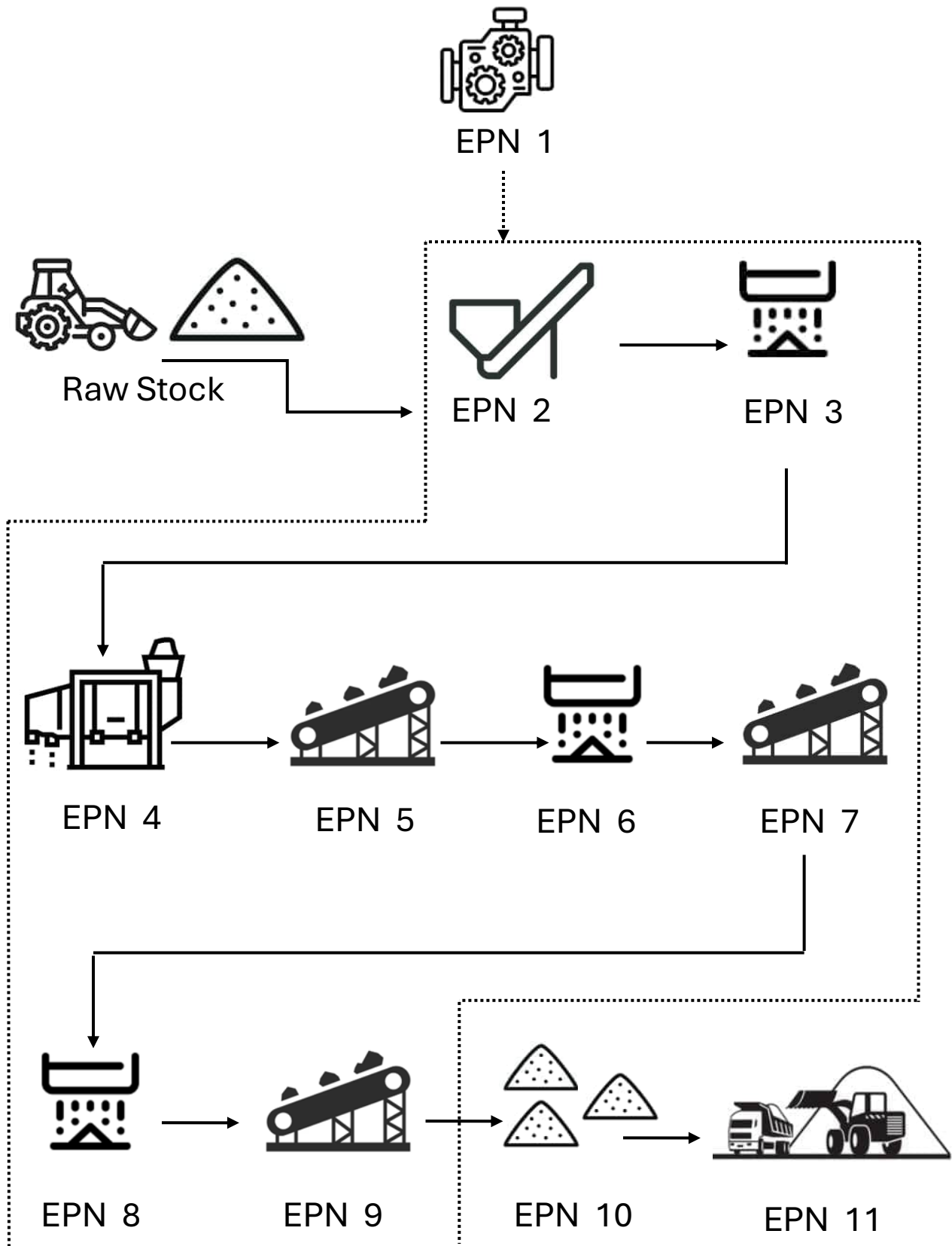


Exhibit C

Process Flow Diagram

EPN FLOW DIAGRAM



Comprehensive EPN List – Trakpactor 550 Rock Crusher Project

Facility: Portable Rock Crusher (Powerscreen Trakpactor 550)

Permit Type: TCEQ Standard Permit for Rock and Concrete Crushers

Prepared For: Form PI-1S / Form 20335 Attachment – EPN Summary Table

EPN	Source Name / Description	Emission Type / Pollutant	Control Device / Method	Regulatory Reference
1	Scania DC13 Diesel Engine Exhaust (Tier 4F, 494 hp)	NOx, CO, VOC, PM, SO2	Built-in engine controls (SCR, DOC); Tier 4F compliant	40 CFR 60 Subpart IIII; Nonroad CI Engine Standards
2	Primary Feed Hopper	PM10, PM2.5 (Fugitive Dust)	Water sprays at hopper lip	AP-42 11.19.2; NSPS OOO
3	Vibrating Grizzly Feeder	PM10, PM2.5	Spray bar over feeder	AP-42 11.19.2; NSPS OOO
4	Impact Crusher (Trakpactor 550)	PM10, PM2.5	Internal water sprays, housing enclosure	AP-42 11.19.2; 40 CFR 60 Subpart OOO
5	Crusher Discharge Conveyor #1	PM10, PM2.5	Spray nozzles, belt skirting	AP-42 11.19.2; 40 CFR 60 Subpart OOO
6	Vibratory Screen #1 (Primary)	PM10, PM2.5	Spray bar at screen decks	AP-42 11.19.2; 40 CFR 60 Subpart OOO
7	Transfer Conveyor #2	PM10, PM2.5	Full skirting, spray bar	AP-42 11.19.2; 40 CFR 60 Subpart OOO
8	Vibratory Screen #2 (Secondary/Fines)	PM10, PM2.5	Spray bar at screen decks	AP-42 11.19.2; 40 CFR 60 Subpart OOO
9	Final Product Conveyor #3	PM10, PM2.5	Spray bar at discharge, skirting	AP-42 11.19.2; 40 CFR 60 Subpart OOO

EPN	Source Name / Description	Emission Type / Pollutant	Control Device / Method	Regulatory Reference
10	Stockpile Drop Point / Loading	PM10, PM2.5 (Fugitive)	Water sprays at conveyor discharge, surface wetting	AP-42 13.2.4 (Aggregate Handling)
11	Pit Excavation and Loading Operations	PM10, PM2.5 (Fugitive)	Watering disturbed areas, minimize drop heights	AP-42 13.2.2

Non-EPN Fugitive Emission Sources – Unpaved Roads

Per TCEQ guidance, fugitive emissions from **unpaved haul and access roads** are not listed as individual EPNs because they are not considered discrete process emission points. These emissions are treated as site-wide fugitive sources controlled through best management practices. Controls include water truck application, a 15 mph speed limit, and use of dust suppressants during dry periods. Records of watering and maintenance are retained for compliance documentation but do not require EPN designation.

Control System Description (Not an EPN)

The water spray system serves as the primary control mechanism for dust suppression across all emission points. Operating at 3 bar pressure and 24 L/min, it feeds multiple atomizing nozzles positioned over the crusher, screens, conveyors, and transfer points. The water system includes frost protection, pump, and manifold assemblies to maintain consistent performance.

Recordkeeping and Monitoring

Daily logs document watering events, suppressant applications, and equipment maintenance. Each emission point is visually inspected per shift to verify effective control. Any malfunction or failure is corrected immediately, and actions are recorded. Records are maintained for a rolling 24-month period and made available to TCEQ upon request.

Process Description

Material handling at the site begins with caliche or aggregate being loaded from the **pit area (EPN 11)** into the **primary feed hopper (EPN 2)** using a front-end loader or excavator. From the hopper, material passes over the **vibrating grizzly feeder (EPN 3)**, which removes finer material and regulates flow into the **impact crusher (EPN 4)**. The Trakpactor 550 impact crusher reduces the feed material to the desired size using a twin-apron, four-bar impactor system.

The crushed material exits the crusher onto the **first conveyor (EPN 5)**, which transfers material to the **primary screen (EPN 6)**. This screen separates the crushed aggregate into multiple size fractions. Oversized material may be recirculated through the system for additional crushing if required, while correctly sized material is transferred via the **second conveyor (EPN 7)** to the **secondary screen (EPN 8)** for further refinement.

The secondary screen produces the final graded product, which is conveyed by the **final product conveyor (EPN 9)** to the **stockpile drop points (EPN 10)**. Each conveyor and screen is equipped with water spray bars, belt skirting, and covered transfer points to control particulate emissions. Water spray systems operate continuously during production to minimize visible dust emissions.

Final products are temporarily stored in multiple **aggregate stockpiles** near the discharge points of each conveyor. The piles are sprayed or misted with water to minimize windblown dust and shaped with stable slopes. Material from the stockpiles is later loaded into trucks for off-site delivery. The single **Scania DC13 diesel engine (EPN 1)** powers the crusher and associated equipment. Dust from pit excavation and material loading (EPN 11) is minimized through water application and operational controls.

All material handling and crushing operations are conducted under the requirements of **40 CFR Part 60, Subpart OOO** (Standards of Performance for Nonmetallic Mineral Processing Plants). Fugitive emissions from unpaved haul roads are addressed through site-wide best management practices and are not designated as individual EPNs under TCEQ guidance.

Simplified Process Flow Sequence (EPN Reference)

1. **EPN 1** – Scania DC13 Engine (Power Source)
2. **EPN 2** – Feed Hopper
3. **EPN 3** – Vibrating Grizzly Feeder
4. **EPN 4** – Impact Crusher (Trakpactor 550)

5. **EPN 5** – Conveyor #1 (Crusher Discharge)
6. **EPN 6** – Primary Screen
7. **EPN 7** – Conveyor #2 (Transfer to Secondary Screen)
8. **EPN 8** – Secondary Screen
9. **EPN 9** – Conveyor #3 (Final Product Transfer)
10. **EPN 10** – Stockpile Drop Points / Finished Product Storage
11. **EPN 11** – Pit Excavation and Material Loading

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
 - CRUSHER
 - CRUSHER SPECIFICATION
 - CRUSHER FEATURES
 - HOPPER
 - VIBRATING GRIZZLY FEEDER
 - PRODUCT CONVEYOR
 - POWER UNIT & HYDRAULICS
 - TRACKS
 - PLANT CONTROLS & OTHER
 - HAZEMAG IMPACT CRUSHER
 - HAZEMAG CRUSHER SPEC
 - HAZEMAG CRUSHER FEATURES
 - OPTIONS
 - OPTIONS 2
 - OPTIONS 3
 - POWERSCREEN® PULSE
 - DIMENSIONS

OVERVIEW

SPECIFICATION

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

- ▶ FEATURES & BENEFITS
- ▶ CRUSHER
 - ▶ CRUSHER SPECIFICATION
 - ▶ CRUSHER FEATURES
- ▶ HOPPER
- ▶ VIBRATING GRIZZLY FEEDER
- ▶ PRODUCT CONVEYOR
- ▶ POWER UNIT & HYDRAULICS
- ▶ TRACKS
- ▶ PLANT CONTROLS & OTHER
- ▶ HAZEMAG IMPACT CRUSHER
 - ▶ HAZEMAG CRUSHER SPEC
 - ▶ HAZEMAG CRUSHER FEATURES
- ▶ OPTIONS
 - ▶ OPTIONS 2
 - ▶ OPTIONS 3
- ▶ POWERSCREEN® PULSE
- ▶ DIMENSIONS



PRODUCT CONVEYOR

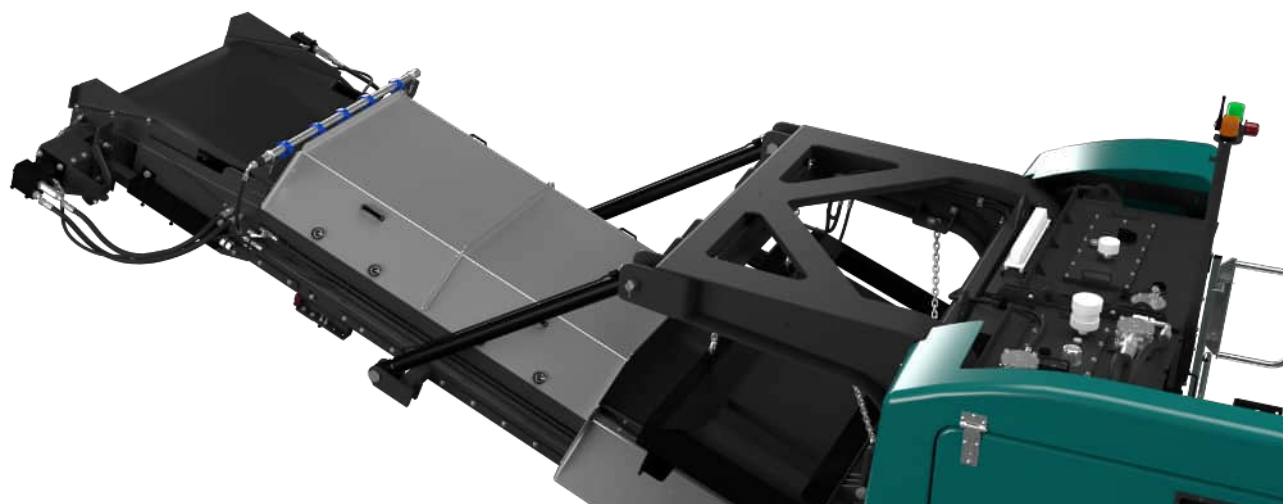
Conveyor type:	Fully removable modular unit with hydraulic raise & lower facility to increase clearance & simplify rebar removal. Shallow troughed with winged rollers & fully tunnelled with minimal snag areas
Belt type:	Ripstop EP500/3 8+2 with steel wire breaker ply
Belt width:	1200mm (3' 11")
Discharge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

Speed wheel:	the head drum 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.

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





TRAKPACTOR 550



OVERVIEW

- ▶ FEATURES & BENEFITS
- ▶ CRUSHER
 - ▶ CRUSHER SPECIFICATION
 - ▶ CRUSHER FEATURES
- ▶ HOPPER
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 - ▶ OPTIONS 2
 - ▶ OPTIONS 3
- ▶ POWERSCREEN® PULSE
- ▶ 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 REVOL 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 REVOL 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





TRAKPACTOR 550



OVERVIEW

- ▶ FEATURES & BENEFITS
- ▶ CRUSHER
 - ▶ CRUSHER SPECIFICATION
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- ▶ OPTIONS
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 - ▶ OPTIONS 3
- ▶ POWERSCREEN® PULSE
- ▶ DIMENSIONS



HAZEMAG CRUSHER SPECIFICATION

Feed opening: 1360mm x 800mm (54" x 32")

Max lump size*: 500mm³ (20in³) / 860mm (34") diagonally/
1000 x 1000 x 200mm (39 x 39 x 8") slab
*depending on material blow bar specification

Rotor width: 1340mm (53")

Rotor diameter: 1200mm (47")

Number of aprons: 2

Maximum clearance: 273mm (11") on both aprons

Maximum OSS setting: 200mm (8") upper apron, 100mm (4") lower apron

Minimum CSS setting: 75mm (3") upper apron, 35mm (1.4") lower apron

Number of blow bars: 4

Blow bar removal: Vertically

Blow bar configuration: 2 full & 2 half (optional 4 full)

Setting adjustment: Hydraulic assist

Overload protection: Hydraulic

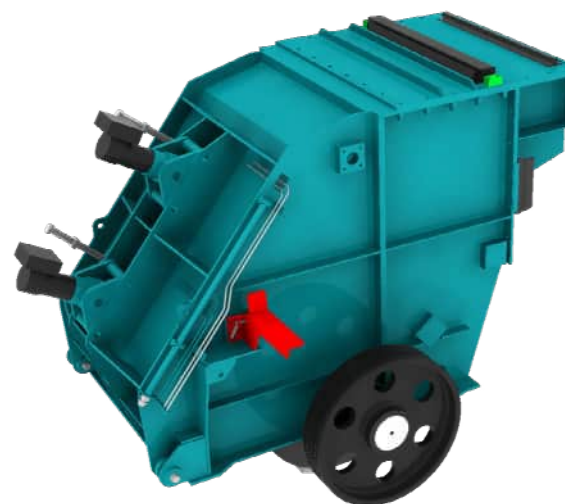
Rotor speeds: 540 - 630rpm (34 - 40m/s) (111 - 131ft/s)

Applications: Demolition / recycling / quarry

Crusher weight: 14,855kg (32,750lbs)

Full blow bar weight: 410kg (904lbs)

Side Liners: 20mm thick, abrasive resistant steel





► FEATURES & BENEFITS

CRUSHER

▶ CRUSHER SPECIFICATION

► CRUSHER FEATURES

HOPPER

VIBRATING GRIZZLY FEEDER

PRODUCT CONVEYOR

POWER UNIT & HYDRAULICS

TRACKS

PLANT CONTROLS & OTHER

HAZEMAG IMPACT CRUSHER

▶ HAZEMAG CRUSHER SPEC

▶ HAZEMAG CRUSHER FEATURES

OPTIONS

▶ OPTIONS 2

► OPTIONS 3

POWERSCREEN® PULSE

DIMENSIONS



DIMENSIONS

MORE DIMENSIONS OVERLEAF

 CALIFORNIA AIR RESOURCES BOARD	SCANIA CV AB	EXECUTIVE ORDER U-R-024-0034 New Off-Road Compression-Ignition Engines
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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):

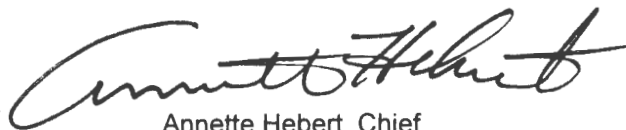
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			NMHC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
130 ≤ KW ≤ 560	Tier 4 Final	STD	0.19	0.40	N/A	3.5	0.02	N/A	N/A	N/A
		CERT	0.08	0.19	--	0.2	0.02	--	--	--

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- placement	4.Power kW @RPM	5.Fuel Rate: mm/stroke @ peak HP	6.Fuel Rate: (lbs/hr) @ peak HP	7.Torque Nm @ RPM	8.Fuel Rate: mm/stroke@ peak torque	9.Fuel Rate: (lbs/hr)@ 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



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

1. Reason for Submission (If other is checked please describe in space provided.)		
☒ New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
☐ Renewal (Core Data Form should be submitted with the renewal form)	☐ Other	
2. Customer Reference Number (if issued)	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number (if issued)
CN 606402345		RN 112281167

SECTION II: Customer Information

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

18. Telephone Number	19. Extension or Code	20. Fax Number (if applicable)
(361) 449-6979		() -

SECTION III: Regulated Entity Information

21. General Regulated Entity Information (If 'New Regulated Entity' is selected, a new permit application is also required.)								
☒ New Regulated Entity ☐ Update to Regulated Entity Name ☐ 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>								
22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.)								
S Jolander Ranch								
23. Street Address of the Regulated Entity: (No PO Boxes)								
	City		State		ZIP		ZIP + 4	
24. County								

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

25. Description to Physical Location:	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							
26. Nearest City					State	Nearest ZIP Code		
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>								
27. Latitude (N) In Decimal:		28.625226			28. Longitude (W) In Decimal:		-98.312255	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds			
29. Primary SIC Code (4 digits)	30. Secondary SIC Code (4 digits)		31. Primary NAICS Code (5 or 6 digits)		32. Secondary NAICS Code (5 or 6 digits)			
1442			212321					
33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.)								
Caliche mining for road base								
34. Mailing Address:	6217 Hwy 281 PO Box 383							
	City	Three Rivers	State	Tx	ZIP	78071	ZIP + 4	
35. E-Mail Address:	90transportation@gmail.com							
36. Telephone Number	37. Extension or Code				38. Fax Number (if applicable)			
(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.

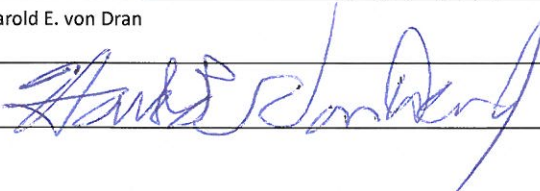
☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste
☐ Municipal Solid Waste	☒ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☐ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:

SECTION IV: Preparer Information

40. Name:	Harold (Ed) von Dran		41. Title:	President and Chief Engineer
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address	
(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.

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



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).

