



EcoLogic Environmental Consultants, LLC
864 Windsor Court
Santa Barbara, CA 93111
805-964-7597

May 25, 2022

Elizabeth Bisbey-Kuehn
New Mexico Environment Department
Air Quality Bureau
525 Camino de los Marquez, Suite 1
Santa Fe, New Mexico 87505-1816

**Subject: Application to Modify Permit Number 1033-M5-R9
Harvest Four Corners, LLC – 32-8#2 Central Delivery Point**

Dear Ms. Bisbey-Kuehn:

On behalf of Harvest Four Corners, LLC (H4C), EcoLogic Environmental Consultants, LLC is submitting this application to modify the 32-8#2 Central Delivery Point (CDP), currently operating under New Source Review Permit 1033-M5-R9 dated December 1, 2021. The purpose of this application is to replace five existing 1,357 horsepower Waukesha 7042GL compressor engines (Unit Nos. 3-6 and 9) with five new 1,500 horsepower Waukesha 7044GSI engines (Unit Nos. 3-6 and 9). This application for significant permit revision is submitted under Section 20.2.72.219.D(1) of the New Mexico Administrative Code (NMAC).

Enclosed are two copies of the permit application and a check for \$500 to cover the permit filing fee.

If you have any questions, or require additional information, please contact Oakley Hayes of H4C at (505) 632-4421.

Sincerely,

EcoLogic Environmental Consultants, LLC

Walter H. Konkel III
Principal

Enclosures

Check for Filing Fee and 32-8#2 CDP Significant Revision Application

cc: Oakley Hayes, H4C

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**NEW MEXICO 20.2.72 NMAC APPLICATION
TO MODIFY PERMIT NUMBER 1033-M5-R9**

32-8#2 CENTRAL DELIVERY POINT

Submitted By:



**HARVEST FOUR CORNERS, LLC
1755 Arroyo Drive
Bloomfield, New Mexico 87413**

Prepared By:



**EcoLogic Environmental Consultants, LLC
864 Windsor Court
Santa Barbara, CA 93111-1037**

May 2022

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Introduction

The 32-8#2 Central Delivery Point (CDP) currently operates under a construction permit issued by the NMAQB, 1033-M5-R9, dated December 1, 2021. The permit approves operation of the following emission sources: twelve Waukesha 7042GL natural gas-fired compressor engines (Units 1-9 and 17-19) and seven triethylene glycol dehydrators (Units 10-16).

The proposed modification is to replace five Waukesha 7042GL natural gas-fired compressor engines (Units 3-6 and 9) with five Waukesha 7044GSI natural gas-fired compressor engines (Units 3-6 and 9). The new compressor engines will be equipped with catalysts to control NO_x, CO and VOC emissions. The project will result in a decrease in NO_x, CO and VOC emissions.

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Mail Application To: New Mexico Environment Department Air Quality Bureau Permits Section 525 Camino de los Marquez, Suite 1 Santa Fe, New Mexico, 87505 Phone: (505) 476-4300 Fax: (505) 476-4375 www.env.nm.gov/aqb		For Department use only: AIRS No.:
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Universal Air Quality Permit Application

Use this application for NOI, NSR, or Title V sources.

Use this application for: the initial application, modifications, technical revisions, and renewals. For technical revisions, complete Sections, 1-A, 1-B, 2-E, 3, 9 and any other sections that are relevant to the requested action; coordination with the Air Quality Bureau permit staff prior to submittal is encouraged to clarify submittal requirements and to determine if more or less than these sections of the application are needed. Use this application for streamline permits as well. **See Section 1-I for submittal instructions for other permits.**

This application is submitted as (check all that apply): ☐ Request for a No Permit Required Determination (no fee)
☐ **Updating** an application currently under NMED review. Include this page and all pages that are being updated (no fee required).
 Construction Status: ☐ Not Constructed ☒ Existing Permitted (or NOI) Facility ☐ Existing Non-permitted (or NOI) Facility
 Minor Source: ☐ a NOI 20.2.73 NMAC ☒ 20.2.72 NMAC application or revision ☐ 20.2.72.300 NMAC Streamline application
 Title V Source: ☐ Title V (new) ☐ Title V renewal ☐ TV minor mod. ☐ TV significant mod. TV Acid Rain: ☐ New ☐ Renewal
 PSD Major Source: ☐ PSD major source (new) ☐ minor modification to a PSD source ☐ a PSD major modification

Acknowledgements:

☒ I acknowledge that a pre-application meeting is available to me upon request. ☐ Title V Operating, Title IV Acid Rain, and NPR applications have no fees.
☒ \$500 NSR application Filing Fee enclosed **OR** ☐ The full permit fee associated with 10 fee points (required w/ streamline applications).
☒ Check No.: **238** in the amount of **\$500.00**
☒ I acknowledge the required submittal format for the hard copy application is printed double sided 'head-to-toe', 2-hole punched (except the Sect. 2 landscape tables is printed 'head-to-head'), numbered tab separators. Incl. a copy of the check on a separate page.
☒ I acknowledge there is an annual fee for permits in addition to the permit review fee: www.env.nm.gov/air-quality/permit-fees-2/.
☐ This facility qualifies for the small business fee reduction per 20.2.75.11.C. NMAC. The full \$500.00 filing fee is included with this application and I understand the fee reduction will be calculated in the balance due invoice. The Small Business Certification Form has been previously submitted or is included with this application. (Small Business Environmental Assistance Program Information: www.env.nm.gov/air-quality/small-biz-eap-2/.)