Please Check The Type of Facility: ☒ Rock Crusher ☐ Concrete Crusher		
CONDITION NUMBER AND DESCRIPTION		
(1)(B)	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? (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.)	☐ YES ☐ NO ☒ N/A
(1)(C)(ii)	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?	☐ YES ☐ NO ☒ N/A
(1)(D)	In lieu of meeting the distance requirements in (1)(B), will all the following occur:	
(1)(D)(i)	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?	☐ YES ☐ NO ☒ N/A
(1)(D)(ii)	Will this plant operate onsite for one period of 180 calendar days or less?	☐ YES ☐ NO ☒ N/A
(1)(D)(iii)	Will all applicable conditions stated in commission rules, including operating conditions be met?	☐ YES ☐ NO ☒ N/A
(1)(D)(iv)	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?	☐ YES ☐ NO ☒ N/A
(1)(E)	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?	☐ YES ☒ NO ☐ N/A



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

Please Check The Type of Facility: ☒ Rock Crusher ☐ Concrete Crusher		
CONDITION NUMBER AND DESCRIPTION (<i>continued</i>)		
(1)(F)	Is there a rock crusher (or concrete crusher) authorized under Texas Health and Safety Code (THSC) § 382.0518, Preconstruction Permit, at this site? 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?	☐ YES ☒ NO ☐ N/A ☐ YES ☒ NO ☐ N/A
(1)(G)	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? Is the company's compliance history rating poor?	☒ YES ☐ NO ☐ N/A ☐ YES ☒ NO ☐ N/A
(1)(H)	Has construction and/or operation begun on the facility? Is there a non operational crusher stored onsite?	☐ YES ☒ NO ☐ N/A ☐ YES ☒ NO ☐ N/A
(1)(I)	In accordance with 30 TAC § 116.614, Standard Permit Fees, was a \$900 fee sent to TCEQ Revenue Section?	☒ YES ☐ NO ☐ N/A
(1)(J)	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?	☒ YES ☐ NO ☐ N/A
(1)(K)	Will these crushing facilities only process nonmetallic minerals or a combination of nonmetallic minerals as described in 40 CFR Part 60, Subpart OOO?	☒ YES ☐ NO ☐ N/A
(1)(L)	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?	☐ YES ☐ NO ☒ N/A
(1)(M)	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? 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?	☒ YES ☐ NO ☐ N/A ☒ YES ☐ NO ☐ N/A



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

Please Check The Type of Facility: ☒ Rock Crusher ☐ Concrete Crusher		
CONDITION NUMBER AND DESCRIPTION (<i>continued</i>)		
(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?	☒ YES ☐ NO ☐ N/A
(1)(P)	Have maintenance emissions been authorized? (Maintenance emissions are not included in this permit and must be approved under separate authorization.) 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.) Will start-up and shutdown emissions exceed those expected during production operations?	☐ YES ☒ NO ☐ N/A ☐ YES ☒ NO ☐ N/A ☐ YES ☒ NO ☐ 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?	☐ YES ☒ NO ☐ N/A
PUBLIC NOTICE REQUIREMENTS - Detailed Public Notice Information will be Sent upon Determination of Technical Completeness		
(2)(B)(i)	Will public notice be published no later than 30 days after the application is determined to be technically complete?	☒ YES ☐ NO ☐ N/A
OPERATIONAL REQUIREMENTS		
(3)(A)	Will the primary crusher throughput exceed 200 tons per hour?	☐ YES ☒ NO ☐ 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?	☐ YES ☒ NO ☐ 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? (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).	☒ YES ☐ NO ☐ N/A



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

Please Check The Type of Facility: ☒ Rock Crusher ☐ Concrete Crusher		
OPERATIONAL REQUIREMENTS (continued)		
(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? 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?	☐ YES ☐ NO ☒ N/A ☐ YES ☐ NO ☒ 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?	☒ YES ☐ NO ☐ 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? (Equipment that is not a source of emissions does not require authorization.)	☐ YES ☒ NO ☐ 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?	☐ YES ☒ NO ☐ 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?	☐ YES ☒ NO ☐ N/A
(3)(I)	Will all crushers be equipped with runtime meters and will the runtime meters be operating during crushing operations?	☒ YES ☐ NO ☐ 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?	☒ YES ☐ NO ☐ 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? Will opacity of emissions from any crusher exceed 15 percent, averaged over a six-minute period as determined using EPA Test Method 9?	☐ YES ☒ NO ☐ N/A ☐ YES ☒ NO ☐ 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?	☐ YES ☒ NO ☐ N/A



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

Please Check The Type of Facility: ☒ Rock Crusher ☐ Concrete Crusher	
OPERATIONAL REQUIREMENTS (continued)	
(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? ☐ YES ☒ NO ☐ N/A
(3)(M)(ii)	Dust-suppressant chemicals? ☒ YES ☐ NO ☐ N/A
(3)(M)(iii)	Water? ☒ YES ☐ NO ☐ N/A
(3)(M)(iv)	Paved with a cohesive hard surface that is maintained intact and cleaned? ☐ YES ☒ NO ☐ N/A
(3)(N)	Will all stockpiles be sprinkled with water, dust-suppressant chemicals, or covered, as necessary, to minimize dust emissions? ☒ YES ☐ NO ☐ N/A
(3)(O)	Will raw material and product stockpile heights exceed 45 ft? ☐ YES ☒ NO ☐ N/A
(3)(P)	Will the crusher be equipped with a weigh hopper or scale belt that accurately determines the mass of material being crushed? ☒ YES ☐ NO ☐ N/A
(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? ☒ YES ☐ NO ☐ N/A

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Texas Commission on Environment Quality

Table 17
Rock Crushers

Please Complete the Following				
Maximum operating schedule:	10	hours/day	5	days/week
			52	weeks/year
Does the facility operate at night?				☐ YES ☒ NO
Maximum Plant Production Rates:				
☒ Primary Crusher	Type: Trakpactor 550	200	tons/hour	520000 tons/year
☐ Secondary Crusher(s)	Type:		tons/hour	tons/year
☐ Tertiary Crusher(s)	Type:		tons/hour	tons/year
The Following Pieces of Equipment will be Controlled as Shown:				
Feed Hoppers:	☐ None	☒ Water Spray	☐ Suction to Baghouse	☐ Other: _____
All Belt Transfer Points:	☐ None	☒ Water Spray	☐ Suction to Baghouse	☐ Other: _____
Inlet of all Crushers:	☐ None	☒ Water Spray	☐ Suction to Baghouse	☐ Other: _____
Outlet of all Crushers:	☐ None	☒ Water Spray	☐ Suction to Baghouse	☐ Other: _____
All Shaker Screens:	☐ None	☒ Water Spray	☐ Suction to Baghouse	☐ Other: _____
If Water Sprays are used, Provide the Following Data:				
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:		☐ None	☒ Water	☐ Chemical
In-plant roads will be:		☐ Paved and Vacuumed	☐ Paved and Swept	☐ Oiled
☒ Sprinkled with Water and/or Chemicals		☐ Other: _____		

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Texas Commission on Environmental Quality
Table 29 Reciprocating Engines

I. Engine Data											
Manufacturer: Scania		Model No. DC13 Tier 4f		Serial No. Unkown		Manufacture Date:					
Rebuilds Date:		No. of Cylinders: 6		Compression Ratio: 17.5:1		EPN: DC13 085A					
Application: ☒ Gas Compression ☐ Electric Generation ☐ Refrigeration ☐ Emergency/Stand by ☒ 4 Stroke Cycle ☐ 2 Stroke Cycle ☐ Carbureted ☐ Spark Ignited ☐ Dual Fuel ☐ Fuel Injected ☒ Diesel ☐ Naturally Aspirated ☐ Blower /Pump Scavenged ☐ Turbo Charged and I.C. ☒ Turbo Charged ☐ Intercooled ☐ I.C. Water Temperature ☐ Lean Burn ☐ Rich Burn											
Ignition/Injection Timing:				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					
II. Fuel Data											
Type of Fuel: ☐ Field Gas ☐ Landfill Gas ☐ LP Gas ☐ Natural Gas ☐ Digester Gas ☒ 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											
III. Emission Factors (Before Control)											
NO _x		CO		SO ₂		VOC		Formaldehyde		PM ₁₀	
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: ☐ Manufacturer Data ☐ AP-42 ☒ Other (specify): State of California, Title 13											
IV. Emission Factors (Post Control)											
NO _x		CO		SO ₂		VOC		Formaldehyde		PM ₁₀	
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: ☐ NSCR Catalyst ☐ Lean Operation ☐ Parameter Adjustment ☐ Stratified Charge ☐ JLCC Catalyst ☒ Other (Specify): SCR and EGR											
Note: Must submit a copy of any manufacturer control information that demonstrates control efficiency.											
Is Formaldehyde included in the VOCs?										☐ Yes ☒ No	
V. Federal and State Standards (Check all that apply)											
☐ NSPS JJJJ ☐ MACT ZZZZ ☒ NSPS IIII ☐ Title 30 Chapter 117 - List County: _____											
VI. Additional Information											
1. Submit a copy of the engine manufacturer's site rating or general rating specification data. 2. Submit a typical fuel gas analysis, including sulfur content and heating value. For gaseous fuels, provide mole percent of constituents. 3. Submit description of air/fuel ratio control system (manufacturer information is acceptable).											

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Texas Commission on Environmental Quality
Air Quality Standard Permits
General Requirements Checklist
Title 30 Texas Administrative Code §§116.610-116.615

Check the most appropriate answer and include any additional information in the spaces provided. If additional space is needed, please include an extra page and reference the rule number. The SP forms, tables, checklists, and guidance documents are available from the TCEQ, Air Permits Division web site at:

www.tceq.texas.gov/permitting/air/nav/standard.html.

Most Standard Permits require registration with the commission's Office of Permitting, Remediation, and Registration in Austin. The facilities and/or changes to facilities can be registered by completing a [Form PI-1S](#), "Registration for Air Standard Permit." This checklist should accompany the registration form to expedite any registration review.

CHECK THE MOST APPROPRIATE ANSWERS AND FILL IN THE REQUESTED INFORMATION		
Rule	Questions/Description	Response
116.610(a)(1)	Are there net emissions increases associated with this registration?	☒ YES ☐ NO
	<i>If "YES," will net emission increases of air contaminants from the project, other than those for which a National Ambient Air Quality Standard (NAAQS) has been established, meet the emission limits of § 106.261 or § 106.262?</i>	☒ YES ☐ NO
	<i>If "NO," does the specific standard permit exempt emissions from this limit?</i>	☐ YES ☐ NO
Attach emissions summary and calculations:		
116.610(a)(3)	Do any of the Title 40 Code of Federal Regulations Part (CFR) 60, New Source Performance Standards apply to this registration?	☒ YES ☐ NO
<i>If "YES," list subparts:</i>		
116.610 (a)(4)	Do any Hazardous Air Pollutant requirements apply to this registration?	☐ YES ☒ NO
<i>If "YES," list subparts</i>		
116.610 (a)(5)	Do any maximum achievable control technology (MACT) standards as listed under 40 CFR Part 63 or Chapter 113, Subchapter C (National Emissions Standard for Hazardous Air for Source Categories) apply to this registration?	☐ YES ☒ NO
<i>If "YES," list subparts:</i>		
116.610(a)(6)	Will additional emission allowances under Chapter 101, Subchapter H, Division 3, Emissions Banking and Trading, need to be obtained following this registration?	☐ YES ☒ NO
116.611(a)(1-6)	Is the following documentation included with this registration:	☒ YES ☐ NO
	Emissions calculations including the basis of the calculations?	☒ YES ☐ NO
	Quantification of all emission increases and/or decreases associated with this project?	☒ YES ☐ NO
	Sufficient information demonstrating that this project does not trigger PSD or NNSR review?	☒ YES ☐ NO
	Description of efforts to minimize collateral emissions increases associated with this project?	☒ YES ☐ NO
	Process descriptions including related processes?	☒ YES ☐ NO
	Description of any equipment being installed?	☒ YES ☐ NO

Texas Commission on Environmental Quality
Air Quality Standard Permits
General Requirements Checklist
Title 30 Texas Administrative Code §§116.610-116.615

Rule	Question/Description	Response
116.614	Are the required fee and a copy of the check or money order provided with the application?	☒ YES ☐ NO
116.615(1)	Will emissions from the facility comply with all applicable rules and regulations of the commission adopted under Texas Health and Safety Code, Chapter 382, and with the intent of the Texas Clean Air Act?	☒ YES ☐ NO
116.615(2)	Do you understand that all representations with regard to construction plans, operating procedures, and maximum emission rates in this registration become conditions upon which the facility will be constructed and operated?	☒ YES ☐ NO
116.615(3)	Do you understand that all changes authorized by this registration need to be incorporated into the facility's permit if the facility is currently permitted under §116.110 (relating to Applicability)?	☒ YES ☐ NO
<i>List all related permit numbers:</i>		
116.615(9)617(e)(1)	Will all air pollution emission capture and abatement equipment be maintained in good working order?	☒ YES ☐ NO
116.615(10)	Will the facility comply with all applicable rules and regulations of the TCEQ, the Texas Health and Safety Code, Chapter 382, and the Texas Clean Air Act?	☒ YES ☐ NO

Save Form

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From: Ed vonDran <evondran@atei97.com>
Sent: Monday, November 10, 2025 12:39 PM
To: Andres Targa
Cc: Matt Wilmot; 90TRANSPORTATION@GMAIL.COM
Subject: 181766 398884 Raider Aggregates LLC
Attachments: Raider Aggregates Draft Build Optimized EvD 11-10-25 R1.pdf

Importance: High

Categories: GTG WCC

Good Day,

Please find attached the updated version of the Raider Aggregate application.

If you find any additional issues, please don't hesitate to contact me.

Ed von Dran, P.E.

President / Chief Engineer



architecture engineering environment

8626 Tesoro Dr., Suite 810

San Antonio, TX 78217

Phone (210) 930-2834 x 12

Cell (210) 326-6991

evondran@atei97.com

www.atei97.com

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From: Andres Targa <Andres.Targa@tceq.texas.gov>
Sent: Tuesday, November 4, 2025 11:43 AM
To: Ed vonDran <evondran@atei97.com>
Cc: Matt Wilmot <mwilmot@atei97.com>; 90TRANSPORTATION@GMAIL.COM
Subject: RE: Notice of Deficiency: 181766 398884 Raider Aggregates LLC

Good morning,

The referenced notice of deficiency's timeframe is 5 business days, so it is due by COB next Monday, November 10th, 2025.

Sincerely,

Andres Targa Mallona

Mechanical New Source Review
Environmental Permit Specialist
Air Permits Division
Texas Commission on Environmental Quality
Mail Code: MC-163, PO Box 13087
Austin, Texas 78711-3087
Direct Line: (512) 239-6107



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From: Ed vonDran <evondran@atei97.com>

Sent: Tuesday, November 4, 2025 11:24 AM

To: Andres Targa <Andres.Targa@tceq.texas.gov>

Cc: Matt Wilmot <mwilmot@atei97.com>; 90TRANSPORTATION@GMAIL.COM

Subject: RE: Notice of Deficiency: 181766 398884 Raider Aggregates LLC

Good day Andres,

We are on it! When does your 5 day time period expire by your count?

Ed von Dran, P.E.

President / Chief Engineer



architecture engineering environment

8626 Tesoro Dr., Suite 810

San Antonio, TX 78217

Phone (210) 930-2834 x 12

Cell (210) 326-6991

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From: Andres Targa <Andres.Targa@tceq.texas.gov>

Sent: Tuesday, November 4, 2025 9:56 AM

To: Ed vonDran <evondran@atei97.com>

Cc: Matt Wilmot <mwilmot@atei97.com>; 90TRANSPORTATION@GMAIL.COM

Subject: Notice of Deficiency: 181766 398884 Raider Aggregates LLC

Some people who received this message don't often get email from andres.targa@tceq.texas.gov. [Learn why this is important](#)

Dear Mr. Muniz:

Upon evaluation of the above-referenced application, we have determined that your application is deficient and Raider Aggregates Limited Liability Company must provide additional information to ensure that the requirements for obtaining a permit are met. Please furnish the following information within 5 days:

General Requirements

- Please provide an updated Core Data Form with accurate latitude and longitude coordinates that represent the exact location of the proposed facility. There is a discrepancy between current coordinates and the area map provided.
- Please complete the following form along with updated representations: [TCEQ Form 20335](#).
- There appears to be two residences inside the proposed property boundaries. Please confirm both houses are currently not occupied by residents.

Air Quality Standard Permit Checklist for Permanent Rock and Concrete Crushers

- Please clarify your response "Yes" on condition (1)(B) from *Section I General Requirements*. Based on the type of facility that is being proposed, this Checklist is only marked as "rock crusher" rather than "concrete crusher". If concrete will also be crushed at the site, please provide an updated Checklist with the correct type of facility marked at the top of each page; additionally, if both concrete and rock are being crushed, please make sure that you are complying with the requirements applicable to both types of facilities.

- Based on your updated representations from above, please explain your response for condition (1)(c)(ii).
- Please explain how Maintenance Startup and Shutdown Activities will be authorized based on your responses to condition (1)(P).

Emission Point Numbers (EPNs)

- Please note “unpaved roads” are not Emission Point Numbers; EPNs originate from sources, which refer to point(s) of origin of air contaminants, usually from stationary sources such as buildings, structures, facility, or any installation that emits or may emit any air pollutant subject to regulation. EPNs for rock crushers include 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. Please update your proposed EPNs based on this information.
- Additionally, **please ensure the same number of EPNs is being represented consistently and match across supporting permit documents.** For example, your emissions calculations contain 4 EPNs, whereas your process description contains 5 EPNs and discusses 11 processes throughout the description.

Area Map

- Please provide a more detailed area map along with the updated application; this requires an up-to-date area map that clearly depicts property boundaries, a north arrow, accurate scale, and includes the distance from the facility to the nearest residence, school, and/or place of worship.
- Additionally, please make sure to include a 3,000-foot radius that extends from the property boundary line.
- Please clarify why the proposed location for “Area 2” extends beyond the property boundary.

Plot Plan

- Please provide a detailed plot plan that clearly shows an accurate scale, a north arrow, all property lines, emission points, buildings, tanks, process vessels, other process equipment, and two benchmark locations (benchmark locations should represent accurate stationary corner property boundaries or site entrances). The drawing should be of a size that results in a drawing that is easy to read. Labeling of and identification of emission points, buildings, tanks, etc., must be consistent with other representations in the permit application.
- Please include setback distances showing compliance with standard permit requirements; **additionally, based on your current area map: please confirm that if equipment is moved within property boundaries, it will continue to comply with setback distance requirements.**

Flow Diagram & Process Description

- Please provide a Process Flow Diagram and Process Description to verify all technical information regarding the affected facility. **The process flow diagram should be sufficiently descriptive so the reviewer can determine the raw**

materials to be used in the process; all major processing steps and major equipment items; individual emission points associated with each process step; the location and identification of all emission abatement devices; and the location and identification of all waste streams (including wastewater streams that may have associated air emissions). Block flow diagrams generally are not sufficient except for very simple facilities such as boilers. Alternate material flows and changes in routing of emissions during periods of planned MSS should be depicted as well as any alternate emission control devices that will be used during these periods.

- To assure that all potential sources of air contaminants are identified and to ensure that the emissions are characterized properly, **a detailed process description is requested. Each step in each process should be discussed.** The process description should include how materials are received (in bulk, cans, drums, totes, etc.), where they are stored, how they are introduced into the process (mixing, blending, pouring, spraying, brushing, pneumatic conveying, etc.). The description should also discuss the process equipment used, process rates, emission reduction techniques, emission control devices such as baghouses. Finally, the discussion should cover parts and equipment preparation during and between process steps and end of process operations such as product testing, equipment cleanup, and waste storage and disposal.
- **The flow diagram needs to be as detailed as possible to match the process description; please refer to the examples attached for reference.**

After receipt of all the additional information, we will continue the review of your application. If the information furnished in response to this notice results in the need for further clarification or additional information, we will notify you. Please note that the applicant Raider Aggregates Limited Liability Company is required to furnish all information to demonstrate that the facility or source will comply with all applicable federal and state rules and statutes.

Failure to submit all of the requested information within 5 days of the date of this notification may result in a recommendation to void your application.

Sincerely,

Andres Targa Mallona

Mechanical New Source Review

Environmental Permit Specialist

Air Permits Division

Texas Commission on Environmental Quality

Mail Code: MC-163, PO Box 13087

Austin, Texas 78711-3087

Direct Line: (512) 239-6107



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November 7, 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, crushed via impact crusher, 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).

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

EPN 1 – Scania DC13 Diesel Engine Exhaust

The Trakpactor 550 is powered by a Scania DC13 Tier 4 Final diesel engine rated at 494 horsepower. This engine drives the crusher and associated hydraulic systems. Emissions from this source include nitrogen oxides (NOx), carbon monoxide (CO), volatile organic compounds (VOC), sulfur dioxide (SO₂), and particulate matter (PM). The unit is certified to meet Tier 4 Final standards under 40 CFR 60 Subpart IIII for nonroad compression-ignition engines and is equipped with selective catalytic reduction (SCR) and diesel oxidation catalyst (DOC) controls.



No MACT Subpart ZZZZ requirements apply because this is a portable engine that does not remain in one location for more than twelve months.

EPN 2 – Primary Feed Hopper

Material is delivered to the crusher via a steel hopper that receives caliche or aggregate from a front-end loader or excavator. The drop from the loader bucket into the hopper is a potential source of particulate emissions. Fugitive dust (PM_{10} and $PM_{2.5}$) is controlled by a water spray bar positioned along the hopper lip and by minimizing drop height during loading operations. The hopper is designed with abrasion-resistant liners to reduce material buildup and associated dust generation.

EPN 3 – Vibrating Grizzly Feeder

The vibrating grizzly feeder transfers material from the hopper into the crusher while removing fine material prior to crushing. This process can generate minor dust emissions during agitation and material drop. A spray system positioned above the feeder maintains material moisture and prevents visible emissions. The feeder is subject to 40 CFR 60 Subpart OOO requirements for nonmetallic mineral processing plants.

EPN 4 – Impact Crusher (Trakpactor 550)

The main emission source at the site is the impact crusher itself. Material enters the crusher chamber and is broken down by a twin-apron, four-bar impactor. Crushing releases fine particulate matter (PM_{10} and $PM_{2.5}$). These emissions are controlled by multiple atomizing spray nozzles mounted inside the crusher housing, flexible skirting around transfer points, and an optional enclosure. The unit operates under NSPS Subpart OOO for performance and opacity limits.

EPN 5 – Crusher Discharge Conveyor #1

After crushing, material is transferred from the crusher onto the first discharge conveyor. Dust emissions occur as material drops onto the belt and as it travels along the conveyor. Control measures include full-length belt skirting, covered transfer points, and water sprays installed at both loading and discharge ends of the belt. The conveyor system complies with Subpart OOO and AP-42 Section 11.19.2 emission guidance.

EPN 6 – Vibratory Screen #1 (Primary)

The first screening unit separates material by size into coarse and fine fractions. Screening activity generates fine dust from vibration and material agitation. Water spray bars located above each deck reduce airborne particulate. The screen is covered under 40 CFR 60 Subpart OOO and is limited to 10% opacity per NSPS standards. Maintenance logs are kept for each spray system inspection.

EPN 7 – Vibratory Screen #2 (Secondary/Fines)

The secondary screening deck further classifies material into finer product sizes. Emissions consist of PM_{10} and $PM_{2.5}$ from material agitation. Control measures mirror those of the primary screen, including active spray bars and belt skirting at feed and discharge points. All equipment is operated and maintained to ensure compliance with opacity limits.

EPN 8 – Transfer Conveyor #2

This conveyor moves screened material from the first to the second screen or to a different processing line. The main emissions occur from material falling onto and off the conveyor. These are minimized by skirting and misting systems that apply water directly at transfer points. Periodic inspections ensure adequate belt tension and spray operation.

EPN 9 – Final Product Conveyor #3





The final conveyor discharges finished crushed and screened product to the stockpile. Water spray bars positioned at the head pulley provide continuous wet suppression during active operation. Belt covers or partial enclosures may be installed to limit windblown dust. This point represents the last material transfer before storage.

EPN 10 – Stockpile Drop Point / Loading Area

Crushed material exits the conveyor and falls onto the finished product stockpile. This drop can generate dust emissions, particularly during dry conditions. Stockpile dust is controlled with continuous or intermittent spray systems at discharge points and with surface wetting. Stockpiles are built with low slope angles and may be stabilized using crusting agents or covered if inactive. Windbreaks can be used for added control.

EPN 11 – Pit Excavation and Loading Operations

The pit area generates dust during excavation, loading, and hauling of raw caliche or aggregate material to the crusher. Emissions are managed through watering disturbed areas, minimizing drop heights when loading trucks, and limiting disturbed acreage. Completed pit sections are stabilized when inactive to minimize dust emissions.

Non-EPN Fugitive Emission Sources – Unpaved Roads

Per TCEQ guidance, fugitive emissions from **unpaved haul and access roads** are not listed as individual EPNs because they are not considered discrete process emission points. These emissions are instead categorized as site-wide fugitive sources and addressed through best management practices. Dust from unpaved roads is controlled through the use of water trucks, speed limits of 15 mph, and, when necessary, environmentally safe dust suppressants. Watering frequency is adjusted according to traffic levels and weather conditions. Records of road watering and control maintenance are retained for compliance documentation but do not require individual EPN designation.

Control System Description (Not an EPN)

The water spray system serves as the primary control mechanism for dust suppression across all emission points. The system operates at 3 bar pressure and 24 liters per minute, feeding multiple atomizing nozzles positioned over the crusher, screens, conveyors, and transfer points. The water system includes frost protection, pump, and manifold assemblies. This system ensures compliance with visible emission and particulate standards under the TCEQ Standard Permit.

Recordkeeping and Monitoring

Daily logs are maintained for all watering events, suppressant applications, and equipment maintenance activities. Each emission point is visually inspected per shift to confirm effective dust control. Any failures in control systems are corrected immediately, and corrective actions are documented. All records are retained onsite for a rolling 24-month period and made available to the TCEQ upon request.

MAINTENANCE, START-UP, AND SHUTDOWN

Startup and shutdown emissions for the Powerscreen Trakpactor 550 crusher with Scania DC13 Tier 4 Final engine will not exceed emissions during normal production operations. The engine is equipped with SCR, EGR, DOC, and AMOX emission controls that function during all operating modes including startup and shutdown. Startup procedure involves:

1. Engine warm-up period (approximately 5-10 minutes)





2. Gradual increase to operating temperature
3. SCR system reaches operational temperature
4. No crushing activity occurs until engine reaches normal operating parameters

Engine will be shut off during maintenance.

Shutdown is controlled and emissions during shutdown are lower than production emissions as the engine idles down before shutoff.

No separate MSS authorization is required because emissions during maintenance, start-up, and shutdown will not exceed those of normal operations.

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.

A handwritten signature in black ink, appearing to read 'Harold E. von Dran, Jr.'.

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

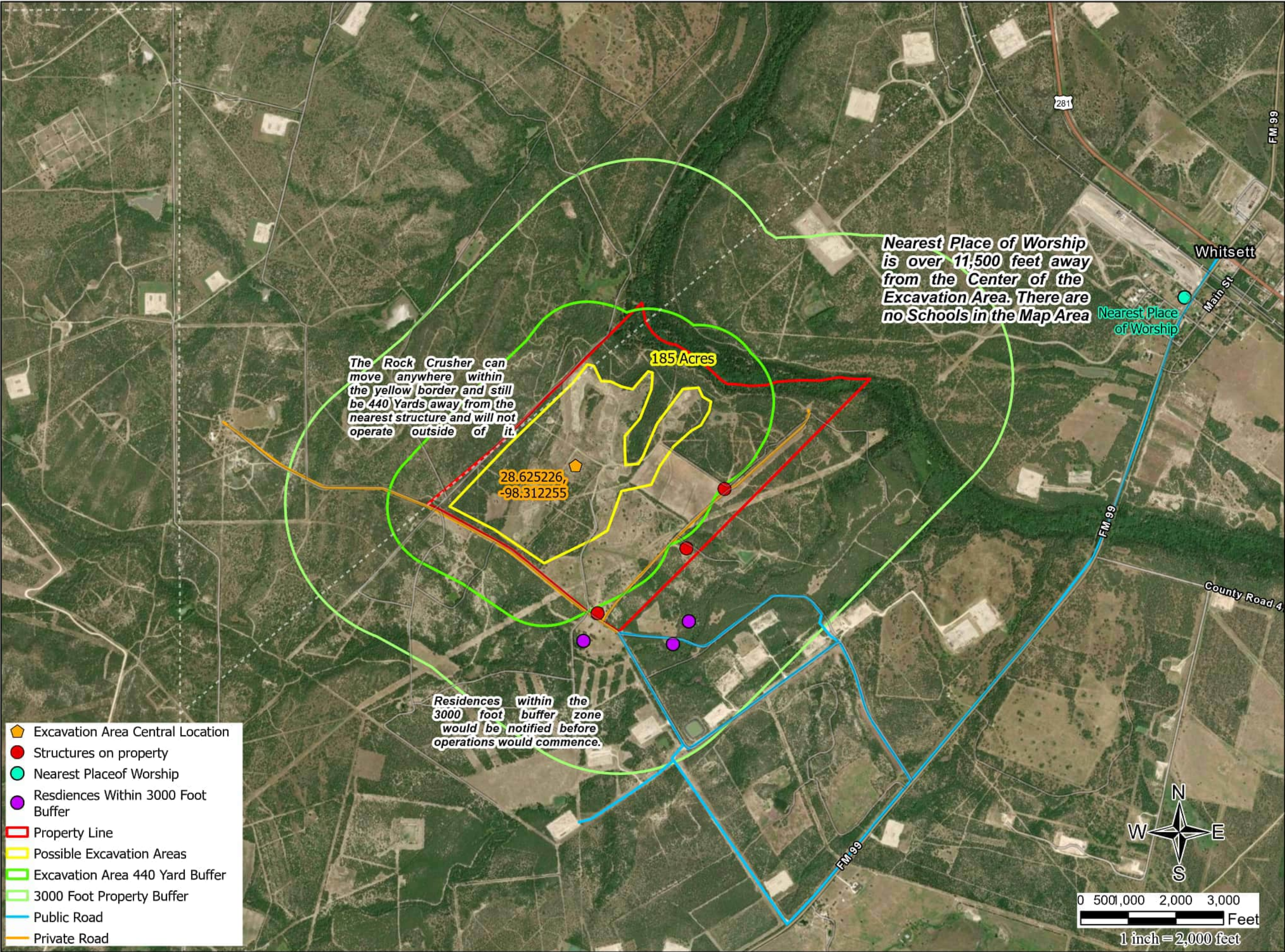
EPN #	EPN	Description	AP-42 EF (lb/ton) controlled ¹	AP-42 EF (lb/hp-hr) ¹	AP-42 EF (lb/VMT) ¹	*Engine Exhaust AP-42 ²	EF (g/kWh)	
EPN1	Engine Exhaust	Rock Crushing Activities	--	Various	--	Nox	0.4	
EPN2	Primary Feed Hopper	Material drop	0.002	--	--	CO	3.5	
EPN3	Vibrating Grizzly Feeder	Screen/feeder	0.002	--	--	NMHC	0.19	
EPN4	Impact Crusher	Crusher	0.0054	--	--	PM10	0.02	
EPN5	Conveyor #1	Conveyor transfer	0.0015	--	--			
EPN6	Primary Screen	Screen	0.0022	--	--	**Unpaved Roads AP-42	EF (lb/VMT) uncontrolled	80% Controlled
EPN7	Conveyor #2	Conveyor transfer	0.0015	--	--	PM10	1.5	0.3
EPN8	Secondary Screen	Screen	0.0022	--	--	PM2.5	0.15	0.03
EPN9	Conveyor #3	Conveyor transfer	0.0015	--	--	TSP	4.90	0.98
EPN10	Stockpile Drop Points	Stockpile loading	0.0025	--	--			
EPN11	Pit Excavation & Loading	Pit/loading	0.002	--	--			
FUG (Non EPN)	Unpaved Roads	Roads that are unpaved	--	--	Various**			
hours operating per year		2640						
Facility Coordinates	Northing	28.62523	Easting	-98.312255	Elevation	214		
		¹ TCEQ Technical Guidance and U.S. EPA AP-42, Section 11.19.2						
		² From the State of California Resources Board						

[illegible]

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											
EPN-1 Emissions Calculation											
((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										
EPN 2-11 Emissions Calculations											
EPN	Source	Process Type	Pollutant	TPH	EF (lb/ton)	Uncontrolled lb/hr	tons/hr conversion factor	tons/hr	Hours/yr	Uncontrolled TPY	Controlled TPY 80%
	2 Primary Feed Hopper	Material drop	PM10	200	0.002	0.4	0.0005	0.0002	2640	0.528	0.11
	Vibrating Grizzly										
	3 Feeder	Screen/feeder	PM10	200	0.002	0.4	0.0005	0.0002	2640	0.528	0.11
	4 Impact Crusher	Crusher	PM10	200	0.0054	1.08	0.0005	0.00054	2640	1.4256	0.29
	5 Conveyor #1	Conveyor transfer	PM10	200	0.0015	0.3	0.0005	0.00015	2640	0.396	0.08
	6 Primary Screen	Screen	PM10	200	0.0022	0.44	0.0005	0.00022	2640	0.5808	0.12
	7 Conveyor #2	Conveyor transfer	PM10	200	0.0015	0.3	0.0005	0.00015	2640	0.396	0.08
	8 Secondary Screen	Screen	PM10	200	0.0022	0.44	0.0005	0.00022	2640	0.5808	0.12
	9 Conveyor #3	Conveyor transfer	PM10	200	0.0015	0.3	0.0005	0.00015	2640	0.396	0.08
	10 Stockpile Drop Points	Stockpile loading	PM10	200	0.0025	0.5	0.0005	0.00025	2640	0.66	0.13
	Pit Excavation &										
	11 Loading	Pit/loading	PM10	200	0.002	0.4	0.0005	0.0002	2640	0.528	0.11

Exhibit B

Facility Maps



8626 Tesoro Drive Suite 810
San Antonio, TX 78217

P: (210) 930-2834

www.atei97.com

TBPE F-8920; Arch BR-1889;

Raider Aggregates Area Map

Property Southwest of Whitsett Tx
(~480 acre area)
Live Oak County

Project Number:
S250416-927

Date: 11/7/2025

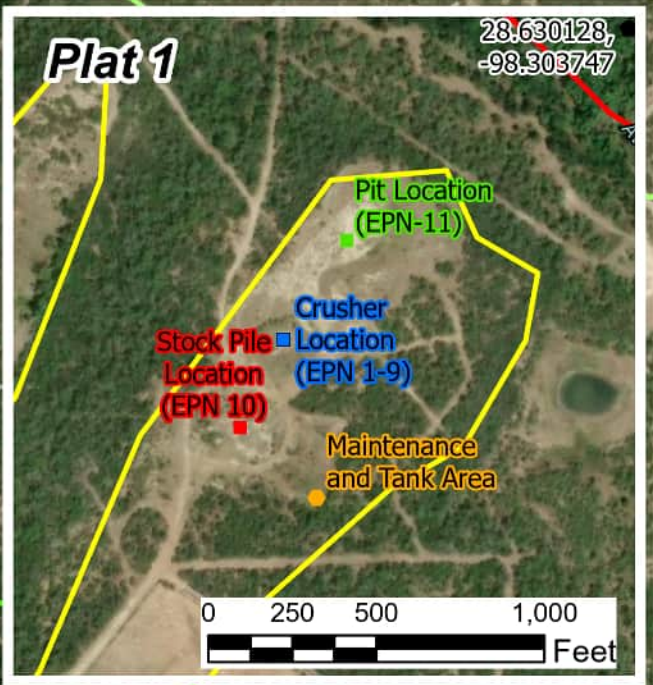
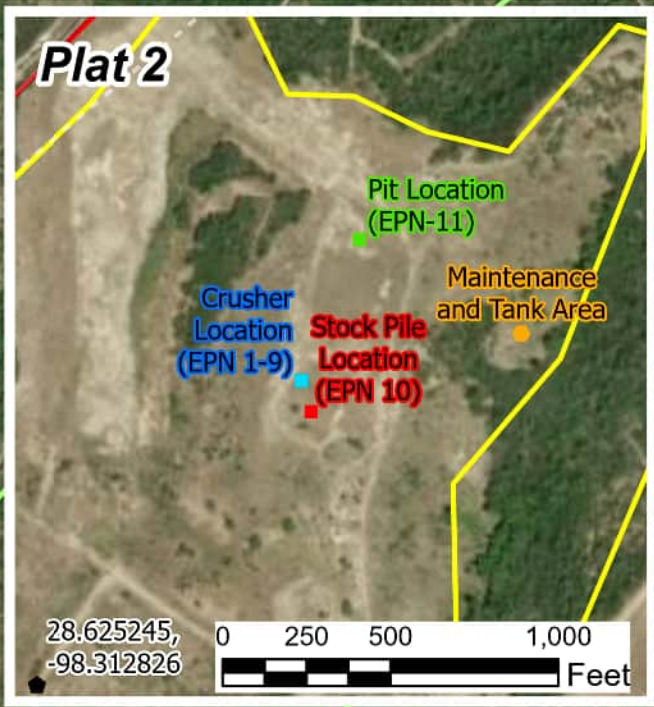
Project MGR: EvD

Drawn By: Matt Wilmot

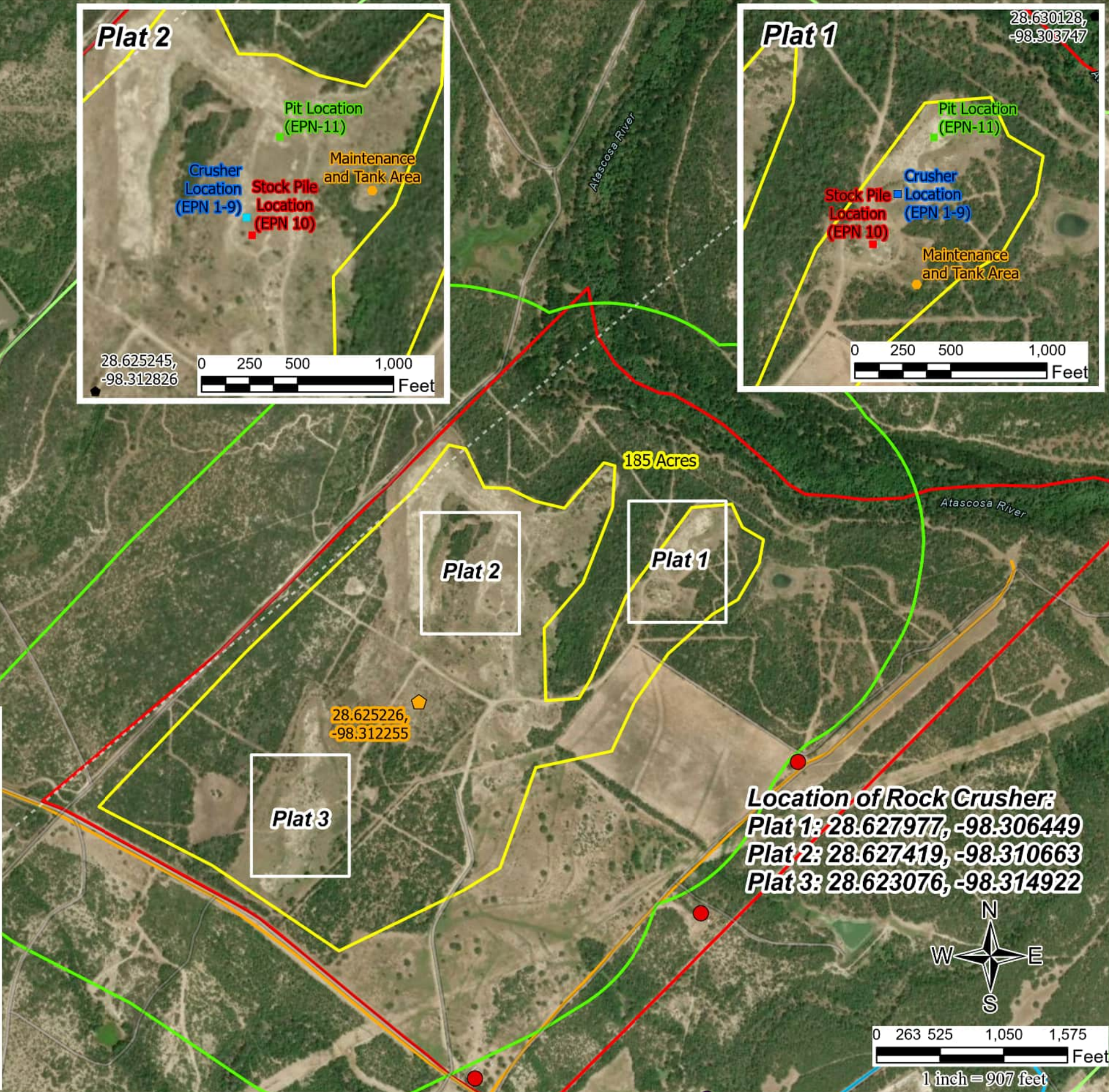
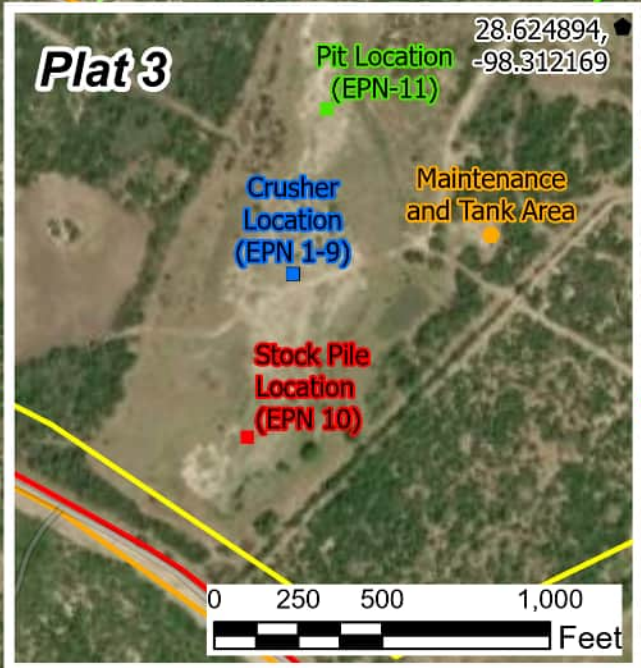
FIGURE

Map

- Excavation Area Central Location
- Property Line
- Possible Excavation Areas
- Excavation Area 440 Yard Buffer
- 3000 Foot Property Buffer
- Public Road
- Private Road



This Map represents three examples of where the Rock Crusher could be assembled.