Citation: Please provide the **low level citation** under which this application is being submitted: **20.2.72.219.D(1) NMAC** (e.g. application for a new minor source would be 20.2.72.200.A NMAC, one example for a Technical Permit Revision is 20.2.72.219.B.1.b NMAC, a Title V acid rain application would be: 20.2.70.200.C NMAC)

Section 1 – Facility Information

Section 1-A: Company Information

		AI # if known (see 1 st 3 to 5 #s of permit IDEA ID No.): 1236	Updating Permit/NOI #: 1033-M5-R9
1	Facility Name: 32-8#2 Central Delivery Point	Plant primary SIC Code (4 digits): 1389 Plant NAIC code (6 digits): 213112	
a	Facility Street Address (If no facility street address, provide directions from a prominent landmark): From the intersection of Highway 550 and Highway 173, go east on Highway 173 and drive 18 miles to Highway 511 (Sportsman' Inn), turn left on Highway 511 and drive 18.6 miles (crossing the dam) to mile marker 26.6, site is on the right.		
2	Plant Operator Company Name: Harvest Four Corners, LLC	Phone/Fax: (505) 632-4600 / (505) 632-4782	
a	Plant Operator Address: 1755 Arroyo Drive, Bloomfield, New Mexico 87413		

b	Plant Operator's New Mexico Corporate ID or Tax ID: 76-0451075	
3	Plant Owner(s) name(s): Same as #2 above	Phone/Fax: Same as #2 above
a	Plant Owner(s) Mailing Address(s): Same as #2a above	
4	Bill To (Company): Same as #2 above	Phone/Fax: Same as #2 above
a	Mailing Address: Same as #2a above	E-mail: N/A
5	<input type="checkbox"/> Preparer: <input checked="" type="checkbox"/> Consultant: Walter Konkell III, EcoLogic Environmental Consultants, LLC	Phone/Fax: (805) 964-7597
a	Mailing Address: 864 Windsor Court, Santa Barbara, CA 93111	E-mail: wkonkel@elologicllc.com
6	Plant Operator Contact: Oakley Hayes	Phone/Fax: (505) 632-4421 / (505) 632-4782
a	Address: Same as #2a above	E-mail: oakley.hayes@harvestmidstream.com
7	Air Permit Contact: Oakley Hayes	Title: Environmental Specialist
a	E-mail: Same as #6a above	Phone/Fax: Same as #6a above
b	Mailing Address: Same as #2a above	
c	The designated Air permit Contact will receive all official correspondence (i.e. letters, permits) from the Air Quality Bureau.	

Section 1-B: Current Facility Status

1.a	Has this facility already been constructed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.b. If yes to question 1.a, is it currently operating in New Mexico? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	If yes to question 1.a, was the existing facility subject to a Notice of Intent (NOI) (20.2.73 NMAC) before submittal of this application? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes to question 1.a, was the existing facility subject to a construction permit (20.2.72 NMAC) before submittal of this application? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Is the facility currently shut down? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, give month and year of shut down (MM/YY): N/A
4	Was this facility constructed before 8/31/1972 and continuously operated since 1972? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5	If Yes to question 3, has this facility been modified (see 20.2.72.7.P NMAC) or the capacity increased since 8/31/1972? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
6	Does this facility have a Title V operating permit (20.2.70 NMAC)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, the permit No. is: P207-R3-M1
7	Has this facility been issued a No Permit Required (NPR)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, the NPR No. is: N/A
8	Has this facility been issued a Notice of Intent (NOI)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, the NOI No. is: N/A
9	Does this facility have a construction permit (20.2.72/20.2.74 NMAC)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, the permit No. is: 1033-M5-R9
10	Is this facility registered under a General permit (GCP-1, GCP-2, etc.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, the register No. is: N/A

Section 1-C: Facility Input Capacity & Production Rate

1	What is the facility's maximum input capacity, specify units (reference here and list capacities in Section 20, if more room is required)			
a	Current	Hourly: 3.983 MMCF^(a)	Daily: 95.59 MMCF^(a)	Annually: 34,890 MMCF^(a)
b	Proposed	Hourly: 3.983 MMCF^(a)	Daily: 95.59 MMCF^(a)	Annually: 34,890 MMCF^(a)
2	What is the facility's maximum production rate, specify units (reference here and list capacities in Section 20, if more room is required)			
a	Current	Hourly: 3.983 MMCF^(a)	Daily: 95.59 MMCF^(a)	Annually: 34,890 MMCF^(a)
b	Proposed	Hourly: 3.983 MMCF^(a)	Daily: 95.59 MMCF^(a)	Annually: 34,890 MMCF^(a)

^(a) Station capacity is a direct function of available horsepower. The throughput is therefore dependent on atmospheric temperature, gas temperature, atmospheric pressure, gas pressure, relative humidity and gas quality, as well as other factors. The “capacity” expressed in the application is a nominal quantity, neither an absolute maximum nor an average. The actual throughput will vary from the nominal amount.