Location of Rock Crusher:
Plat 1: 28.627977, -98.306449
Plat 2: 28.627419, -98.310663
Plat 3: 28.623076, -98.314922



8626 Tesoro Drive Suite 810
 San Antonio, TX 78217

P: (210) 930-2834

www.atei97.com

TBPE F-8920; Arch BR-1889;

Raider Aggregates Plat Map	
Property Southwest of Whitsett Tx (~480 acre area) Live Oak County	
Project Number: S250416-927	
Date:	11/7/2025
Project MGR:	EvD
Drawn By:	Matt Wilmot
FIGURE	
Map	

(Satellite Image (Hybrid Street))

(Satellite Image (Hybrid Street))

028.601028° N
098.333101° W

(Satellite Image (Hybrid Street))

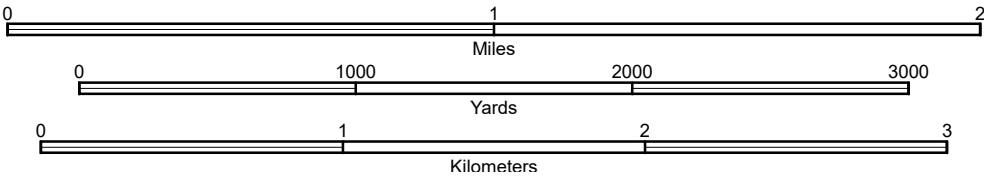
Produced by Trimble Terrain Navigator Pro
Topography based on USGS 1:12,000 Maps

North American 1983 Datum (NAD83)

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

Declination
GN
GN 0.34° E
MN 3.96° E

(Satellite Image (Hybrid Street))
SCALE 1:25000



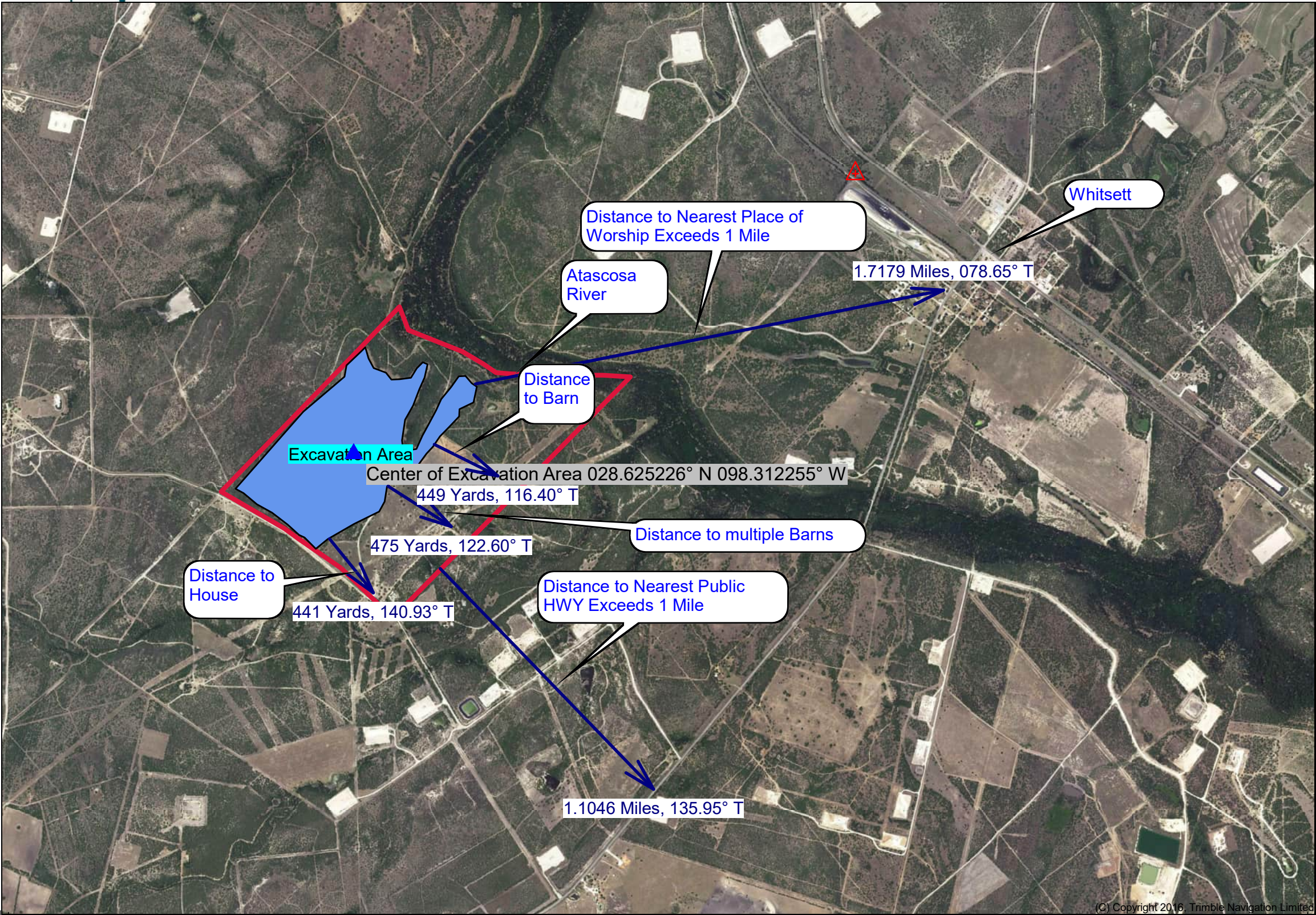
CONTOUR INTERVAL UNKNOWN FT

(C) Copyright 2016, Trimble Navigation Limited
Printed: Thu Nov 06, 2025

028.601028° N
098.255107° W

(Satellite Image (Hybrid Street))

28098-E3-TM-012
WILLOW HOLLOW TANK, TX
MAY 16, 2022



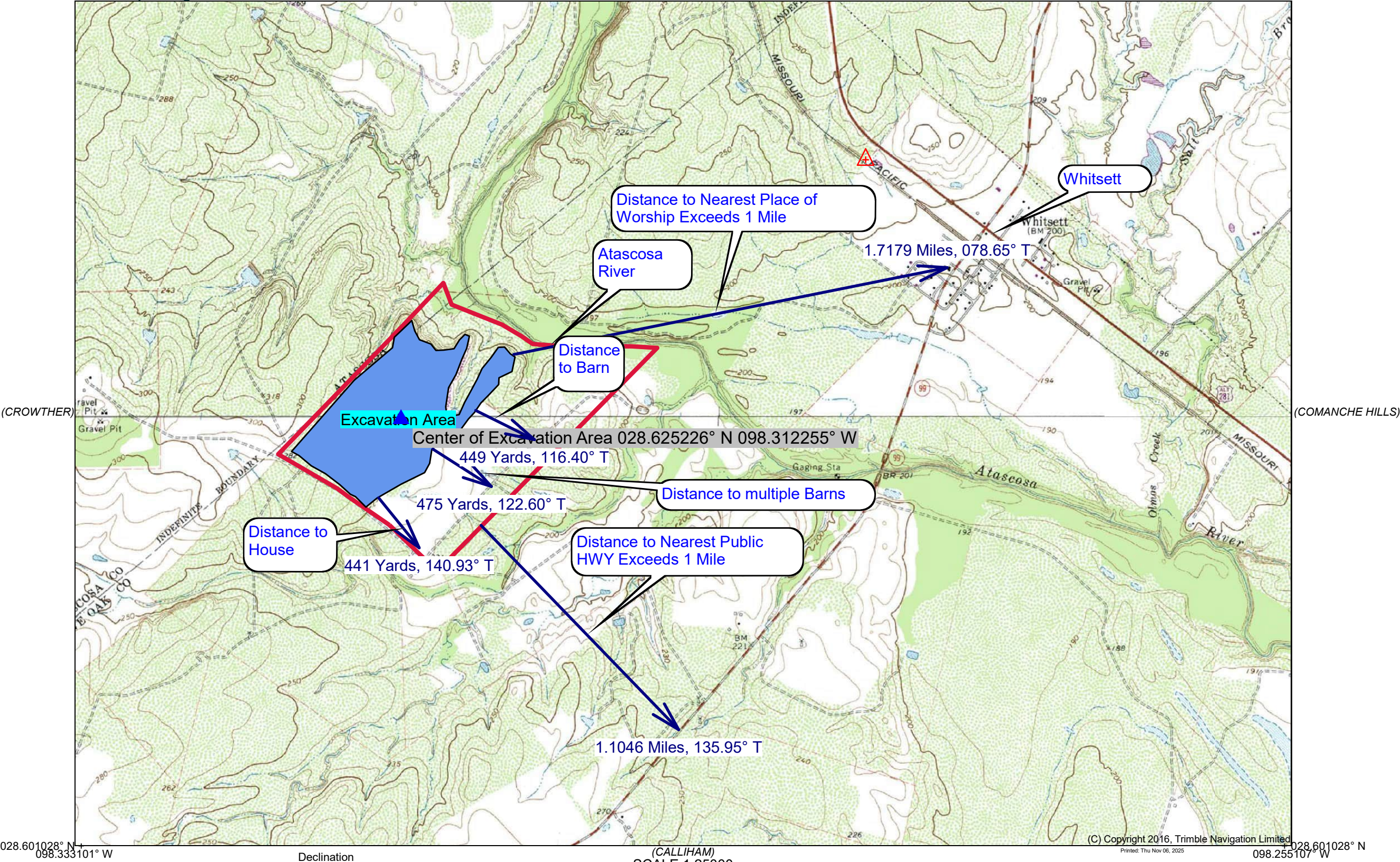
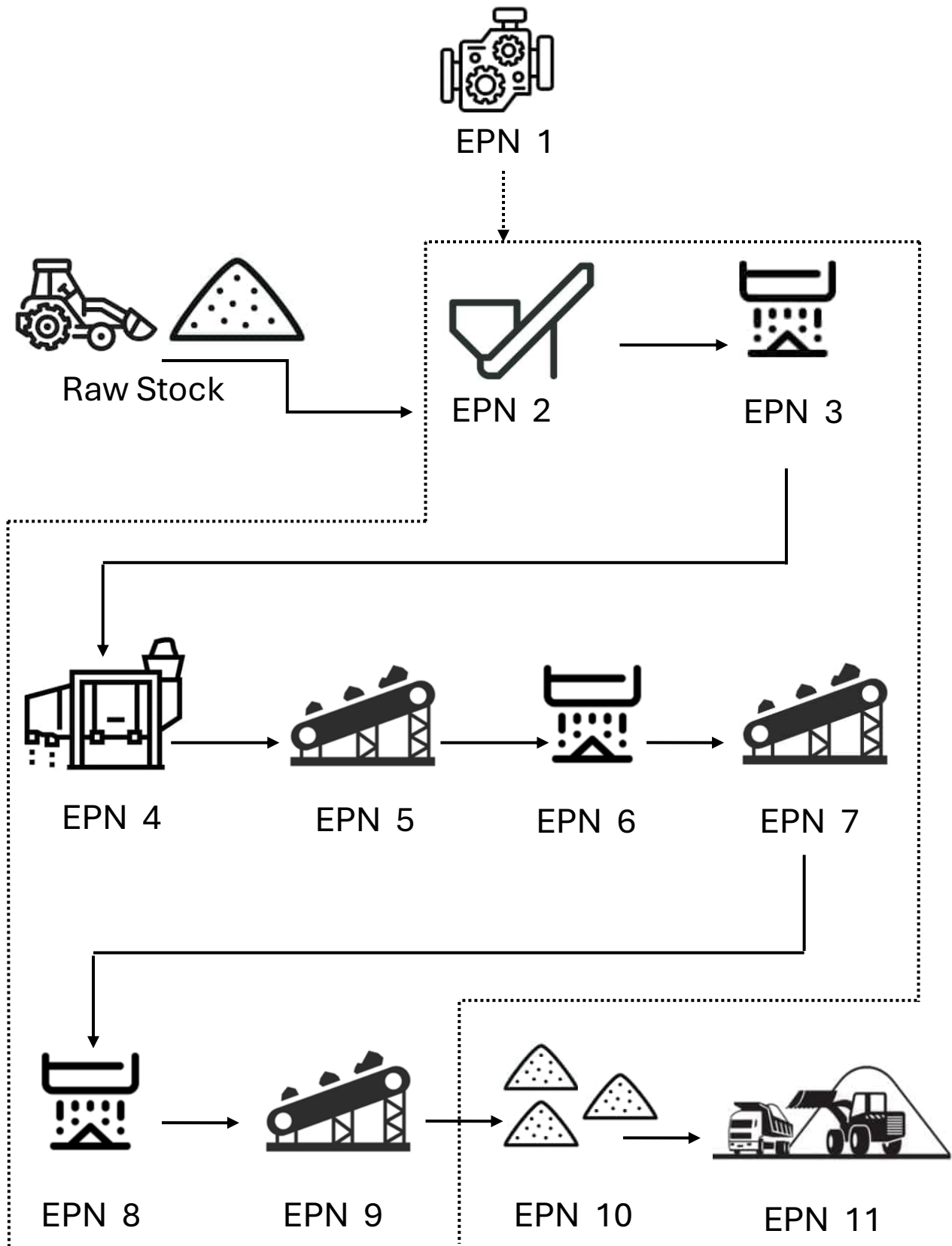


Exhibit C

Process Flow Diagram

EPN FLOW DIAGRAM



Comprehensive EPN List – Trakpactor 550 Rock Crusher Project

Facility: Portable Rock Crusher (Powerscreen Trakpactor 550)

Permit Type: TCEQ Standard Permit for Rock and Concrete Crushers

Prepared For: Form PI-1S / Form 20335 Attachment – EPN Summary Table

EPN	Source Name / Description	Emission Type / Pollutant	Control Device / Method	Regulatory Reference
1	Scania DC13 Diesel Engine Exhaust (Tier 4F, 494 hp)	NOx, CO, VOC, PM, SO2	Built-in engine controls (SCR, DOC); Tier 4F compliant	40 CFR 60 Subpart IIII; Nonroad CI Engine Standards
2	Primary Feed Hopper	PM10, PM2.5 (Fugitive Dust)	Water sprays at hopper lip	AP-42 11.19.2; NSPS OOO
3	Vibrating Grizzly Feeder	PM10, PM2.5	Spray bar over feeder	AP-42 11.19.2; NSPS OOO
4	Impact Crusher (Trakpactor 550)	PM10, PM2.5	Internal water sprays, housing enclosure	AP-42 11.19.2; 40 CFR 60 Subpart OOO
5	Crusher Discharge Conveyor #1	PM10, PM2.5	Spray nozzles, belt skirting	AP-42 11.19.2; 40 CFR 60 Subpart OOO
6	Vibratory Screen #1 (Primary)	PM10, PM2.5	Spray bar at screen decks	AP-42 11.19.2; 40 CFR 60 Subpart OOO
7	Transfer Conveyor #2	PM10, PM2.5	Full skirting, spray bar	AP-42 11.19.2; 40 CFR 60 Subpart OOO
8	Vibratory Screen #2 (Secondary/Fines)	PM10, PM2.5	Spray bar at screen decks	AP-42 11.19.2; 40 CFR 60 Subpart OOO
9	Final Product Conveyor #3	PM10, PM2.5	Spray bar at discharge, skirting	AP-42 11.19.2; 40 CFR 60 Subpart OOO

EPN	Source Name / Description	Emission Type / Pollutant	Control Device / Method	Regulatory Reference
10	Stockpile Drop Point / Loading	PM10, PM2.5 (Fugitive)	Water sprays at conveyor discharge, surface wetting	AP-42 13.2.4 (Aggregate Handling)
11	Pit Excavation and Loading Operations	PM10, PM2.5 (Fugitive)	Watering disturbed areas, minimize drop heights	AP-42 13.2.2

Non-EPN Fugitive Emission Sources – Unpaved Roads

Per TCEQ guidance, fugitive emissions from **unpaved haul and access roads** are not listed as individual EPNs because they are not considered discrete process emission points. These emissions are treated as site-wide fugitive sources controlled through best management practices. Controls include water truck application, a 15 mph speed limit, and use of dust suppressants during dry periods. Records of watering and maintenance are retained for compliance documentation but do not require EPN designation.

Control System Description (Not an EPN)

The water spray system serves as the primary control mechanism for dust suppression across all emission points. Operating at 3 bar pressure and 24 L/min, it feeds multiple atomizing nozzles positioned over the crusher, screens, conveyors, and transfer points. The water system includes frost protection, pump, and manifold assemblies to maintain consistent performance.

Recordkeeping and Monitoring

Daily logs document watering events, suppressant applications, and equipment maintenance. Each emission point is visually inspected per shift to verify effective control. Any malfunction or failure is corrected immediately, and actions are recorded. Records are maintained for a rolling 24-month period and made available to TCEQ upon request.

Process Description

Material handling at the site begins with caliche or aggregate being loaded from the **pit area (EPN 11)** into the **primary feed hopper (EPN 2)** using a front-end loader or excavator. From the hopper, material passes over the **vibrating grizzly feeder (EPN 3)**, which removes finer material and regulates flow into the **impact crusher (EPN 4)**. The Trakpactor 550 impact crusher reduces the feed material to the desired size using a twin-apron, four-bar impactor system.

The crushed material exits the crusher onto the **first conveyor (EPN 5)**, which transfers material to the **primary screen (EPN 6)**. This screen separates the crushed aggregate into multiple size fractions. Oversized material may be recirculated through the system for additional crushing if required, while correctly sized material is transferred via the **second conveyor (EPN 7)** to the **secondary screen (EPN 8)** for further refinement.

The secondary screen produces the final graded product, which is conveyed by the **final product conveyor (EPN 9)** to the **stockpile drop points (EPN 10)**. Each conveyor and screen is equipped with water spray bars, belt skirting, and covered transfer points to control particulate emissions. Water spray systems operate continuously during production to minimize visible dust emissions.

Final products are temporarily stored in multiple **aggregate stockpiles** near the discharge points of each conveyor. The piles are sprayed or misted with water to minimize windblown dust and shaped with stable slopes. Material from the stockpiles is later loaded into trucks for off-site delivery. The single **Scania DC13 diesel engine (EPN 1)** powers the crusher and associated equipment. Dust from pit excavation and material loading (EPN 11) is minimized through water application and operational controls.

All material handling and crushing operations are conducted under the requirements of **40 CFR Part 60, Subpart OOO** (Standards of Performance for Nonmetallic Mineral Processing Plants). Fugitive emissions from unpaved haul roads are addressed through site-wide best management practices and are not designated as individual EPNs under TCEQ guidance.

Simplified Process Flow Sequence (EPN Reference)

1. **EPN 1** – Scania DC13 Engine (Power Source)
2. **EPN 2** – Feed Hopper
3. **EPN 3** – Vibrating Grizzly Feeder
4. **EPN 4** – Impact Crusher (Trakpactor 550)

5. **EPN 5** – Conveyor #1 (Crusher Discharge)
6. **EPN 6** – Primary Screen
7. **EPN 7** – Conveyor #2 (Transfer to Secondary Screen)
8. **EPN 8** – Secondary Screen
9. **EPN 9** – Conveyor #3 (Final Product Transfer)
10. **EPN 10** – Stockpile Drop Points / Finished Product Storage
11. **EPN 11** – Pit Excavation and Material Loading

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
 - CRUSHER
 - CRUSHER SPECIFICATION
 - CRUSHER FEATURES
 - HOPPER
 - VIBRATING GRIZZLY FEEDER
 - PRODUCT CONVEYOR
 - POWER UNIT & HYDRAULICS
 - TRACKS
 - PLANT CONTROLS & OTHER
 - HAZEMAG IMPACT CRUSHER
 - HAZEMAG CRUSHER SPEC
 - HAZEMAG CRUSHER FEATURES
 - OPTIONS
 - OPTIONS 2
 - OPTIONS 3
 - POWERSCREEN® PULSE
 - DIMENSIONS

OVERVIEW

SPECIFICATION

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

- ▶ FEATURES & BENEFITS
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 - ▶ CRUSHER SPECIFICATION
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 - ▶ HAZEMAG CRUSHER FEATURES
- ▶ OPTIONS
 - ▶ OPTIONS 2
 - ▶ OPTIONS 3
- ▶ POWERSCREEN® PULSE
- ▶ DIMENSIONS



PRODUCT CONVEYOR

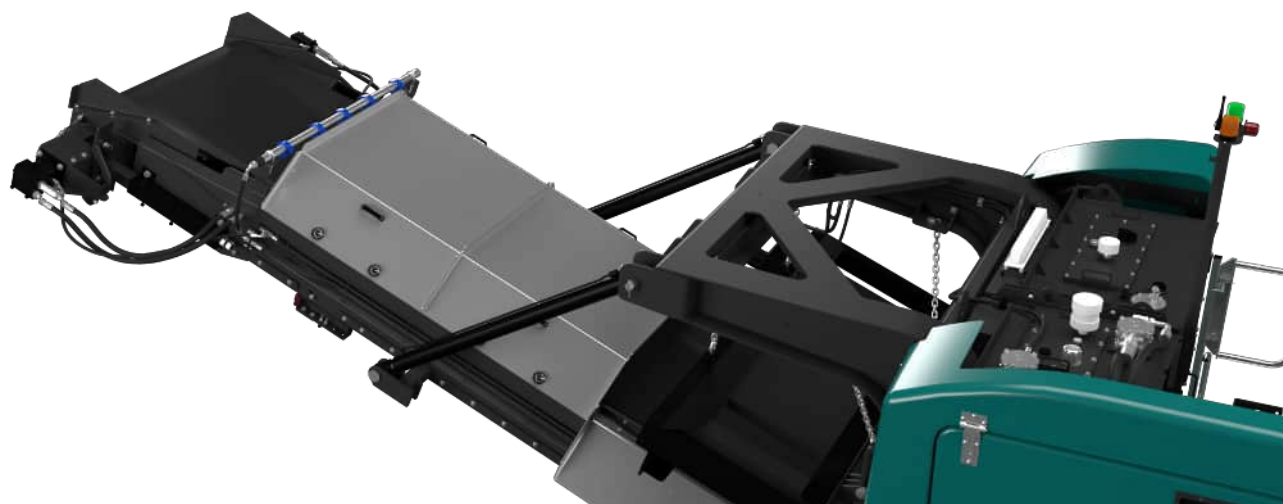
Conveyor type:	Fully removable modular unit with hydraulic raise & lower facility to increase clearance & simplify rebar removal. Shallow troughed with winged rollers & fully tunnelled with minimal snag areas
Belt type:	Ripstop EP500/3 8+2 with steel wire breaker ply
Belt width:	1200mm (3' 11")
Discharge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

Speed wheel:	the head drum 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.

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





TRAKPACTOR 550



OVERVIEW

- ▶ FEATURES & BENEFITS
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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 REVOL 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 REVOL 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





TRAKPACTOR 550



OVERVIEW

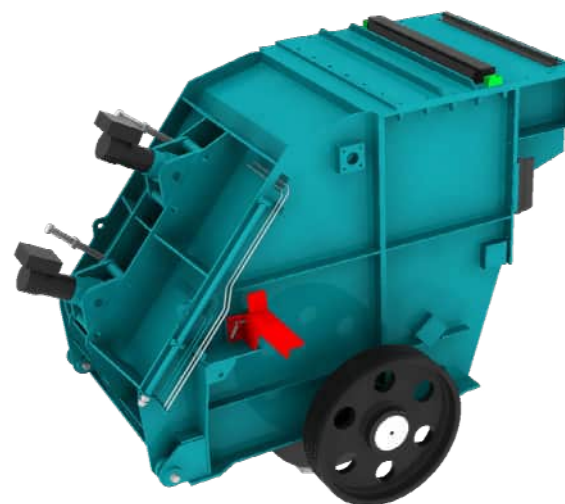
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- ▶ OPTIONS
 - ▶ OPTIONS 2
 - ▶ OPTIONS 3
- ▶ POWERSCREEN® PULSE
- ▶ DIMENSIONS



HAZEMAG CRUSHER SPECIFICATION

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

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





TRAKPACTOR 550



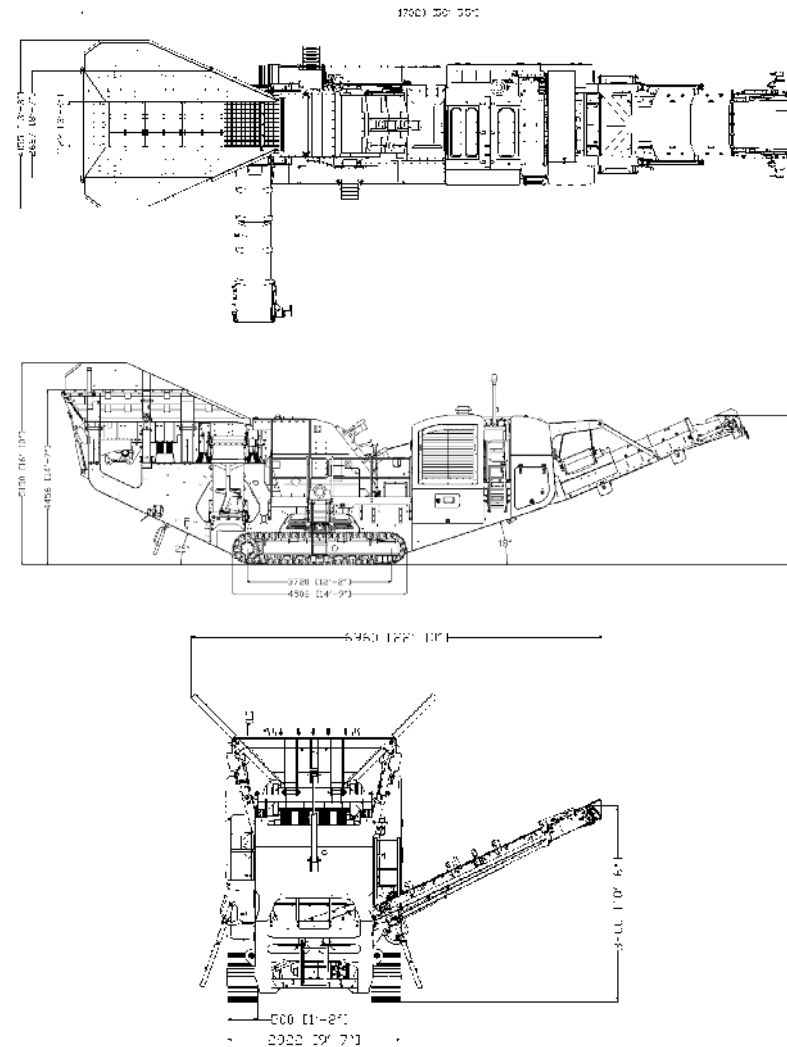
OVERVIEW

- ▶ FEATURES & BENEFITS
- ▶ CRUSHER
 - ▶ CRUSHER SPECIFICATION
 - ▶ CRUSHER FEATURES
- ▶ HOPPER
- ▶ VIBRATING GRIZZLY FEEDER
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 - ▶ HAZEMAG CRUSHER FEATURES
- ▶ OPTIONS
 - ▶ OPTIONS 2
 - ▶ OPTIONS 3
- ▶ POWERSCREEN® PULSE
- ▶ DIMENSIONS



DIMENSIONS

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



MORE DIMENSIONS OVERLEAF



 CALIFORNIA AIR RESOURCES BOARD	SCANIA CV AB	EXECUTIVE ORDER U-R-024-0034 New Off-Road 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):

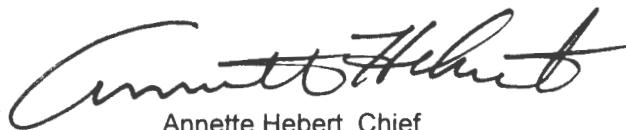
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			NMHC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
130 ≤ KW ≤ 560	Tier 4 Final	STD	0.19	0.40	N/A	3.5	0.02	N/A	N/A	N/A
		CERT	0.08	0.19	--	0.2	0.02	--	--	--

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- placement	4.Power kW @RPM	5.Fuel Rate: mm/stroke @ peak HP	6.Fuel Rate: (lbs/hr) @ peak HP	7.Torque Nm @ RPM	8.Fuel Rate: mm/stroke@ peak torque	9.Fuel Rate: (lbs/hr)@ 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



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

1. Reason for Submission (If other is checked please describe in space provided.)		
☒ New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
☐ Renewal (Core Data Form should be submitted with the renewal form)		☐ Other
2. Customer Reference Number (if issued)	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number (if issued)
CN 606402345		RN 112281167

SECTION II: Customer Information

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

18. Telephone Number	19. Extension or Code	20. Fax Number (if applicable)
(361) 449-6979		() -

SECTION III: Regulated Entity Information

21. General Regulated Entity Information (If 'New Regulated Entity' is selected, a new permit application is also required.)								
☒ New Regulated Entity ☐ Update to Regulated Entity Name ☐ 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>								
22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.)								
S Jolander Ranch								
23. Street Address of the Regulated Entity: (No PO Boxes)								
	City		State		ZIP		ZIP + 4	
24. County								

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

25. Description to Physical Location:	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							
26. Nearest City					State	Nearest ZIP Code		
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>								
27. Latitude (N) In Decimal:		28.625226			28. Longitude (W) In Decimal:		-98.312255	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds			
29. Primary SIC Code (4 digits)	30. Secondary SIC Code (4 digits)		31. Primary NAICS Code (5 or 6 digits)		32. Secondary NAICS Code (5 or 6 digits)			
1442			212321					
33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.)								
Caliche mining for road base								
34. Mailing Address:	6217 Hwy 281 PO Box 383							
	City	Three Rivers	State	Tx	ZIP	78071	ZIP + 4	
35. E-Mail Address:	90transportation@gmail.com							
36. Telephone Number	37. Extension or Code				38. Fax Number (if applicable)			
(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.

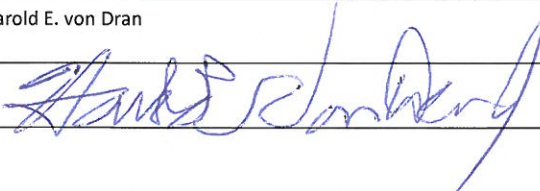
☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste
☐ Municipal Solid Waste	☒ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☐ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:

SECTION IV: Preparer Information

40. Name:	Harold (Ed) von Dran		41. Title:	President and Chief Engineer
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address	
(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.

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



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).

Please Check The Type of Facility: ☒ Rock Crusher ☐ Concrete Crusher	
CONDITION NUMBER AND DESCRIPTION	
(1)(B)	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? (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.)
☐ YES ☐ NO ☒ N/A	
(1)(C)(ii)	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?
☐ YES ☐ NO ☒ N/A	
(1)(D)	In lieu of meeting the distance requirements in (1)(B), will all the following occur:
(1)(D)(i)	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?
☐ YES ☐ NO ☒ N/A	
(1)(D)(ii)	Will this plant operate onsite for one period of 180 calendar days or less?
☐ YES ☐ NO ☒ N/A	
(1)(D)(iii)	Will all applicable conditions stated in commission rules, including operating conditions be met?
☐ YES ☐ NO ☒ N/A	
(1)(D)(iv)	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?
☐ YES ☐ NO ☒ N/A	
(1)(E)	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?
☐ YES ☒ NO ☐ N/A	



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

Please Check The Type of Facility: ☒ Rock Crusher ☐ Concrete Crusher		
CONDITION NUMBER AND DESCRIPTION (<i>continued</i>)		
(1)(F)	Is there a rock crusher (or concrete crusher) authorized under Texas Health and Safety Code (THSC) § 382.0518, Preconstruction Permit, at this site? 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?	☐ YES ☒ NO ☐ N/A ☐ YES ☒ NO ☐ N/A
(1)(G)	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? Is the company's compliance history rating poor?	☒ YES ☐ NO ☐ N/A ☐ YES ☒ NO ☐ N/A
(1)(H)	Has construction and/or operation begun on the facility? Is there a non operational crusher stored onsite?	☐ YES ☒ NO ☐ N/A ☐ YES ☒ NO ☐ N/A
(1)(I)	In accordance with 30 TAC § 116.614, Standard Permit Fees, was a \$900 fee sent to TCEQ Revenue Section?	☒ YES ☐ NO ☐ N/A
(1)(J)	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?	☒ YES ☐ NO ☐ N/A
(1)(K)	Will these crushing facilities only process nonmetallic minerals or a combination of nonmetallic minerals as described in 40 CFR Part 60, Subpart OOO?	☒ YES ☐ NO ☐ N/A
(1)(L)	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?	☐ YES ☐ NO ☒ N/A
(1)(M)	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? 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?	☒ YES ☐ NO ☐ N/A ☒ YES ☐ NO ☐ N/A



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

Please Check The Type of Facility: ☒ Rock Crusher ☐ Concrete Crusher		
CONDITION NUMBER AND DESCRIPTION (<i>continued</i>)		
(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?	☒ YES ☐ NO ☐ N/A
(1)(P)	Have maintenance emissions been authorized? (Maintenance emissions are not included in this permit and must be approved under separate authorization.) 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.) Will start-up and shutdown emissions exceed those expected during production operations?	☐ YES ☐ NO ☒ N/A ☐ YES ☐ NO ☒ N/A ☐ YES ☒ NO ☐ 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?	☐ YES ☒ NO ☐ N/A
PUBLIC NOTICE REQUIREMENTS - Detailed Public Notice Information will be Sent upon Determination of Technical Completeness		
(2)(B)(i)	Will public notice be published no later than 30 days after the application is determined to be technically complete?	☒ YES ☐ NO ☐ N/A
OPERATIONAL REQUIREMENTS		
(3)(A)	Will the primary crusher throughput exceed 200 tons per hour?	☐ YES ☒ NO ☐ 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?	☐ YES ☒ NO ☐ 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? (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).	☒ YES ☐ NO ☐ N/A



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

Please Check The Type of Facility: ☒ Rock Crusher ☐ Concrete Crusher		
OPERATIONAL REQUIREMENTS (continued)		
(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? 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?	☐ YES ☐ NO ☒ N/A ☐ YES ☐ NO ☒ 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?	☒ YES ☐ NO ☐ 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? (Equipment that is not a source of emissions does not require authorization.)	☐ YES ☒ NO ☐ 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?	☐ YES ☒ NO ☐ 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?	☐ YES ☒ NO ☐ N/A
(3)(I)	Will all crushers be equipped with runtime meters and will the runtime meters be operating during crushing operations?	☒ YES ☐ NO ☐ 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?	☒ YES ☐ NO ☐ 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? Will opacity of emissions from any crusher exceed 15 percent, averaged over a six-minute period as determined using EPA Test Method 9?	☐ YES ☒ NO ☐ N/A ☐ YES ☒ NO ☐ 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?	☐ YES ☒ NO ☐ N/A



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

Please Check The Type of Facility: ☒ Rock Crusher ☐ Concrete Crusher	
OPERATIONAL REQUIREMENTS <i>(continued)</i>	
(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? ☐ YES ☒ NO ☐ N/A
(3)(M)(ii)	Dust-suppressant chemicals? ☒ YES ☐ NO ☐ N/A
(3)(M)(iii)	Water? ☒ YES ☐ NO ☐ N/A
(3)(M)(iv)	Paved with a cohesive hard surface that is maintained intact and cleaned? ☐ YES ☒ NO ☐ N/A
(3)(N)	Will all stockpiles be sprinkled with water, dust-suppressant chemicals, or covered, as necessary, to minimize dust emissions? ☒ YES ☐ NO ☐ N/A
(3)(O)	Will raw material and product stockpile heights exceed 45 ft? ☐ YES ☒ NO ☐ N/A
(3)(P)	Will the crusher be equipped with a weigh hopper or scale belt that accurately determines the mass of material being crushed? ☒ YES ☐ NO ☐ N/A
(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? ☒ YES ☐ NO ☐ N/A

Print Form

Reset Form



Texas Commission on Environment Quality

Table 17
Rock Crushers

Please Complete the Following				
Maximum operating schedule:	10	hours/day	5	days/week
			52	weeks/year
Does the facility operate at night?				☐ YES ☒ NO
Maximum Plant Production Rates:				
☒ Primary Crusher	Type: Trakpactor 550	200	tons/hour	520000 tons/year
☐ Secondary Crusher(s)	Type:		tons/hour	tons/year
☐ Tertiary Crusher(s)	Type:		tons/hour	tons/year
The Following Pieces of Equipment will be Controlled as Shown:				
Feed Hoppers:	☐ None	☒ Water Spray	☐ Suction to Baghouse	☐ Other: _____
All Belt Transfer Points:	☐ None	☒ Water Spray	☐ Suction to Baghouse	☐ Other: _____
Inlet of all Crushers:	☐ None	☒ Water Spray	☐ Suction to Baghouse	☐ Other: _____
Outlet of all Crushers:	☐ None	☒ Water Spray	☐ Suction to Baghouse	☐ Other: _____
All Shaker Screens:	☐ None	☒ Water Spray	☐ Suction to Baghouse	☐ Other: _____
If Water Sprays are used, Provide the Following Data:				
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:		☐ None	☒ Water	☐ Chemical
In-plant roads will be:		☐ Paved and Vacuumed	☐ Paved and Swept	☐ Oiled
☒ Sprinkled with Water and/or Chemicals		☐ Other: _____		

PRINT FORM

RESET FORM

Texas Commission on Environmental Quality
Table 29 Reciprocating Engines

I. Engine Data											
Manufacturer: Scania		Model No. DC13 Tier 4f		Serial No. Unkown		Manufacture Date:					
Rebuilds Date:		No. of Cylinders: 6		Compression Ratio: 17.5:1		EPN: DC13 085A					
Application: ☒ Gas Compression ☐ Electric Generation ☐ Refrigeration ☐ Emergency/Stand by ☒ 4 Stroke Cycle ☐ 2 Stroke Cycle ☐ Carbureted ☐ Spark Ignited ☐ Dual Fuel ☐ Fuel Injected ☒ Diesel ☐ Naturally Aspirated ☐ Blower /Pump Scavenged ☐ Turbo Charged and I.C. ☒ Turbo Charged ☐ Intercooled ☐ I.C. Water Temperature ☐ Lean Burn ☐ Rich Burn											
Ignition/Injection Timing:				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					
II. Fuel Data											
Type of Fuel: ☐ Field Gas ☐ Landfill Gas ☐ LP Gas ☐ Natural Gas ☐ Digester Gas ☒ 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											
III. Emission Factors (Before Control)											
NO _x		CO		SO ₂		VOC		Formaldehyde		PM ₁₀	
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: ☐ Manufacturer Data ☐ AP-42 ☒ Other (specify): State of California, Title 13											
IV. Emission Factors (Post Control)											
NO _x		CO		SO ₂		VOC		Formaldehyde		PM ₁₀	
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: ☐ NSCR Catalyst ☐ Lean Operation ☐ Parameter Adjustment ☐ Stratified Charge ☐ JLCC Catalyst ☒ Other (Specify): SCR and EGR											
Note: Must submit a copy of any manufacturer control information that demonstrates control efficiency.											
Is Formaldehyde included in the VOCs?										☐ Yes ☒ No	
V. Federal and State Standards (Check all that apply)											
☐ NSPS JJJJ ☐ MACT ZZZZ ☒ NSPS IIII ☐ Title 30 Chapter 117 - List County: _____											
VI. Additional Information											
1. Submit a copy of the engine manufacturer's site rating or general rating specification data. 2. Submit a typical fuel gas analysis, including sulfur content and heating value. For gaseous fuels, provide mole percent of constituents. 3. Submit description of air/fuel ratio control system (manufacturer information is acceptable).											

Reset Form

Print Form

Texas Commission on Environmental Quality
Air Quality Standard Permits
General Requirements Checklist
Title 30 Texas Administrative Code §§116.610-116.615

Check the most appropriate answer and include any additional information in the spaces provided. If additional space is needed, please include an extra page and reference the rule number. The SP forms, tables, checklists, and guidance documents are available from the TCEQ, Air Permits Division web site at:

www.tceq.texas.gov/permitting/air/nav/standard.html.