Section 1-D: Facility Location Information

1	Section: 27	Range: 8W	Township: 32N	County: San Juan	Elevation (ft): 6,720
2	UTM Zone: <input type="checkbox"/> 12 or <input checked="" type="checkbox"/> 13			Datum: <input type="checkbox"/> NAD 27 <input type="checkbox"/> NAD 83 <input checked="" type="checkbox"/> WGS 84	
a	UTM E (in meters, to nearest 10 meters): 282,880			UTM N (in meters, to nearest 10 meters): 4,093,425	
b	AND Latitude (deg., min., sec.): 36° 57' 25"			Longitude (deg., min., sec.): - 107° 39' 47"	
3	Name and zip code of nearest New Mexico town: Aztec, New Mexico 87410				
4	Detailed Driving Instructions from nearest NM town (attach a road map if necessary): From the intersection of Highway 550 and Highway 173, go east on Highway 173 and drive 18 miles to Highway 511 (Sportsman' Inn), turn left on Highway 511 and drive 18.6 miles (crossing the dam) to mile marker 26.6, site is on the right.				
5	The facility is approximately 17.4 miles east of Aztec, New Mexico.				
6	Status of land at facility (check one): <input checked="" type="checkbox"/> Private <input type="checkbox"/> Indian/Pueblo <input type="checkbox"/> Federal BLM <input type="checkbox"/> Federal Forest Service <input type="checkbox"/> Other (specify)				
7	List all municipalities, Indian tribes, and counties within a ten (10) mile radius (20.2.72.203.B.2 NMAC) of the property on which the facility is proposed to be constructed or operated: None, Southern Ute Tribe, Rio Arriba County, and San Juan County				
8	20.2.72 NMAC applications only : Will the property on which the facility is proposed to be constructed or operated be closer than 50 km (31 miles) to other states, Bernalillo County, or a Class I area (see www.env.nm.gov/aqb/modeling/classIareas.html)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (20.2.72.206.A.7 NMAC) If yes, list all with corresponding distances in kilometers: Colorado – 4.7 km				
9	Name nearest Class I area: Weminuche Wilderness Area				
10	Shortest distance (in km) from facility boundary to the boundary of the nearest Class I area (to the nearest 10 meters): 51.52 km				
11	Distance (meters) from the perimeter of the Area of Operations (AO is defined as the plant site inclusive of all disturbed lands, including mining overburden removal areas) to nearest residence, school or occupied structure: ≈ 17,000 m				
12	Method(s) used to delineate the Restricted Area: Fence “ Restricted Area ” is an area to which public entry is effectively precluded. Effective barriers include continuous fencing, continuous walls, or other continuous barriers approved by the Department, such as rugged physical terrain with steep grade that would require special equipment to traverse. If a large property is completely enclosed by fencing, a restricted area within the property may be identified with signage only. Public roads cannot be part of a Restricted Area.				
13	Does the owner/operator intend to operate this source as a portable stationary source as defined in 20.2.72.7.X NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No A portable stationary source is not a mobile source, such as an automobile, but a source that can be installed permanently at one location or that can be re-installed at various locations, such as a hot mix asphalt plant that is moved to different job sites.				
14	Will this facility operate in conjunction with other air regulated parties on the same property? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If yes, what is the name and permit number (if known) of the other facility? N/A				

Section 1-E: Proposed Operating Schedule (The 1-E.1 & 1-E.2 operating schedules may become conditions in the permit.)

1	Facility maximum operating ($\frac{\text{hours}}{\text{day}}$): 24	($\frac{\text{days}}{\text{week}}$): 7	($\frac{\text{weeks}}{\text{year}}$): 52	($\frac{\text{hours}}{\text{year}}$): 8,760
2	Facility's maximum daily operating schedule (if less than 24 $\frac{\text{hours}}{\text{day}}$)? Start: N/A		<input type="checkbox"/> AM <input type="checkbox"/> PM	End: N/A <input type="checkbox"/> AM <input type="checkbox"/> PM
3	Month and year of anticipated start of construction: N/A			
4	Month and year of anticipated construction completion: N/A			
5	Month and year of anticipated startup of new or modified facility: N/A			
6	Will this facility operate at this site for more than one year? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			

Section 1-F: Other Facility Information

1	Are there any current Notice of Violations (NOV), compliance orders, or any other compliance or enforcement issues related to this facility? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, specify: N/A		
a	If yes, NOV date or description of issue: N/A	a	
b	Is this application in response to any issue listed in 1-F, 1 or 1a above? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, provide the 1c & 1d info below:		
c	Document Title: N/A	c	Document Title: N/A
d	Provide the required text to be inserted in this permit: N/A		
2	Is air quality dispersion modeling or modeling waiver being submitted with this application? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3	Does this facility require an "Air Toxics" permit under 20.2.72.400 NMAC & 20.2.72.502, Tables A and/or B? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
4	Will this facility be a source of federal Hazardous Air Pollutants (HAP)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
a	If Yes, what type of source? <input type="checkbox"/> Major (<input type="checkbox"/> ≥ 10 tpy of any single HAP OR <input type="checkbox"/> ≥ 25 tpy of any combination of HAPS) OR <input checked="" type="checkbox"/> Minor (<input checked="" type="checkbox"/> < 10 tpy of any single HAP AND <input checked="" type="checkbox"/> < 25 tpy of any combination of HAPS)		
5	Is any unit exempt under 20.2.72.202.B.3 NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
a	If yes, include the name of company providing commercial electric power to the facility: N/A Commercial power is purchased from a commercial utility company, which specifically does not include power generated on site for the sole purpose of the user.		

Section 1-G: Streamline Application

(This section applies to 20.2.72.300 NMAC Streamline applications only)

1	<input type="checkbox"/> I have filled out Section 18, "Addendum for Streamline Applications." <input checked="" type="checkbox"/> N/A (This is not a Streamline application.)
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Section 1-H: Current Title V Information - Required for all applications from TV Sources

(Title V-source required information for all applications submitted pursuant to 20.2.72 NMAC (Minor Construction Permits), or 20.2.74/20.2.79 NMAC (Major PSD/NNSR applications), and/or 20.2.70 NMAC (Title V))

1	Responsible Official (R.O.) (20.2.70.300.D.2 NMAC): Travis Jones		Phone: (713) 289-2630
a	R.O. Title: EH&S Manager	R.O. e-mail: trjones@harvestmidstream.com	
b	R. O. Address: 1111 Travis Street, Houston, Texas 77002		
2	Alternate Responsible Official (20.2.70.300.D.2 NMAC): TBD		Phone: TBD
a	A. R.O. Title: TBD	A. R.O. e-mail: TBD	
b	A. R. O. Address: TBD		
3	Company's Corporate or Partnership Relationship to any other Air Quality Permittee (List the names of any companies that have operating (20.2.70 NMAC) permits and with whom the applicant for this permit has a corporate or partnership relationship): N/A		
4	Name of Parent Company ("Parent Company" means the primary name of the organization that owns the company to be permitted wholly or in part.): Hilcorp Energy Company		
a	Address of Parent Company: Same as #1b above		
5	Names of Subsidiary Companies ("Subsidiary Companies" means organizations, branches, divisions or subsidiaries, which are owned, wholly or in part, by the company to be permitted.): N/A		
6	Telephone numbers & names of the owners' agents and site contacts familiar with plant operations: N/A		
7	Affected Programs to include Other States, local air pollution control programs (i.e. Bernalillo) and Indian tribes: Will the property on which the facility is proposed to be constructed or operated be closer than 80 km (50 miles) from other states, local pollution control programs, and Indian tribes and pueblos (20.2.70.402.A.2 and 20.2.70.7.B)? If yes, state which ones and provide the distances in kilometers: Yes, Colorado (≈ 4.7 km), Southern Ute Tribe (≈ 4.7 km), Navajo Tribe (≈ 35.6 km), Jicarilla Apache Tribe (≈ 41.4 km), Ute Mountain Ute Tribe (≈ 51.1 km)		