Most Standard Permits require registration with the commission's Office of Permitting, Remediation, and Registration in Austin. The facilities and/or changes to facilities can be registered by completing a [Form PI-1S](#), "Registration for Air Standard Permit." This checklist should accompany the registration form to expedite any registration review.

CHECK THE MOST APPROPRIATE ANSWERS AND FILL IN THE REQUESTED INFORMATION		
Rule	Questions/Description	Response
116.610(a)(1)	Are there net emissions increases associated with this registration?	☒ YES ☐ NO
	<i>If "YES," will net emission increases of air contaminants from the project, other than those for which a National Ambient Air Quality Standard (NAAQS) has been established, meet the emission limits of § 106.261 or § 106.262?</i>	☒ YES ☐ NO
	<i>If "NO," does the specific standard permit exempt emissions from this limit?</i>	☐ YES ☐ NO
Attach emissions summary and calculations:		
116.610(a)(3)	Do any of the Title 40 Code of Federal Regulations Part (CFR) 60, New Source Performance Standards apply to this registration?	☐ YES ☒ NO
<i>If "YES," list subparts:</i>		
116.610 (a)(4)	Do any Hazardous Air Pollutant requirements apply to this registration?	☐ YES ☒ NO
<i>If "YES," list subparts</i>		
116.610 (a)(5)	Do any maximum achievable control technology (MACT) standards as listed under 40 CFR Part 63 or Chapter 113, Subchapter C (National Emissions Standard for Hazardous Air for Source Categories) apply to this registration?	☐ YES ☒ NO
<i>If "YES," list subparts:</i>		
116.610(a)(6)	Will additional emission allowances under Chapter 101, Subchapter H, Division 3, Emissions Banking and Trading, need to be obtained following this registration?	☐ YES ☒ NO
116.611(a)(1-6)	Is the following documentation included with this registration:	☒ YES ☐ NO
	Emissions calculations including the basis of the calculations?	☒ YES ☐ NO
	Quantification of all emission increases and/or decreases associated with this project?	☒ YES ☐ NO
	Sufficient information demonstrating that this project does not trigger PSD or NNSR review?	☒ YES ☐ NO
	Description of efforts to minimize collateral emissions increases associated with this project?	☒ YES ☐ NO
	Process descriptions including related processes?	☒ YES ☐ NO
	Description of any equipment being installed?	☒ YES ☐ NO

Texas Commission on Environmental Quality
Air Quality Standard Permits
General Requirements Checklist
Title 30 Texas Administrative Code §§116.610-116.615

Rule	Question/Description	Response
116.614	Are the required fee and a copy of the check or money order provided with the application?	☒ YES ☐ NO
116.615(1)	Will emissions from the facility comply with all applicable rules and regulations of the commission adopted under Texas Health and Safety Code, Chapter 382, and with the intent of the Texas Clean Air Act?	☒ YES ☐ NO
116.615(2)	Do you understand that all representations with regard to construction plans, operating procedures, and maximum emission rates in this registration become conditions upon which the facility will be constructed and operated?	☒ YES ☐ NO
116.615(3)	Do you understand that all changes authorized by this registration need to be incorporated into the facility's permit if the facility is currently permitted under §116.110 (relating to Applicability)?	☒ YES ☐ NO
<i>List all related permit numbers:</i>		
116.615(9)617(e)(1)	Will all air pollution emission capture and abatement equipment be maintained in good working order?	☒ YES ☐ NO
116.615(10)	Will the facility comply with all applicable rules and regulations of the TCEQ, the Texas Health and Safety Code, Chapter 382, and the Texas Clean Air Act?	☒ YES ☐ NO

Save Form

Reset Form

Print Form

From: Ed vonDran <evondran@atei97.com>
Sent: Monday, October 27, 2025 5:41 PM
To: Andres Targa; 90TRANSPORTATION@GMAIL.COM; Matt Wilmot
Cc: Kimberly Cunningham
Subject: Re: Update for 181766_398884 Raider Aggregates Air Permit and Public Notice

Categories: GTG WCC

Thank you Andres, we look forward to working with you. Please don't hesitate to contact us through the process with any questions you may have.

Get [Outlook for iOS](#)

From: Andres Targa <Andres.Targa@tceq.texas.gov>
Sent: Monday, October 27, 2025 3:38:23 PM
To: 90TRANSPORTATION@GMAIL.COM <90TRANSPORTATION@GMAIL.COM>; Matt Wilmot <mwilmot@atei97.com>; Ed vonDran <evondran@atei97.com>
Cc: Kimberly Cunningham <Kimberly.Cunningham@tceq.texas.gov>
Subject: RE: Update for 181766_398884 Raider Aggregates Air Permit and Public Notice

You don't often get email from andres.targa@tceq.texas.gov. [Learn why this is important](#)

Good afternoon,

Please clarify who is the technical contact for the referenced standard permit application. I reached out to Mr. Harold E Von Dran on 10/14/2025 with my contact information in case you have any questions regarding the technical review portion of this permit application. Please note the technical contact is responsible for communicating with me during the technical review process.

Sincerely,

Andres Targa Mallona
Mechanical New Source Review
Environmental Permit Specialist
Air Permits Division
Texas Commission on Environmental Quality
Mail Code: MC-163, PO Box 13087
Austin, Texas 78711-3087
Direct Line: (512) 239-6107





How are we doing? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

From: Kimberly Cunningham <Kimberly.Cunningham@tceq.texas.gov>
Sent: Monday, October 27, 2025 3:06 PM
To: Andres Targa <Andres.Targa@tceq.texas.gov>
Subject: Update for 181766_398884 Raider Aggregates Air Permit and Public Notice

Andres,

Below is my correspondence with Mr. Wilmont. (He had my info from a previous project.) He would like an update on the permanent rock crusher project.

Thanks,
Kimberly Cunningham

From: Kimberly Cunningham <Kimberly.Cunningham@tceq.texas.gov>
Sent: Monday, October 27, 2025 3:03 PM
To: Matt Wilmot <mwilmot@atei97.com>
Cc: Ed vonDran <>
Subject: Raider Aggregates Air Permit and Public Notice

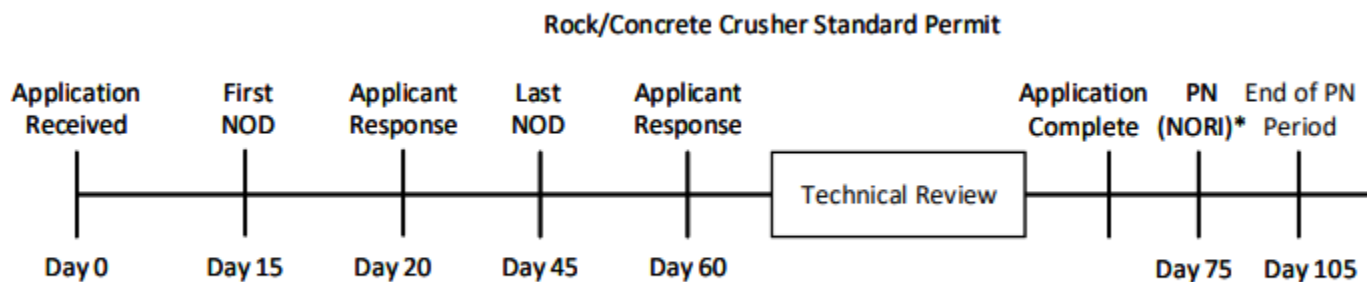
Mr. Wilmont,

I'm sorry I missed your phone call. Thank you for emailing as a follow-up.

The technical team work on your permit now. Below is a general timeline for rock crushers.

I will forward your update request to the technical team.

Thanks,
Kimberly Cunningham



Note: Registration will be approved or denied no later than the 30th day after the end of the

From: Matt Wilmot <mwilmot@atei97.com>
Sent: Monday, October 27, 2025 2:38 PM
To: Kimberly Cunningham <Kimberly.Cunningham@tceq.texas.gov>
Cc: Ed vonDran <evondran@atei97.com>
Subject: Raider Aggregates Air Permit and Public Notice

Good afternoon, Kimberly

I'm sending this email as a follow up to a message I just left on your answering machine.

We are requesting an update as a follow-up for the permit application that was submitted at the beginning of October and would like to know how soon we should expect a decision. Additionally, how soon should we expect to receive the public notice package?

For your reference the permit number is 181766 (Raider Aggregates Limited Liability Company, S Jolander Ranch). At this time it is considered Administratively Complete.

Thank you in advance for any info you can provide.

Matt Wilmot, GIT
Project Geologist



Office: 210-930-2834

Mobile: 210-386-1474

Email: mwilmot@atei97.com

8626 Tesoro Drive Suite 810
San Antonio, TX 78217
www.atei97.com



TBPE F-8920; Arch BR-1889; TBPG 50647

This message and any attachments are intended only for the use of the addressee and may contain information that is privileged and confidential. If the reader of the message is not the intended recipient or an authorized representative of the intended recipient, you are hereby notified that any dissemination of this communication is strictly prohibited. If you have received this communication in error, notify the sender immediately by return email and delete the message and any attachments from your system.

From: Andres Targa
Sent: Tuesday, October 14, 2025 10:08 AM
To: EVONDRAN@ATEI97.COM
Subject: 181766 398884 Raider Aggregates LLC.

Categories: GTG WCC

Good morning,

My name is Andres Targa, and I am the Permit Reviewer assigned to review the technical portion of this application.

If you have any questions regarding the status of your application, please let me know. Once I complete the review I will be reaching out with the next steps.

Sincerely,

Andres Targa Mallona

Mechanical New Source Review

Environmental Permit Specialist

Air Permits Division

Texas Commission on Environmental Quality

Mail Code: MC-163, PO Box 13087

Austin, Texas 78711-3087

Direct Line: (512) 239-6107



How are we doing? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

From: Miguel Gallegos
Sent: Thursday, October 9, 2025 3:49 PM
To: Joe Nicosia
Subject: New Project Assignment - Currently in Initial Review Process - 181766_398884

181766_398884 is located at APD 398884s *Mechanical-Coatings*\Team Leader. Please assign a reviewer and move the project folder to APD 398884s *Mechanical-Coatings*\Assigned Reviewer's Folder.

Thank you!

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
Full legal name of the applicant:	
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
Responsible Authority Contact	
Organization Name	Raider Aggregates Limited Liability Company
Prefix	MR
First	Matthew
Middle	
Last	Muniz
Suffix	
Credentials	
Title	Owner
Responsible Authority Mailing Address	
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:	
Mailing Address	
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

1. Reason for Submission (If other is checked please describe in space provided.)		
☒ New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
☐ Renewal (Core Data Form should be submitted with the renewal form)	☐ Other	
2. Customer Reference Number (if issued)	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number (if issued)
CN 606402345		RN 112281167

SECTION II: Customer Information

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

18. Telephone Number	19. Extension or Code	20. Fax Number (if applicable)
(361) 449-6979		() -

SECTION III: Regulated Entity Information

21. General Regulated Entity Information (If 'New Regulated Entity' is selected, a new permit application is also required.)								
☒ New Regulated Entity ☐ Update to Regulated Entity Name ☐ 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>								
22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.)								
S Jolander Ranch								
23. Street Address of the Regulated Entity: (No PO Boxes)								
	City		State		ZIP		ZIP + 4	
24. County								

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

25. Description to Physical Location:	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							
26. Nearest City					State	Nearest ZIP Code		
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>								
27. Latitude (N) In Decimal:		28.618588			28. Longitude (W) In Decimal:		-98.299088	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds			
29. Primary SIC Code (4 digits)	30. Secondary SIC Code (4 digits)		31. Primary NAICS Code (5 or 6 digits)		32. Secondary NAICS Code (5 or 6 digits)			
1442			212321					
33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.)								
Caliche mining for road base								
34. Mailing Address:	6217 Hwy 281 PO Box 383							
	City	Three Rivers	State	Tx	ZIP	78071	ZIP + 4	
35. E-Mail Address:	90transportation@gmail.com							
36. Telephone Number	37. Extension or Code				38. Fax Number (if applicable)			
(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.

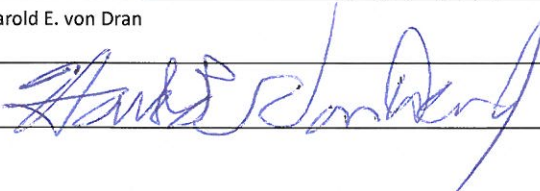
☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste
☐ Municipal Solid Waste	☒ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☐ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:

SECTION IV: Preparer Information

40. Name:	Harold (Ed) von Dran		41. Title:	President and Chief Engineer
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address	
(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.

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

Form PI-1S
Registrations for Air Standard Permit
(Page 1)
Texas Commission on Environmental Quality

I. Registrant Information
A. Company or Other Legal Customer Name: Raider Aggregates LLC.
B. Company Official Contact Information: ☒ Mr. ☐ Mrs. ☐ Ms. ☐ 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 ☒ Mr. ☐ Mrs. ☐ Ms. ☐ 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

Form PI-1S
Registrations for Air Standard Permit
(Page 2)
Texas Commission on Environmental Quality

I. Registrant Information (continued)
C. Technical Contact Information (continued)
Telephone Number: 210-326-6991
Fax Number:
Email Address: evondran@atei97.com
II. Facility and Site Information
A. Name and Type of Facility
Facility Name: S. Jolander Ranch / Raider Aggregates Caliche Pit
Type of Facility: ☒ Permanent ☐ Temporary
For portable units, please provide the serial number of the equipment being authorized below. 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 (required for Standard Permits 6006, 6007, and 6013).
Is the Core Data Form (TCEQ Form 10400) attached? ☒ Yes ☐ No
Customer Reference Number (CN): 606402345
Regulated Entity Number (RN): 112281167
D. TCEQ Account Identification Number (if known):

Form PI-1S
Registrations for Air Standard Permit
(Page 3)
Texas Commission on Environmental Quality

II. Facility and Site Information (continued)
E. Type of Action ☒ Initial Application ☐ Change to Registration ☐ Renewal ☐ Renewal Certification
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? ☐ Yes ☒ No
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? ☐ Yes ☒ No
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):

Form PI-1S
Registrations for Air Standard Permit
(Page 4)
Texas Commission on Environmental Quality

II. Facility and Site Information (<i>continued</i>)
I. Other Air Preconstruction Permits
Are there any other air preconstruction permits at this site? ☐ Yes☒ No
If "Yes," enter permit number(s) in the spaces provided below.
J. Affected Air Preconstruction Permits
Does the standard permit directly affect any permitted facility? ☐ Yes☒ No
If "Yes," enter permit number(s) in the spaces provided below.
K. Federal Operating Permit (FOP) Requirements
Is this facility located at a site that is required to obtain a FOP pursuant to 30 TAC Chapter 122? ☐ Yes☒ No☐ To Be Determined
Check the requirements of 30 TAC Chapter 122 that will be triggered if this standard permit is approved (<i>check all that apply</i>). ☐ Initial Application for a FOP ☐ Significant Revision for a SOP ☐ Minor Revision for a SOP ☐ Operational Flexibility/Off Permit Notification for a SOP ☐ Revision for a GOP ☐ To be Determined ☒ None
Identify the type(s) of FOP issued and/or FOP application(s) submitted/pending for the site. (<i>check all that apply</i>) ☐ SOP ☐ SOP application/revision (submitted or under APD review) ☐ GOP ☐ GOP application/revision (submitted or under APD review) ☒ N/A

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(Page 5)
Texas Commission on Environmental Quality

III. Fee Information (go to www.tceq.texas.gov/epay to pay online)
A. Fee Amount: \$900
B. Voucher number from ePay: Payment through STEERS
IV. Public Notice (if applicable)
A. Responsible Person ☒ Mr. ☐ Mrs. ☐ Ms. ☐ 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 ☒ Mr. ☐ Mrs. ☐ Ms. ☐ 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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(Page 6)
Texas Commission on Environmental Quality

IV. Public Notice (if applicable)
B. Technical Contact
Telephone Number: 210-930-2834
Fax Number:
Email Address: evondran@atei97.com
C. Bilingual Notice
Is a bilingual program required by the Texas Education Code in the School District? ☐ Yes ☒ 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? ☐ Yes ☒ No
If "Yes," list which language(s) are required by the bilingual program below? Language(s): _____ Language(s): _____
D. Small Business Classification and Alternate Public Notice
Does this company (including parent companies and subsidiary companies) have fewer than 100 employees or less than \$6 million in annual gross receipts? ☒ Yes ☐ No
Is the site a major source under 30 TAC Chapter 122, Federal Operating Permit Program? ☐ Yes ☒ No
Are the site emissions of any individual regulated air contaminant equal to or greater than 50 tpy? ☐ Yes ☒ No
Are the site emissions of all regulated air contaminant combined equal to or greater than 75 tpy? ☐ Yes ☒ No

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Registrations for Air Standard Permit
(Page 7)
Texas Commission on Environmental Quality

V. Renewal Certification Option	
A.	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? ☐ Yes ☒ No
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)? ☐ Yes ☒ No
C.	Does the company and/or site have an unsatisfactory compliance history? ☐ Yes ☒ No
D.	Are there any applications currently under review for this standard permit registration? ☐ Yes ☒ No
E.	Are scheduled maintenance, startup, or shutdown emissions required to be included in the standard permit registration at this time? ☐ Yes ☒ No
F.	Are any of the following actions being requested at the time of renewal: ☐ Yes ☒ No
1.	Are there any facilities that have been permanently shut down that are proposed to be removed from the standard permit registration? ☐ Yes ☒ No
2.	Do changes need to be made to the standard permit registration in order to remain in compliance? ☐ Yes ☒ 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? ☐ Yes ☒ No
4.	Are there any changes to the current emission rates table being proposed? ☐ Yes ☒ 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 cannot 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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(Page8)
Texas Commission on Environmental Quality

VI. Technical Information Including State and Federal Regulatory Requirements
Place a check next to the appropriate box to indicate what you have included in your submittal. <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>
A. Standard Permit requirements (Checklists are optional; however, your review will go faster if you provide applicable checklists.)
Did you demonstrate that the general requirements in 30 TAC §§116.610 and 116.615 are met? ☒ Yes ☐ No
Did you demonstrate that the individual requirements of the specific standard permit are met? ☒ Yes ☐ No
B. Confidential Information (All pages properly marked "CONFIDENTIAL"). ☒ Yes ☐ No
C. Process Flow Diagram. ☒ Yes ☐ No
D. Process Description. ☒ Yes ☐ No
E. Maximum Emissions Data and Calculations. ☒ Yes ☐ No
F. Plot Plan. ☒ Yes ☐ No
G. Projected Start of Construction Date, Start of Operation Date, and Length of Time at Site: ☒ Yes ☐ No
Projected Start of Construction (provide date): October 15, 2025
Projected Start of Operation (provide date): November 15, 2025
Length of Time at the Site: 7 years

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Registrations for Air Standard Permit
(Page 9)
Texas Commission on Environmental Quality

VII. Delinquent Fees and Penalties

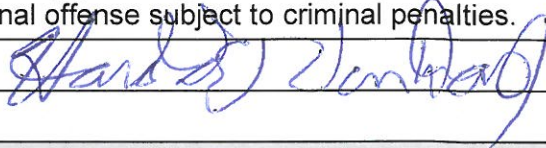
This form **will not be processed** until all delinquent fees and/or penalties owed to TCEQ or the Office of the Attorney General on behalf of TCEQ are paid in accordance with the Delinquent Fee and Penalty Protocol. For more information regarding Delinquent Fees and Penalties, go to the TCEQ website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

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/

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 ¹	AP-42 EF (lb/hp-hr) ¹
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	Northing	28.62255	Easting	-98.300657
		¹ TCEQ Technical Guidance and U.S. EPA AP-42, Section 11.19.2		
		² From the State of California Resources Board		

System Parameters

AP-42 EF (lb/VMT) ¹		*Engine Exhaust AP-42 ²	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
Elevation	214			