Section 1-I – Submittal Requirements

Each 20.2.73 NMAC (NOI), a 20.2.70 NMAC (Title V), a 20.2.72 NMAC (NSR minor source), or 20.2.74 NMAC (PSD) application package shall consist of the following:

Hard Copy Submittal Requirements:

- 1) One hard copy **original signed and notarized application package printed double sided ‘head-to-toe’ 2-hole punched** as we bind the document on top, not on the side; except Section 2 (landscape tables), which should be **head-to-head**. Please use **numbered tab separators** in the hard copy submittal(s) as this facilitates the review process. For NOI submittals only, hard copies of UA1, Tables 2A, 2D & 2F, Section 3 and the signed Certification Page are required. **Please include a copy of the check on a separate page.**
- 2) If the application is for a minor NSR, PSD, NNSR, or Title V application, include one working hard **copy** for Department use. This **copy** should be printed in book form, 3-hole punched, and **must be double sided**. Note that this is in addition to the head-to-toe 2-hole punched copy required in 1) above. Minor NSR Technical Permit revisions (20.2.72.219.B NMAC) only need to fill out Sections 1-A, 1-B, 3, and should fill out those portions of other Section(s) relevant to the technical permit revision. TV Minor Modifications need only fill out Sections 1-A, 1-B, 1-H, 3, and those portions of other Section(s) relevant to the minor modification. NMED may require additional portions of the application to be submitted, as needed.
- 3) The entire NOI or Permit application package, including the full modeling study, should be submitted electronically. Electronic files for applications for NOIs, any type of General Construction Permit (GCP), or technical revisions to NSRs must be submitted with compact disk (CD) or digital versatile disc (DVD). For these permit application submittals, **two CD** copies are required (in sleeves, not crystal cases, please), with additional CD copies as specified below. NOI applications require only a **single CD** submittal. Electronic files for other New Source Review (construction) permits/permit modifications or Title V permits/permit modifications can be submitted on CD/DVD or sent through AQB’s secure file transfer service.

Electronic files sent by (check one):

☒ CD/DVD attached to paper application

☐ secure electronic transfer. Air Permit Contact Name _____

Email _____

Phone number _____

a. If the file transfer service is chosen by the applicant, after receipt of the application, the Bureau will email the applicant with instructions for submitting the electronic files through a secure file transfer service. Submission of the electronic files through the file transfer service needs to be completed within 3 business days after the invitation is received, so the applicant should ensure that the files are ready when sending the hard copy of the application. The applicant will not need a password to complete the transfer. **Do not use the file transfer service for NOIs, any type of GCP, or technical revisions to NSR permits.**

- 4) Optionally, the applicant may submit the files with the application on compact disk (CD) or digital versatile disc (DVD) following the instructions above and the instructions in 5 for applications subject to PSD review.
- 5) If **air dispersion modeling** is required by the application type, include the **NMED Modeling Waiver** and/or electronic air dispersion modeling report, input, and output files. The dispersion modeling **summary report only** should be submitted as hard copy(ies) unless otherwise indicated by the Bureau.
- 6) If the applicant submits the electronic files on CD and the application is subject to PSD review under 20.2.74 NMAC (PSD) or NNSR under 20.2.79 NMC include,
 - a. one additional CD copy for US EPA,
 - b. one additional CD copy for each federal land manager affected (NPS, USFS, FWS, USDI) and,
 - c. one additional CD copy for each affected regulatory agency other than the Air Quality Bureau.

If the application is submitted electronically through the secure file transfer service, these extra CDs do not need to be submitted.

Electronic Submittal Requirements [in addition to the required hard copy(ies)]:

- 1) All required electronic documents shall be submitted as 2 separate CDs or submitted through the AQB secure file transfer service. Submit a single PDF document of the entire application as submitted and the individual documents comprising the application.
- 2) The documents should also be submitted in Microsoft Office compatible file format (Word, Excel, etc.) allowing us to access the text and formulas in the documents (copy & paste). Any documents that cannot be submitted in a Microsoft Office compatible

format shall be saved as a PDF file from within the electronic document that created the file. If you are unable to provide Microsoft office compatible electronic files or internally generated PDF files of files (items that were not created electronically: i.e. brochures, maps, graphics, etc.), submit these items in hard copy format. We must be able to review the formulas and inputs that calculated the emissions.

- 3) It is preferred that this application form be submitted as 4 electronic files (3 MSWord docs: Universal Application section 1 [UA1], Universal Application section 3-19 [UA3], and Universal Application 4, the modeling report [UA4]) and 1 Excel file of the tables (Universal Application section 2 [UA2]). Please include as many of the 3-19 Sections as practical in a single MS Word electronic document. Create separate electronic file(s) if a single file becomes too large or if portions must be saved in a file format other than MS Word.
- 4) The **electronic file names** shall be a maximum of 25 characters long (including spaces, if any). The format of the electronic Universal Application shall be in the format: "A-3423-FacilityName". The "A" distinguishes the file as an application submittal, as opposed to other documents the Department itself puts into the database. Thus, all electronic application submittals should begin with "A-". Modifications to existing facilities should use the **core permit number** (i.e. '3423') the Department assigned to the facility as the next 4 digits. Use 'XXXX' for new facility applications. The format of any separate electronic submittals (additional submittals such as non-Word attachments, re-submittals, application updates) and Section document shall be in the format: "A-3423-9-description", where "9" stands for the **section #** (in this case Section 9-Public Notice). Please refrain, as much as possible, from submitting any scanned documents as this file format is extremely large, which uses up too much storage capacity in our database. Please take the time to fill out the **header information** throughout all submittals as this will identify any loose pages, including the Application Date (date submitted) & Revision number (0 for original, 1, 2, etc.; which will help keep track of subsequent partial update(s) to the original submittal. Do not use special symbols (#, @, etc.) in file names. The footer information should not be modified by the applicant.

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Table 2-A: Regulated Emission Sources

Unit and stack numbering must correspond throughout the application package. If applying for a NOI under 20.2.73 NMAC, equipment exemptions under 2.72.202 NMAC do not apply.

Unit Number ¹	Source Description	Make	Model #	Serial #	Manufact- urer's Rated Capacity ³ (Specify Units)	Requested Permitted Capacity ³ (Specify Units)	Date of Manufacture ²	Controlled by Unit #	Source Classi- fication Code (SCC)	For Each Piece of Equipment, Check One	RICE Ignition Type (CI, SI, 4SLB, 4SRB, 2SLB) ⁴	Replacing Unit No.	
							Date of Construction/ Reconstruction ²	Emissions vented to Stack #					
1	Compressor Engine	Waukesha	7042GL	403119 (Pkg x00072)	1,478 hp	1,357 hp	3/1/1991	N/A	20200202	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified	<input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	4SLB	N/A
							3/1/1991	1					
2	Compressor Engine	Waukesha	7042GL	C-12608 (Pkg x00006)	1,478 hp	1,357 hp	4/27/1998	N/A	20200202	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified	<input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	4SLB	N/A
							4/27/1998	2					
3	Compressor Engine	Waukesha	7042GL	353971 (Pkg 76454)	1,478 hp	1,357 hp	9/23/1980	N/A	20200202	<input type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified	<input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input checked="" type="checkbox"/> To be Replaced	4SLB	N/A
							9/23/1980	3					
3	Compressor Engine	Waukesha	7044GSI	TBD	1,900 hp	1,500 hp	TBD	Catalyst	20200202	<input type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified	<input type="checkbox"/> To be Removed <input checked="" type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	4SRB	3
							TBD	3					
4	Compressor Engine	Waukesha	7042GL	368329 (Pkg 76461)	1,478 hp	1,357 hp	12/21/1981	N/A	20200202	<input type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified	<input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input checked="" type="checkbox"/> To be Replaced	4SLB	N/A
							12/21/1981	4					
4	Compressor Engine	Waukesha	7044GSI	TBD	1,900 hp	1,500 hp	TBD	Catalyst	20200202	<input type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified	<input type="checkbox"/> To be Removed <input checked="" type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	4SRB	4
							TBD	4					
5	Compressor Engine	Waukesha	7042GL	C-10466/3 (Pkg x00075)	1,478 hp	1,357 hp	2/21/1992	N/A	20200202	<input type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified	<input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input checked="" type="checkbox"/> To be Replaced	4SLB	N/A
							2/21/1992	5					
5	Compressor Engine	Waukesha	7044GSI	TBD	1,900 hp	1,500 hp	TBD	Catalyst	20200202	<input type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified	<input type="checkbox"/> To be Removed <input checked="" type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	4SRB	5
							TBD	5					
6	Compressor Engine	Waukesha	7042GL	339845 (Pkg 76821)	1,478 hp	1,357 hp	2/1/1980	N/A	20200202	<input type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified	<input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input checked="" type="checkbox"/> To be Replaced	4SLB	N/A
							2/1/1980	6					
6	Compressor Engine	Waukesha	7044GSI	TBD	1,900 hp	1,500 hp	TBD	Catalyst	20200202	<input type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified	<input type="checkbox"/> To be Removed <input checked="" type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	4SRB	6
							TBD	6					
7	Compressor Engine	Waukesha	7042GL	C-11889/1 (Pkg x00243)	1,478 hp	1,357 hp	1/25/1995	Catalyst	20200202	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified	<input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	4SLB	N/A
							1/25/1995	7					
8	Compressor Engine	Waukesha	7042GL	TBD	1,478 hp	1,357 hp	TBD	Catalyst	20200202	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified	<input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	4SLB	N/A
							TBD	8					
9	Compressor Engine	Waukesha	7042GL	C-11100/8 (Pkg x00067)	1,478 hp	1,357 hp	3/11/1994	Catalyst	20200202	<input type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified	<input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input checked="" type="checkbox"/> To be Replaced	4SLB	N/A
							3/11/1994	9					
9	Compressor Engine	Waukesha	7044GSI	TBD	1,900 hp	1,500 hp	TBD	Catalyst	20200202	<input type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified	<input type="checkbox"/> To be Removed <input checked="" type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	4SRB	9
							TBD	9					
17	Compressor Engine	Waukesha	7042GL	401154 (Pkg x00052)	1,478 hp	1,357 hp	9/9/1989	Catalyst	20200202	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified	<input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	4SLB	N/A
							9/9/1989	17					
18	Compressor Engine	Waukesha	7042GL	C-61618/1 (Pkg x00051)	1,478 hp	1,357 hp	2/19/1999	Catalyst	20200202	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified	<input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	4SLB	N/A
							2/19/1999	18					

Table 2-A: Regulated Emission Sources

Unit and stack numbering must correspond throughout the application package. If applying for a NOI under 20.2.73 NMAC, equipment exemptions under 2.72.202 NMAC do not apply.

Unit Number ¹	Source Description	Make	Model #	Serial #	Manufacturer's Rated Capacity ³ (Specify Units)	Requested Permitted Capacity ³ (Specify Units)	Date of Manufacture ²	Controlled by Unit #	Source Classification Code (SCC)	For Each Piece of Equipment, Check One	RICE Ignition Type (CI, SI, 4SLB, 4SRB, 2SLB) ⁴	Replacing Unit No.
							Date of Construction/ Reconstruction ²	Emissions vented to Stack #				
19	Compressor Engine	Waukesha	7042GL	TBD	1,478 hp	1,357 hp	TBD	Catalyst	20200202	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	4SLB	N/A
							TBD	19				
10a	Dehydrator Still Vent	Enertek	J2P20M11109	42384	20 mmcf	20 mmcf		N/A	31000227	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	N/A	N/A
								10a				
10b	Dehydrator Reboiler	Enertek	J2P20M11109	42384	1,648 scfh	1,648 scfh		N/A	31000228	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	N/A	N/A
								10b				
11a	Dehydrator Still Vent	Enertek	J2P20M11109	42267	20 mmcf	20 mmcf		N/A	31000227	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	N/A	N/A
								11a				
11b	Dehydrator Reboiler	Enertek	J2P20M11109	42267	1,648 scfh	1,648 scfh		N/A	31000228	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	N/A	N/A
								11b				

Table 2-A: Regulated Emission Sources

Unit and stack numbering must correspond throughout the application package. If applying for a NOI under 20.2.73 NMAC, equipment exemptions under 2.72.202 NMAC do not apply.