System Parameters

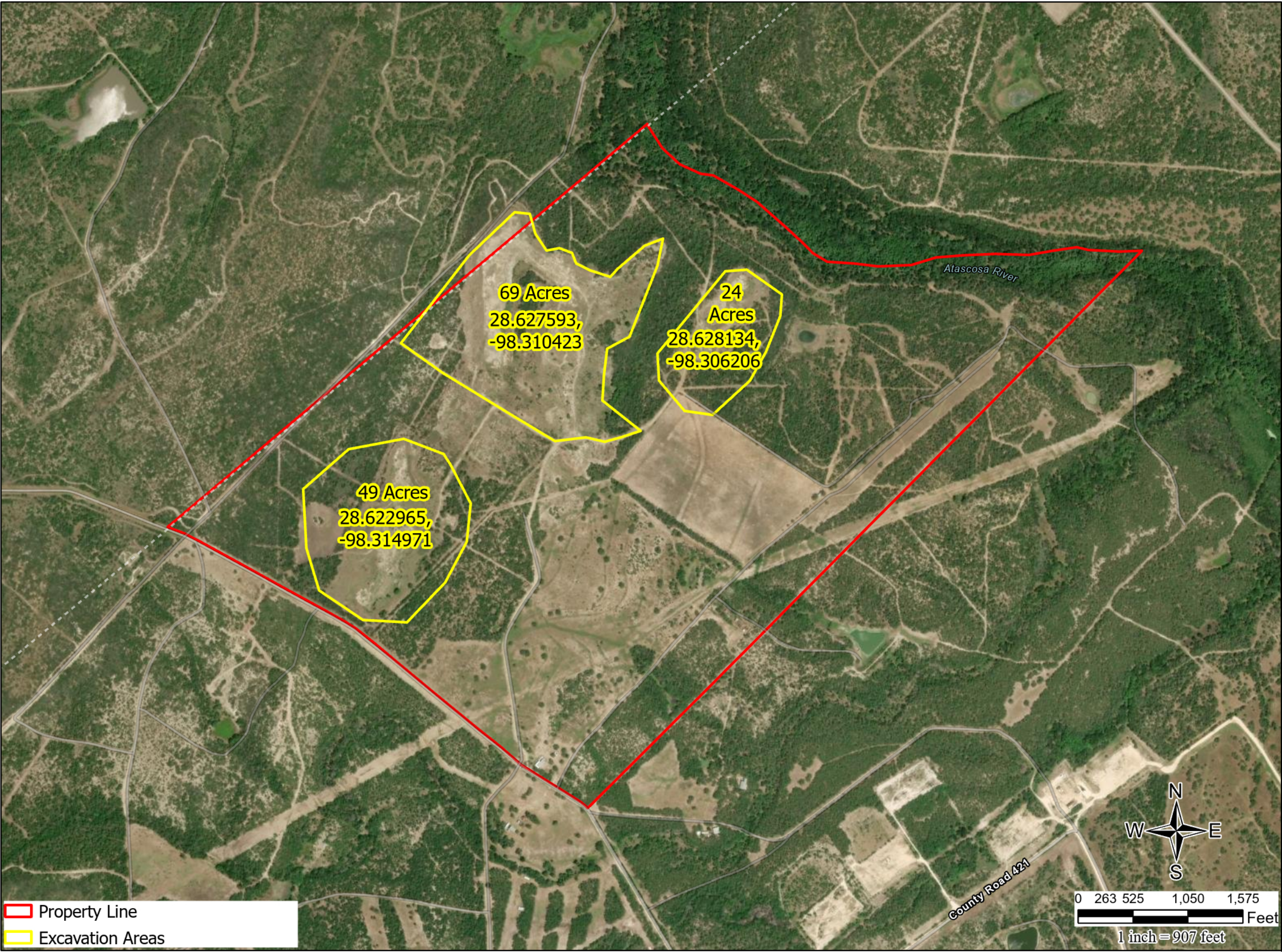
EPN	Description	NO _x	CO	NMHC	PM ₁₀	
Crushing	Rock Crushing Activities	0.00	0.00	0.00	1.43	
Screening	Sorting of Aggregates by Size	0.00	0.00	0.00	0.58	
Engine Exhaust	Exhaust from Crusher Generator or Engine	0.35	3.04	0.16	0.02	
Unpaved Roads	Particulate Generated by use of Unpaved Roads	0.00	0.00	0.00	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

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

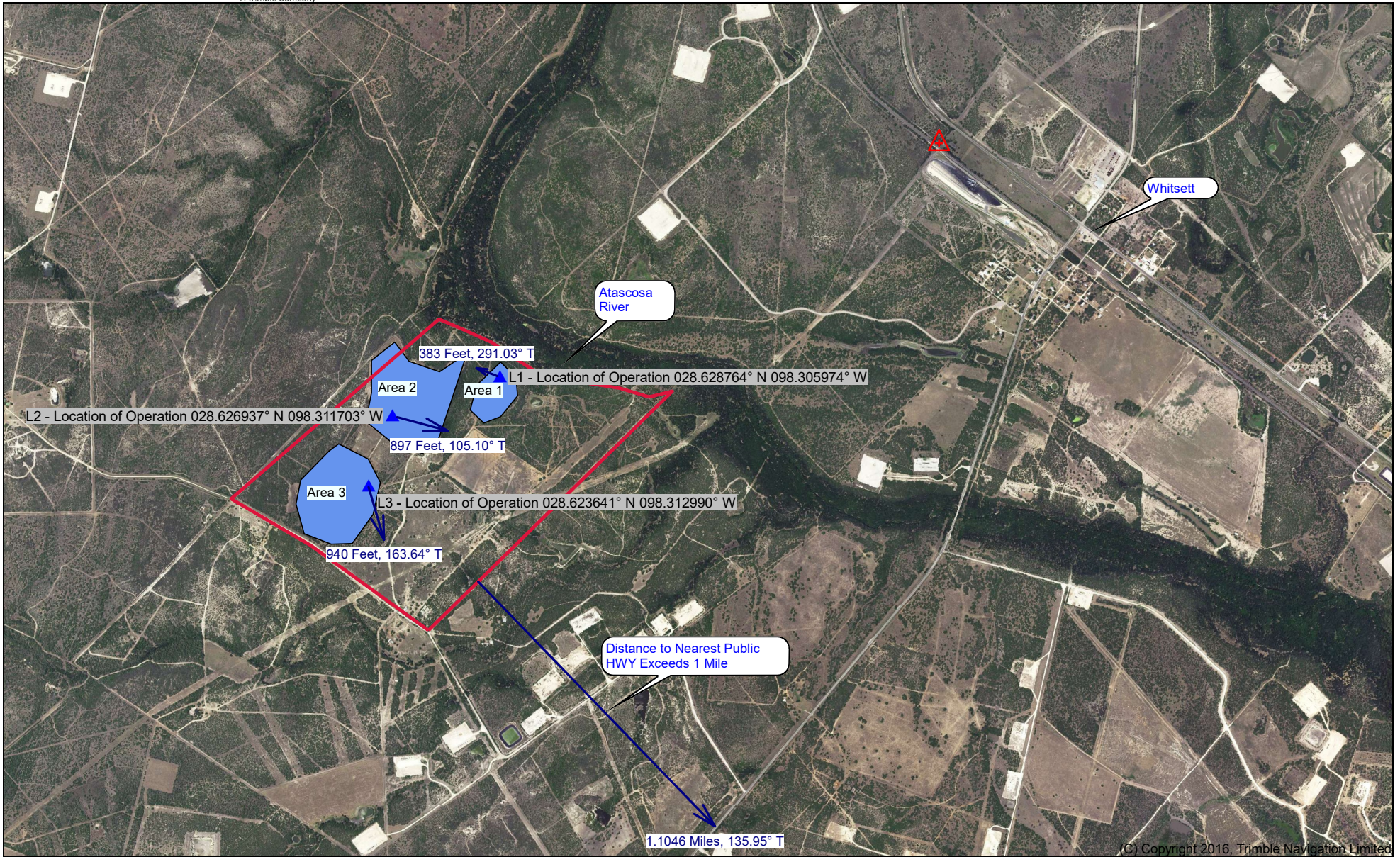
(Satellite Image (Hybrid Street))

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
(Satellite Image (Hybrid Street))



028.606089° N +
098.332458° W

(Satellite Image (Hybrid Street))

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

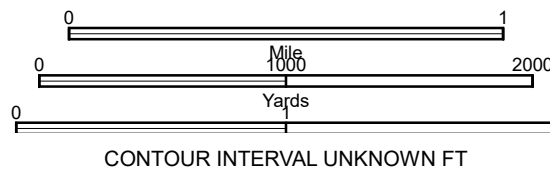
North American 1983 Datum (NAD83)

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 +

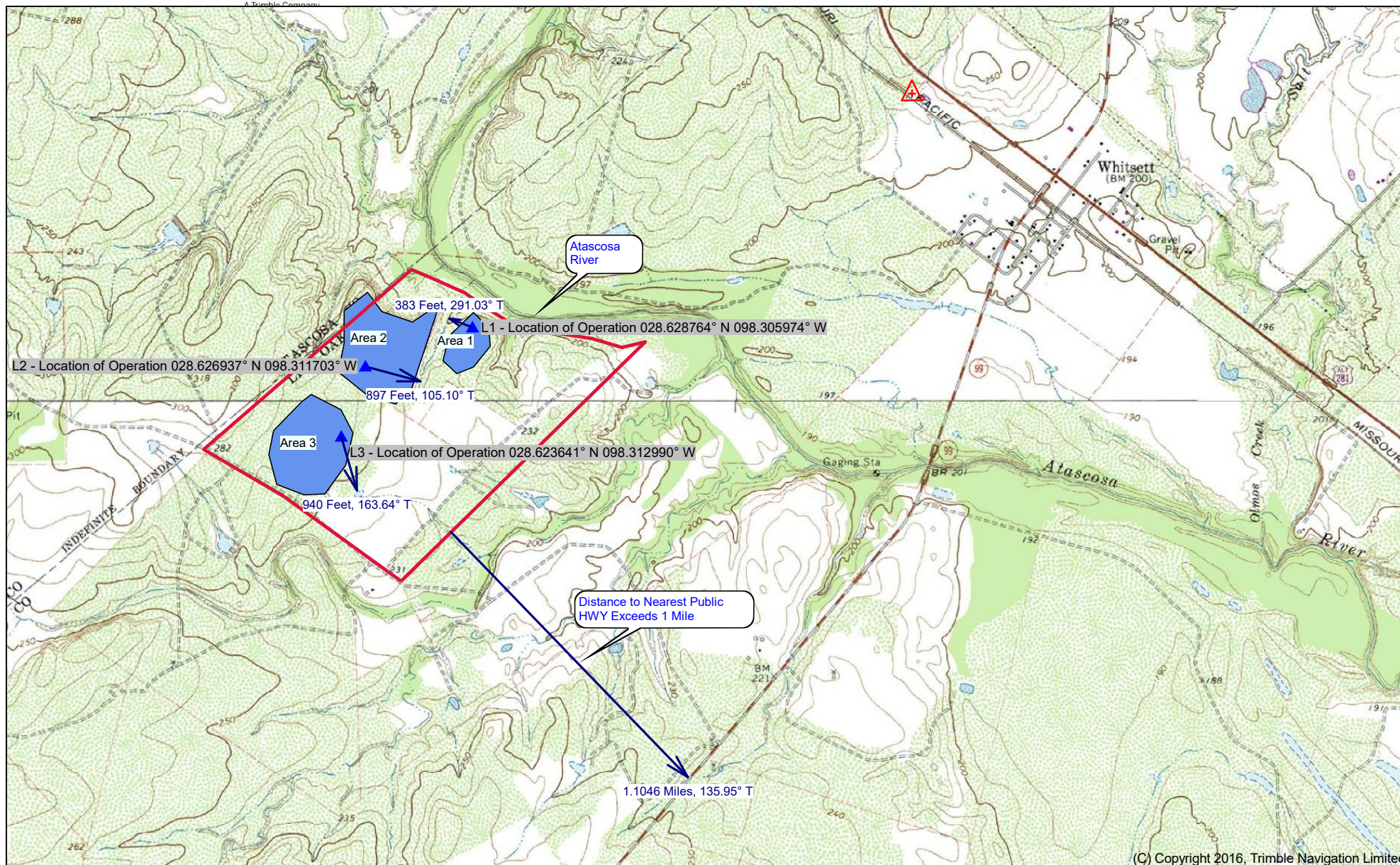


(WHITSETT)

WILLOW HOLLOW TANK QUADRANGLE
TEXAS
TOPOGRAPHIC SERIES

098.255931° W
+ 028.643759° N

(PEGGY)



028.603339° N +
098.330849° W

(CALLIHAM NW)

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

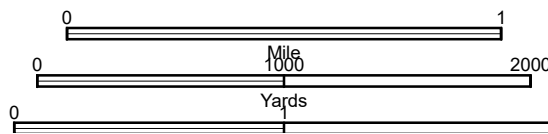
North American 1983 Datum (NAD83)

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

Declination



(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

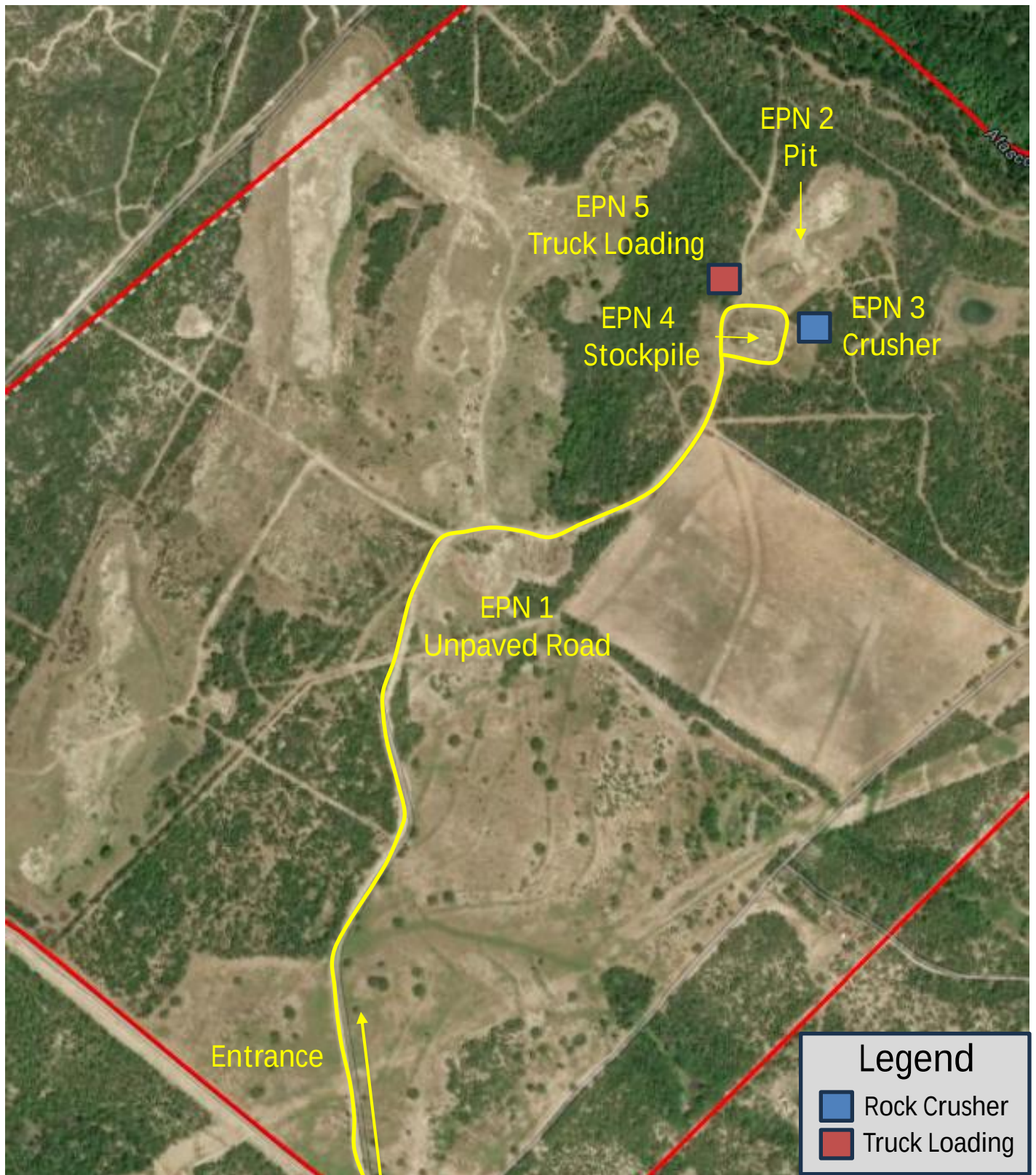
Exhibit C

Process Flow Diagram

Company:
Raider Aggregate

Facility:
Caliche Pit

Project # S250416-927



Design: EvD

Dwg: EvD

Ck:

Appr: EvD

Scale
NTS'

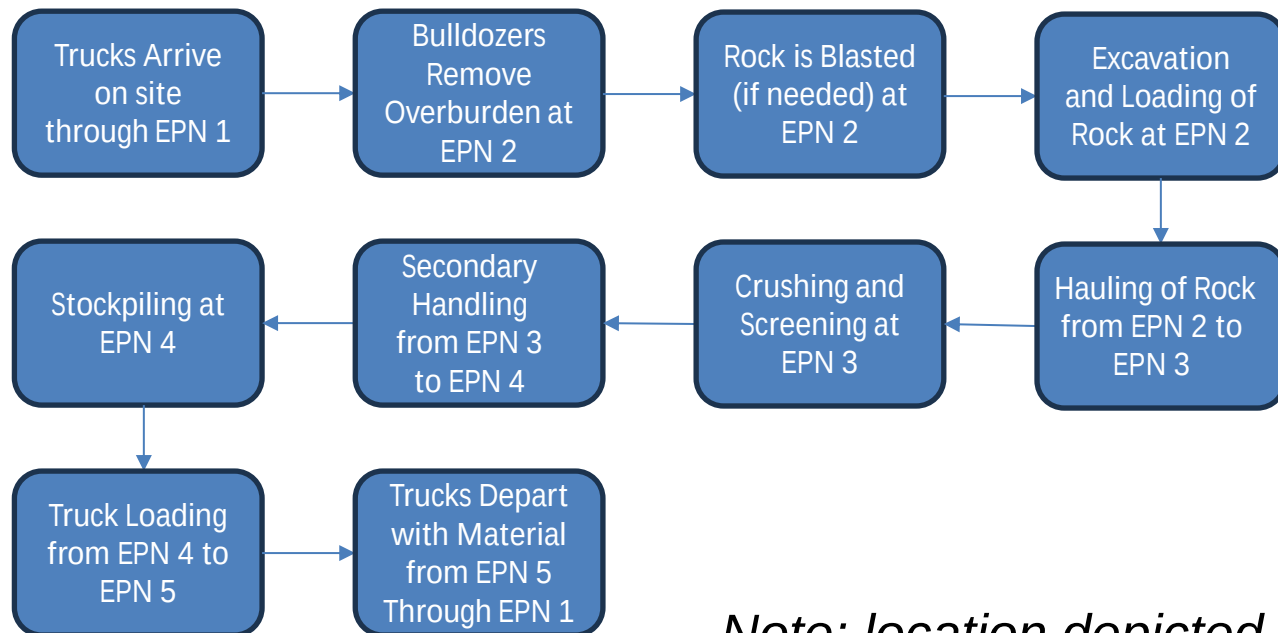
Caliche Pit

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
- ▶ CRUSHER
 - ▶ CRUSHER SPECIFICATION
 - ▶ CRUSHER FEATURES
- ▶ HOPPER
- ▶ VIBRATING GRIZZLY FEEDER
- ▶ PRODUCT CONVEYOR
- ▶ POWER UNIT & HYDRAULICS
- ▶ TRACKS
- ▶ PLANT CONTROLS & OTHER
- ▶ HAZEMAG IMPACT CRUSHER
 - ▶ HAZEMAG CRUSHER SPEC
 - ▶ HAZEMAG CRUSHER FEATURES
- ▶ OPTIONS
 - ▶ OPTIONS 2
 - ▶ OPTIONS 3
- ▶ POWERSCREEN® PULSE
- ▶ DIMENSIONS



OVERVIEW

SPECIFICATION

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

- ▶ FEATURES & BENEFITS
- ▶ CRUSHER
 - ▶ CRUSHER SPECIFICATION
 - ▶ CRUSHER FEATURES
- ▶ HOPPER
- ▶ VIBRATING GRIZZLY FEEDER
- ▶ PRODUCT CONVEYOR
- ▶ POWER UNIT & HYDRAULICS
- ▶ TRACKS
- ▶ PLANT CONTROLS & OTHER
- ▶ HAZEMAG IMPACT CRUSHER
 - ▶ HAZEMAG CRUSHER SPEC
 - ▶ HAZEMAG CRUSHER FEATURES
- ▶ OPTIONS
 - ▶ OPTIONS 2
 - ▶ OPTIONS 3
- ▶ POWERSCREEN® PULSE
- ▶ DIMENSIONS



PRODUCT CONVEYOR

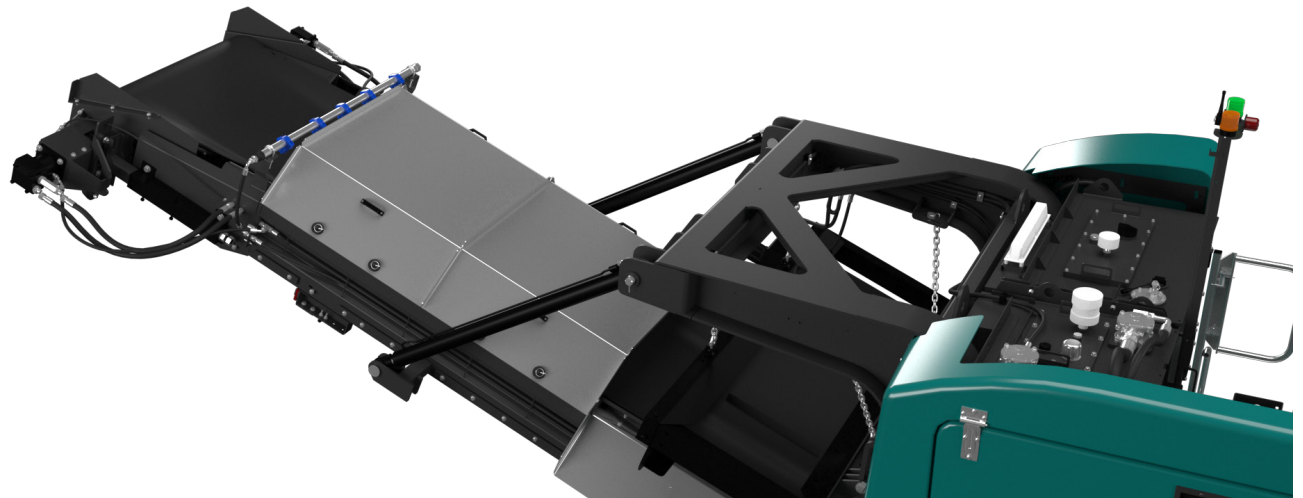
Conveyor type:	Fully removable modular unit with hydraulic raise & lower facility to increase clearance & simplify rebar removal. Shallow troughed with winged rollers & fully tunnelled with minimal snag areas
Belt type:	Ripstop EP500/3 8+2 with steel wire breaker ply
Belt width:	1200mm (3' 11")
Discharge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

Speed wheel:	the head drum 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.