Unit Number ¹	Source Description	Make	Model #	Serial #	Manufacturer's Rated Capacity ³ (Specify Units)	Requested Permitted Capacity ³ (Specify Units)	Date of Manufacture ²	Controlled by Unit #	Source Classification Code (SCC)	For Each Piece of Equipment, Check One	RICE Ignition Type (CI, SI, 4SLB, 4SRB, 2SLB) ⁴	Replacing Unit No.	
							Date of Construction/ Reconstruction ²	Emissions vented to Stack #					
12a	Dehydrator Still Vent	Enertek	J2P20M11109	39062	20 mmcf	20 mmcf		N/A	31000227	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified	<input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	N/A	N/A
12b	Dehydrator Reboiler	Enertek	J2P20M11109	39062	1,648 scfh	1,648 scfh		N/A	31000228	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified	<input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	N/A	N/A
13a	Dehydrator Still Vent	Enertek	J2P12M11109	41644	12 mmcf	12 mmcf		N/A	31000227	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified	<input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	N/A	N/A
13b	Dehydrator Reboiler	Enertek	J2P12M11109	41644	1,208 scfh	1,208 scfh		N/A	31000228	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified	<input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	N/A	N/A
14a	Dehydrator Still Vent	Enertek	J2P12M11109	TBD	12 mmcf	12 mmcf		N/A	31000227	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified	<input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	N/A	N/A
14b	Dehydrator Reboiler	Enertek	J2P12M11109	TBD	1,208 scfh	1,208 scfh		N/A	31000228	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified	<input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	N/A	N/A
15a	Dehydrator Still Vent	Enertek	J2P20M11109	43797	20 mmcf	20 mmcf		N/A	31000227	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified	<input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	N/A	N/A
15b	Dehydrator Reboiler	Enertek	J2P20M11109	43797	1,648 scfh	1,648 scfh		N/A	31000228	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified	<input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	N/A	N/A
16a	Dehydrator Still Vent	Enertek	J2P20M11109	TBD	20 mmcf	20 mmcf		N/A	31000227	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified	<input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	N/A	N/A
16b	Dehydrator Reboiler	Enertek	J2P20M11109	TBD	1,648 scfh	1,648 scfh		N/A	31000228	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified	<input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	N/A	N/A
SSM	Startup, Shutdown & Maintenance Emissions	N/A	N/A	N/A	N/A	N/A	N/A	N/A	31000299	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified	<input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	N/A	N/A
MAL	Malfunction Emissions	N/A	N/A	N/A	N/A	N/A	N/A	N/A	31000299	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> New/Additional <input type="checkbox"/> To Be Modified	<input type="checkbox"/> To be Removed <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To be Replaced	N/A	N/A

¹ Unit numbers must correspond to unit numbers in the previous permit unless a complete cross reference table of all units in both permits is provided.

² Specify dates required to determine regulatory applicability.

³ To properly account for power conversion efficiencies, generator set rated capacity shall be reported as the rated capacity of the engine in horsepower, not the kilowatt capacity of the generator set.

⁴ "4SLB" means four stroke lean burn engine, "4SRB" means four stroke rich burn engine, "2SLB" means two stroke lean burn engine, "CI" means compression ignition, and "SI" means spark ignition

Table 2-B: Insignificant Activities¹ (20.2.70 NMAC) OR Exempted Equipment (20.2.72 NMAC)

All 20.2.70 NMAC (Title V) applications must list all Insignificant Activities in this table. All 20.2.72 NMAC applications must list Exempted Equipment in this table. If equipment listed on this table is exempt under 20.2.72.202.B.5, include emissions calculations and emissions totals for 202.B.5 "similar functions" units, operations, and activities in Section 6, Calculations. Equipment and activities exempted under 20.2.72.202 NMAC may not necessarily be Insignificant under 20.2.70 NMAC (and vice versa). Unit & stack numbering must be consistent throughout the application package. Per Exemptions Policy 02-012.00 (see http://www.env.nm.gov/aqb/permit/aqb_pol.html), 20.2.72.202.B NMAC Exemptions do not apply, but 20.2.72.202.A NMAC exemptions do apply to NOI facilities under 20.2.73 NMAC. List 20.2.72.301.D.4 NMAC Auxiliary Equipment for Streamline applications in Table 2-A. The List of Insignificant Activities (for TV) can be found online at <http://www.env.nm.gov/aqb/forms/InsignificantListTitleV.pdf>. TV sources may elect to enter both TV Insignificant Activities and Part 72 Exemptions on this form.

Unit Number	Source Description	Manufacturer	Model No.	Max Capacity	List Specific 20.2.72.202 NMAC Exemption (e.g. 20.2.72.202.B.5)	Date of Manufacture /Reconstruction ²	For Each Piece of Equipment, Check One
			Serial No.	Capacity Units	Insignificant Activity citation (e.g. IA List Item #1.a)	Date of Installation /Construction ²	
T1 - T9	Lubrication Oil Storage Tank			500	20.2.72.202.B(2) NMAC		<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced
				gal	Insignificant Activity List Item #5		
T10	Lubrication Oil Storage Tank			100	20.2.72.202.B(2) NMAC		<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced
				bbl	Insignificant Activity List Item #5		
T11	Wastewater Storage Tank			165	20.2.72.202.B(2) NMAC		<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced
				bbl	Insignificant Activity List Item #5		
T12	Used Oil Storage Tank			165	20.2.72.202.B(2) NMAC		<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced
				bbl	Insignificant Activity List Item #5		
T13	Used Oil Storage Tank			500	20.2.72.202.B(2) NMAC		<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced
				gal	Insignificant Activity List Item #5		
T14	Produced Water Storage Tank			400	20.2.72.202.B(5) NMAC		<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced
				bbl	Insignificant Activity List Item #1		
T15	Glycol Storage Tank			500	20.2.72.202.B(2) NMAC		<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced
				gal	Insignificant Activity List Item #5		
T16	Methanol Storage Tank			500	20.2.72.202.B(5) NMAC		<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced
				gal	Insignificant Activity List Item #1		
T17	Antifreeze Storage Tank			500	20.2.72.202.B(2) NMAC		<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced
				gal	Insignificant Activity List Item #5		
T18 - T24	Glycol Storage Tank			100	20.2.72.202.B(2) NMAC		<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced
				gal	Insignificant Activity List Item #5		
T25 - T31	Glycol Storage Tank			50	20.2.72.202.B(2) NMAC		<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced
				gal	Insignificant Activity List Item #5		
T32 - T39	Lubrication Oil Storage Tank			500	20.2.72.202.B(2) NMAC		<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced
				gal	Insignificant Activity List Item #5		
F1	Equipment Leak Emissions			N/A	20.2.72.202.B(5) NMAC		<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced
				N/A	Insignificant Activity List Item #1		
L1	Truck Loading Emissions			N/A	20.2.72.202.B(5) NMAC		<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced
				N/A	Insignificant Activity List Item #1		

¹ Insignificant activities exempted due to size or production rate are defined in 20.2.70.300.D.6, 20.2.70.7.Q NMAC, and the NMED/AQB List of Insignificant Activities, dated September 15, 2008. Emissions from these insignificant activities do not need to be reported, unless specifically requested.

² Specify date(s) required to determine regulatory applicability.

Unit and stack numbering must correspond throughout the application package. Only list control equipment for TAPs if the TAP's maximum uncontrolled emissions rate is over its respective threshold as listed in 20.2.72 NMAC, Subpart V, Tables A and B. In accordance with 20.2.72.203.A(3) and (8) NMAC, 20.2.70.300.D(5)(b) and (e) NMAC, and 20.2.73.200.B(7) NMAC, the permittee shall report all control devices and list each pollutant controlled by the control device regardless if the applicant takes credit for the reduction in emissions.

[illegible]

¹ List each control device on a separate line. For each control device, list all emission units controlled by the control device.

Table 2-D: Maximum Emissions (under normal operating conditions)

□ **This Table was intentionally left blank because it would be identical to Table 2-E.**

Maximum Emissions are the emissions at maximum capacity and prior to (in the absence of) pollution control, emission-reducing process equipment, or any other emission reduction. Calculate the hourly emissions using the worst case hourly emissions for each pollutant. For each pollutant, calculate the annual emissions as if the facility were operating at maximum plant capacity without pollution controls for 8760 hours per year, unless otherwise approved by the Department. List Hazardous Air Pollutants (HAP) & Toxic Air Pollutants (TAPs) in Table 2-I. Unit & stack numbering must be consistent throughout the application package. Fill all cells in this table with the emission numbers or a "-" symbol. A "--" symbol indicates that emissions of this pollutant are not expected. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41, 1.41, or 1.41E-4).