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





TRAKPACTOR 550



OVERVIEW

- ▶ FEATURES & BENEFITS
- ▶ CRUSHER
 - ▶ CRUSHER SPECIFICATION
 - ▶ CRUSHER FEATURES
- ▶ HOPPER
- ▶ VIBRATING GRIZZLY FEEDER
- ▶ PRODUCT CONVEYOR
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 - ▶ HAZEMAG CRUSHER SPEC
 - ▶ HAZEMAG CRUSHER FEATURES
- ▶ OPTIONS
 - ▶ OPTIONS 2
 - ▶ OPTIONS 3
- ▶ POWERSCREEN® PULSE
- ▶ 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 REVOL 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 REVOL 14" WET CLUTCH

Fuel tank capacity:

1000 L (264 US Gal)

Hydraulic tank capacity:

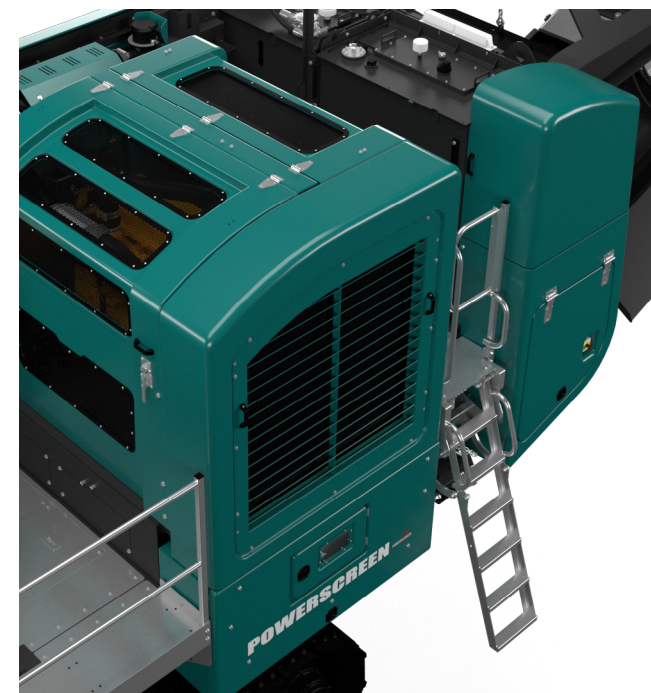
740 L (195 US Gal)

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





TRAKPACTOR 550



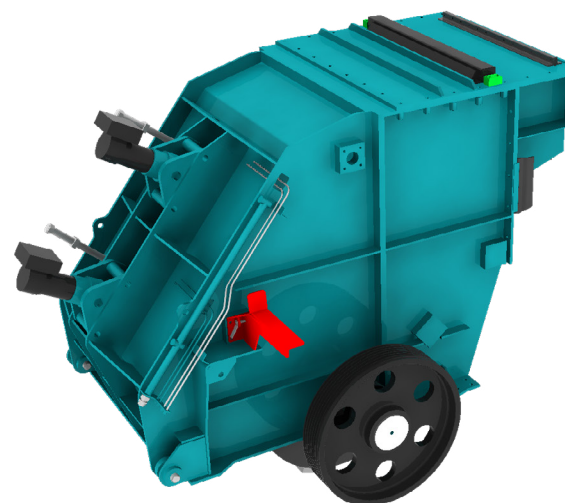
OVERVIEW

- ▶ FEATURES & BENEFITS
- ▶ CRUSHER
 - ▶ CRUSHER SPECIFICATION
 - ▶ CRUSHER FEATURES
- ▶ HOPPER
- ▶ VIBRATING GRIZZLY FEEDER
- ▶ PRODUCT CONVEYOR
- ▶ POWER UNIT & HYDRAULICS
- ▶ TRACKS
- ▶ PLANT CONTROLS & OTHER
- ▶ HAZEMAG IMPACT CRUSHER
 - ▶ HAZEMAG CRUSHER SPEC
 - ▶ HAZEMAG CRUSHER FEATURES
- ▶ OPTIONS
 - ▶ OPTIONS 2
 - ▶ OPTIONS 3
- ▶ POWERSCREEN® PULSE
- ▶ DIMENSIONS



HAZEMAG CRUSHER SPECIFICATION

Feed opening:	1360mm x 800mm (54" x 32")	Number of blow bars:	4
Max lump size*:	500mm ³ (20in ³) / 860mm (34") diagonally/ 1000 x 1000 x 200mm (39 x 39 x 8") slab *depending on material blow bar specification	Blow bar removal:	Vertically
Rotor width:	1340mm (53")	Blow bar configuration:	2 full & 2 half (optional 4 full)
Rotor diameter:	1200mm (47")	Setting adjustment:	Hydraulic assist
Number of aprons:	2	Overload protection:	Hydraulic
Maximum clearance:	273mm (11") on both aprons	Rotor speeds:	540 - 630rpm (34 - 40m/s) (111 - 131ft/s)
Maximum OSS setting:	200mm (8") upper apron, 100mm (4") lower apron	Applications:	Demolition / recycling / quarry
Minimum CSS setting:	75mm (3") upper apron, 35mm (1.4") lower apron	Crusher weight:	14,855kg (32,750lbs)
		Full blow bar weight:	410kg (904lbs)
		Side Liners:	20mm thick, abrasive resistant steel





TRAKPACTOR 550



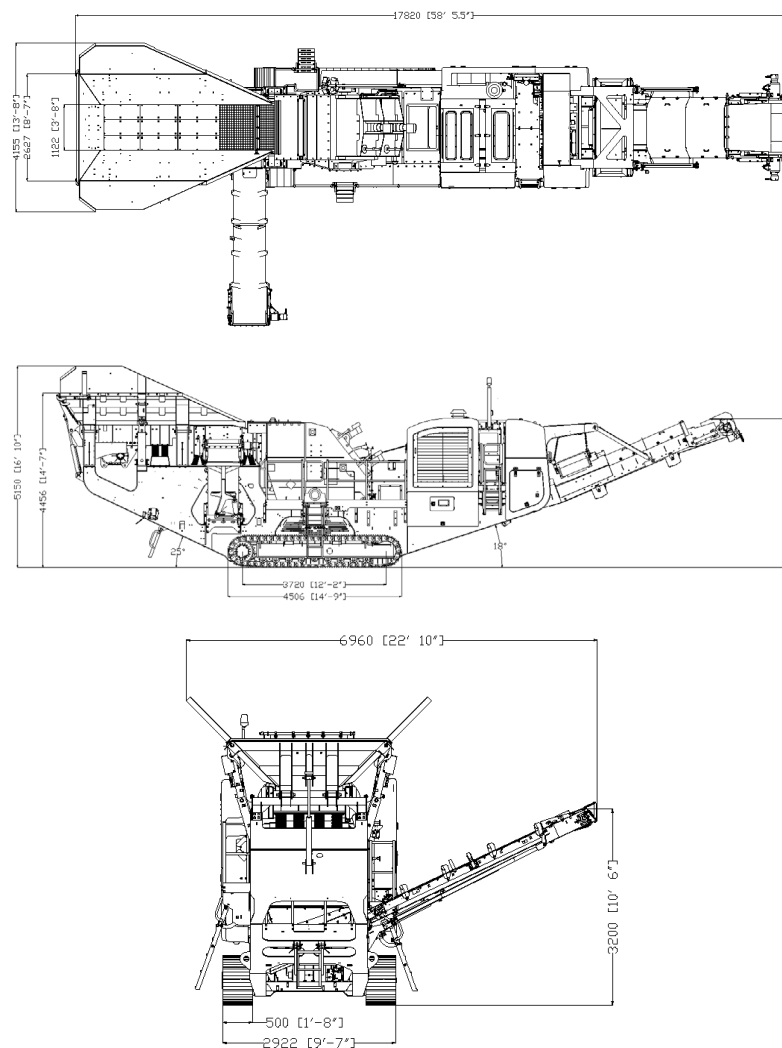
OVERVIEW

- ▶ FEATURES & BENEFITS
- ▶ CRUSHER
 - ▶ CRUSHER SPECIFICATION
 - ▶ CRUSHER FEATURES
- ▶ HOPPER
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 - ▶ HAZEMAG CRUSHER FEATURES
- ▶ OPTIONS
 - ▶ OPTIONS 2
 - ▶ OPTIONS 3
- ▶ POWERSCREEN® PULSE
- ▶ DIMENSIONS



DIMENSIONS

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



MORE DIMENSIONS OVERLEAF



 CALIFORNIA AIR RESOURCES BOARD	SCANIA CV AB	EXECUTIVE ORDER U-R-024-0034 New Off-Road Compression-Ignition Engines
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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):

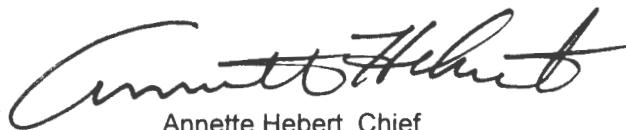
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			NMHC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
130 ≤ KW ≤ 560	Tier 4 Final	STD	0.19	0.40	N/A	3.5	0.02	N/A	N/A	N/A
		CERT	0.08	0.19	--	0.2	0.02	--	--	--

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- placement	4.Power kW @RPM	5.Fuel Rate: mm/stroke @ peak HP	6.Fuel Rate: (lbs/hr) @ peak HP	7.Torque Nm @ RPM	8.Fuel Rate: mm/stroke@ peak torque	9.Fuel Rate: (lbs/hr)@ 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).

Please Check The Type of Facility: ☒ Rock Crusher ☐ Concrete Crusher	
CONDITION NUMBER AND DESCRIPTION	
(1)(B)	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? (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.)
☒ YES ☐ NO ☐ N/A	
(1)(C)(ii)	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?
☐ YES ☐ NO ☒ N/A	
(1)(D)	In lieu of meeting the distance requirements in (1)(B), will all the following occur:
(1)(D)(i)	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?
☐ YES ☐ NO ☒ N/A	
(1)(D)(ii)	Will this plant operate onsite for one period of 180 calendar days or less?
☐ YES ☐ NO ☒ N/A	
(1)(D)(iii)	Will all applicable conditions stated in commission rules, including operating conditions be met?
☐ YES ☐ NO ☒ N/A	
(1)(D)(iv)	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?
☐ YES ☐ NO ☒ N/A	
(1)(E)	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?
☐ YES ☒ NO ☐ N/A	



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

Please Check The Type of Facility: ☒ Rock Crusher ☐ Concrete Crusher		
CONDITION NUMBER AND DESCRIPTION (<i>continued</i>)		
(1)(F)	Is there a rock crusher (or concrete crusher) authorized under Texas Health and Safety Code (THSC) § 382.0518, Preconstruction Permit, at this site? 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?	☐ YES ☒ NO ☐ N/A ☐ YES ☒ NO ☐ N/A
(1)(G)	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? Is the company's compliance history rating poor?	☒ YES ☐ NO ☐ N/A ☐ YES ☒ NO ☐ N/A
(1)(H)	Has construction and/or operation begun on the facility? Is there a non operational crusher stored onsite?	☐ YES ☒ NO ☐ N/A ☐ YES ☒ NO ☐ N/A
(1)(I)	In accordance with 30 TAC § 116.614, Standard Permit Fees, was a \$900 fee sent to TCEQ Revenue Section?	☒ YES ☐ NO ☐ N/A
(1)(J)	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?	☒ YES ☐ NO ☐ N/A
(1)(K)	Will these crushing facilities only process nonmetallic minerals or a combination of nonmetallic minerals as described in 40 CFR Part 60, Subpart OOO?	☒ YES ☐ NO ☐ N/A
(1)(L)	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?	☐ YES ☐ NO ☒ N/A
(1)(M)	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? 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?	☒ YES ☐ NO ☐ N/A ☒ YES ☐ NO ☐ N/A



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

Please Check The Type of Facility: ☒ Rock Crusher ☐ Concrete Crusher		
CONDITION NUMBER AND DESCRIPTION (<i>continued</i>)		
(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?	☒ YES ☐ NO ☐ N/A
(1)(P)	Have maintenance emissions been authorized? (Maintenance emissions are not included in this permit and must be approved under separate authorization.) 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.) Will start-up and shutdown emissions exceed those expected during production operations?	☐ YES ☐ NO ☒ N/A ☐ YES ☐ NO ☒ N/A ☐ YES ☒ NO ☐ 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?	☐ YES ☒ NO ☐ N/A
PUBLIC NOTICE REQUIREMENTS - Detailed Public Notice Information will be Sent upon Determination of Technical Completeness		
(2)(B)(i)	Will public notice be published no later than 30 days after the application is determined to be technically complete?	☒ YES ☐ NO ☐ N/A
OPERATIONAL REQUIREMENTS		
(3)(A)	Will the primary crusher throughput exceed 200 tons per hour?	☐ YES ☒ NO ☐ 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?	☐ YES ☒ NO ☐ 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? (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).	☒ YES ☐ NO ☐ N/A



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

Please Check The Type of Facility: ☒ Rock Crusher ☐ Concrete Crusher		
OPERATIONAL REQUIREMENTS (continued)		
(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? 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?	☐ YES ☐ NO ☒ N/A ☐ YES ☐ NO ☒ 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?	☒ YES ☐ NO ☐ 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? (Equipment that is not a source of emissions does not require authorization.)	☐ YES ☒ NO ☐ 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?	☐ YES ☒ NO ☐ 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?	☐ YES ☒ NO ☐ N/A
(3)(I)	Will all crushers be equipped with runtime meters and will the runtime meters be operating during crushing operations?	☒ YES ☐ NO ☐ 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?	☒ YES ☐ NO ☐ 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? Will opacity of emissions from any crusher exceed 15 percent, averaged over a six-minute period as determined using EPA Test Method 9?	☐ YES ☒ NO ☐ N/A ☐ YES ☒ NO ☐ 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?	☐ YES ☒ NO ☐ N/A



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

Please Check The Type of Facility: ☒ Rock Crusher ☐ Concrete Crusher	
OPERATIONAL REQUIREMENTS <i>(continued)</i>	
(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? ☐ YES ☒ NO ☐ N/A
(3)(M)(ii)	Dust-suppressant chemicals? ☒ YES ☐ NO ☐ N/A
(3)(M)(iii)	Water? ☒ YES ☐ NO ☐ N/A
(3)(M)(iv)	Paved with a cohesive hard surface that is maintained intact and cleaned? ☐ YES ☒ NO ☐ N/A
(3)(N)	Will all stockpiles be sprinkled with water, dust-suppressant chemicals, or covered, as necessary, to minimize dust emissions? ☒ YES ☐ NO ☐ N/A
(3)(O)	Will raw material and product stockpile heights exceed 45 ft? ☐ YES ☒ NO ☐ N/A
(3)(P)	Will the crusher be equipped with a weigh hopper or scale belt that accurately determines the mass of material being crushed? ☒ YES ☐ NO ☐ N/A
(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? ☒ YES ☐ NO ☐ N/A

Print Form

Reset Form



Texas Commission on Environment Quality

Table 17
Rock Crushers

Please Complete the Following				
Maximum operating schedule:	10	hours/day	5	days/week
			52	weeks/year
Does the facility operate at night?				☐ YES ☒ NO
Maximum Plant Production Rates:				
☒ Primary Crusher	Type: Trakpactor 550	200	tons/hour	520000 tons/year
☐ Secondary Crusher(s)	Type:		tons/hour	tons/year
☐ Tertiary Crusher(s)	Type:		tons/hour	tons/year
The Following Pieces of Equipment will be Controlled as Shown:				
Feed Hoppers:	☐ None	☒ Water Spray	☐ Suction to Baghouse	☐ Other: _____
All Belt Transfer Points:	☐ None	☒ Water Spray	☐ Suction to Baghouse	☐ Other: _____
Inlet of all Crushers:	☐ None	☒ Water Spray	☐ Suction to Baghouse	☐ Other: _____
Outlet of all Crushers:	☐ None	☒ Water Spray	☐ Suction to Baghouse	☐ Other: _____
All Shaker Screens:	☐ None	☒ Water Spray	☐ Suction to Baghouse	☐ Other: _____
If Water Sprays are used, Provide the Following Data:				
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:		☐ None	☒ Water	☐ Chemical
In-plant roads will be:		☐ Paved and Vacuumed	☐ Paved and Swept	☐ Oiled
☒ Sprinkled with Water and/or Chemicals		☐ Other: _____		

PRINT FORM

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Texas Commission on Environmental Quality
Table 29 Reciprocating Engines

I. Engine Data											
Manufacturer: Scania		Model No. DC13 Tier 4f		Serial No. Unkown		Manufacture Date:					
Rebuilds Date:		No. of Cylinders: 6		Compression Ratio: 17.5:1		EPN: DC13 085A					
Application: ☒ Gas Compression ☐ Electric Generation ☐ Refrigeration ☐ Emergency/Stand by											
☒ 4 Stroke Cycle ☐ 2 Stroke Cycle ☐ Carbureted ☐ Spark Ignited ☐ Dual Fuel ☐ Fuel Injected											
☒ Diesel ☐ Naturally Aspirated ☐ Blower /Pump Scavenged ☐ Turbo Charged and I.C. ☒ Turbo Charged											
☐ Intercooled ☐ I.C. Water Temperature ☐ Lean Burn ☐ Rich Burn											
Ignition/Injection Timing: 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					
II. Fuel Data											
Type of Fuel: ☐ Field Gas ☐ Landfill Gas ☐ LP Gas ☐ Natural Gas ☐ Digester Gas ☒ 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											
III. Emission Factors (Before Control)											
NO _x		CO		SO ₂		VOC		Formaldehyde		PM ₁₀	
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: ☐ Manufacturer Data ☐ AP-42 ☒ Other (specify): State of California, Title 13											
IV. Emission Factors (Post Control)											
NO _x		CO		SO ₂		VOC		Formaldehyde		PM ₁₀	
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: ☐ NSCR Catalyst ☐ Lean Operation ☐ Parameter Adjustment ☐ Stratified Charge ☐ JLCC Catalyst ☒ Other (Specify): SCR and EGR											
Note: Must submit a copy of any manufacturer control information that demonstrates control efficiency.											
Is Formaldehyde included in the VOCs?										☐ Yes ☒ No	
V. Federal and State Standards (Check all that apply)											
☐ NSPS JJJJ ☐ MACT ZZZZ ☒ NSPS IIII ☐ Title 30 Chapter 117 - List County: _____											
VI. Additional Information											
1. Submit a copy of the engine manufacturer's site rating or general rating specification data. 2. Submit a typical fuel gas analysis, including sulfur content and heating value. For gaseous fuels, provide mole percent of constituents. 3. Submit description of air/fuel ratio control system (manufacturer information is acceptable).											

Reset Form

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