Unit No.	NO _x		CO		VOC		SO _x		PM ¹		PM ₁₀ ¹		PM _{2.5} ¹		H ₂ S		Lead	
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
1	2.69	11.80	8.23	36.05	2.99	13.11	5.91E-03	2.59E-02	1.00E-01	4.40E-01	1.00E-01	4.40E-01	1.00E-01	4.40E-01	-	-	-	-
2	2.69	11.80	8.23	36.05	2.99	13.11	5.91E-03	2.59E-02	1.00E-01	4.40E-01	1.00E-01	4.40E-01	1.00E-01	4.40E-01	-	-	-	-
3	38.10	166.86	29.43	128.91	1.98	8.69	7.13E-03	3.12E-02	1.21E-01	5.30E-01	1.21E-01	5.30E-01	1.21E-01	5.30E-01	-	-	-	-
4	38.10	166.86	29.43	128.91	1.98	8.69	7.13E-03	3.12E-02	1.21E-01	5.30E-01	1.21E-01	5.30E-01	1.21E-01	5.30E-01	-	-	-	-
5	38.10	166.86	29.43	128.91	1.98	8.69	7.13E-03	3.12E-02	1.21E-01	5.30E-01	1.21E-01	5.30E-01	1.21E-01	5.30E-01	-	-	-	-
6	38.10	166.86	29.43	128.91	1.98	8.69	7.13E-03	3.12E-02	1.21E-01	5.30E-01	1.21E-01	5.30E-01	1.21E-01	5.30E-01	-	-	-	-
7	2.69	11.80	8.23	36.05	2.99	13.11	5.91E-03	2.59E-02	1.00E-01	4.40E-01	1.00E-01	4.40E-01	1.00E-01	4.40E-01	-	-	-	-
8	2.69	11.80	8.23	36.05	2.99	13.11	5.91E-03	2.59E-02	1.00E-01	4.40E-01	1.00E-01	4.40E-01	1.00E-01	4.40E-01	-	-	-	-
9	38.10	166.86	29.43	128.91	1.98	8.69	7.13E-03	3.12E-02	1.21E-01	5.30E-01	1.21E-01	5.30E-01	1.21E-01	5.30E-01	-	-	-	-
17	2.69	11.80	8.23	36.05	2.99	13.11	5.91E-03	2.59E-02	1.00E-01	4.40E-01	1.00E-01	4.40E-01	1.00E-01	4.40E-01	-	-	-	-
18	2.69	11.80	8.23	36.05	2.99	13.11	5.91E-03	2.59E-02	1.00E-01	4.40E-01	1.00E-01	4.40E-01	1.00E-01	4.40E-01	-	-	-	-
19	2.69	11.80	8.23	36.05	2.99	13.11	5.91E-03	2.59E-02	1.00E-01	4.40E-01	1.00E-01	4.40E-01	1.00E-01	4.40E-01	-	-	-	-
10a	-	-	-	-	2.90	12.50	-	-	-	-	-	-	-	-	-	-	-	-
10b	0.04	0.19	0.04	0.20	0.01	0.03	8.33E-04	3.65E-03	1.25E-02	5.49E-02	1.25E-02	5.49E-02	1.25E-02	5.49E-02	-	-	-	-
11a	-	-	-	-	2.90	12.50	-	-	-	-	-	-	-	-	-	-	-	-
11b	0.04	0.19	0.04	0.20	0.01	0.03	8.33E-04	3.65E-03	1.25E-02	5.49E-02	1.25E-02	5.49E-02	1.25E-02	5.49E-02	-	-	-	-
12a	-	-	-	-	2.90	12.50	-	-	-	-	-	-	-	-	-	-	-	-
12b	0.042917	0.187975	0.044583	0.195275	0.01	0.03	0.000833	0.00365	0.012525	0.054859	0.012525	0.054859	0.012525	0.054859	-	-	-	-
13a	-	-	-	-	1.30E+00	5.80E+00	-	-	-	-	-	-	-	-	-	-	-	-
13b	0.042917	0.187975	0.0325	0.14235	0.00	0.02	0.000833	0.00365	0.009181	0.040212	0.009181	0.040212	0.009181	0.040212	-	-	-	-
14a	-	-	-	-	1.30E+00	5.80E+00	-	-	-	-	-	-	-	-	-	-	-	-
14b	0.042917	0.187975	0.0325	0.14235	0.00	0.02	0.000833	0.00365	0.009181	0.040212	0.009181	0.040212	0.009181	0.040212	-	-	-	-
15a	-	-	-	-	2.90E+00	1.25E+01	-	-	-	-	-	-	-	-	-	-	-	-
15b	0.042917	0.187975	0.044583	0.195275	0.01	0.03	0.000833	0.00365	0.012525	0.054859	0.012525	0.054859	0.012525	0.054859	-	-	-	-
16a	-	-	-	-	2.90E+00	1.25E+01	-	-	-	-	-	-	-	-	-	-	-	-
16b	0.042917	0.187975	0.044583	0.195275	0.01	0.03	0.000833	0.00365	0.012525	0.054859	0.012525	0.054859	0.012525	0.054859	-	-	-	-
SSM	-	-	-	-	-	4.60E+00	-	-	-	-	-	-	-	-	-	-	-	-
MAL	-	-	-	-	-	10.00	-	-	-	-	-	-	-	-	-	-	-	-
Totals	209.63	918.20	205.05	898.14	48.01	224.09	8.29E-02	3.63E-01	1.39	6.09	1.39	6.09	1.39	6.09	-	-	-	-

¹**Condensable Particulate Matter:** Include condensable particulate matter emissions for PM₁₀ and PM_{2.5} if the source is a combustion source. Do not include condensable particulate matter for PM unless PM is set equal to PM₁₀ and PM_{2.5}. Particulate matter (PM) is not subject to an ambient air quality standard, but PM is a regulated air pollutant under PSD (20.2.74 NMAC) and Title V (20.2.70 NMAC).

Table 2-E: Requested Allowable Emissions

Unit & stack numbering must be consistent throughout the application package. Fill all cells in this table with the emission numbers or a "-" symbol. A "--" symbol indicates that emissions of this pollutant are not expected. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41, 1.41, or 1.41E⁻⁴).

Unit No.	NO _x		CO		VOC		SO _x		PM ¹		PM10 ¹		PM2.5 ¹		H ₂ S		Lead	
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
1	2.69	11.80	8.23	36.05	2.99	13.11	5.91E-03	2.59E-02	1.00E-01	4.40E-01	1.00E-01	4.40E-01	1.00E-01	4.40E-01	-	-	-	-
2	2.69	11.80	8.23	36.05	2.99	13.11	5.91E-03	2.59E-02	1.00E-01	4.40E-01	1.00E-01	4.40E-01	1.00E-01	4.40E-01	-	-	-	-
3	2.65	11.59	4.96	21.73	1.98	8.69	7.13E-03	3.12E-02	1.21E-01	5.30E-01	1.21E-01	5.30E-01	1.21E-01	5.30E-01	-	-	-	-
4	2.65	11.59	4.96	21.73	1.98	8.69	7.13E-03	3.12E-02	1.21E-01	5.30E-01	1.21E-01	5.30E-01	1.21E-01	5.30E-01	-	-	-	-
5	2.65	11.59	4.96	21.73	1.98	8.69	7.13E-03	3.12E-02	1.21E-01	5.30E-01	1.21E-01	5.30E-01	1.21E-01	5.30E-01	-	-	-	-
6	2.65	11.59	4.96	21.73	1.98	8.69	7.13E-03	3.12E-02	1.21E-01	5.30E-01	1.21E-01	5.30E-01	1.21E-01	5.30E-01	-	-	-	-
7	2.69	11.80	0.58	2.52	0.63	2.75	5.91E-03	2.59E-02	1.00E-01	4.40E-01	1.00E-01	4.40E-01	1.00E-01	4.40E-01	-	-	-	-
8	2.69	11.80	0.58	2.52	0.63	2.75	5.91E-03	2.59E-02	1.00E-01	4.40E-01	1.00E-01	4.40E-01	1.00E-01	4.40E-01	-	-	-	-
9	2.65	11.59	4.96	21.73	1.98	8.69	7.13E-03	3.12E-02	1.21E-01	5.30E-01	1.21E-01	5.30E-01	1.21E-01	5.30E-01	-	-	-	-
17	2.69	11.80	0.58	2.52	0.63	2.75	5.91E-03	2.59E-02	1.00E-01	4.40E-01	1.00E-01	4.40E-01	1.00E-01	4.40E-01	-	-	-	-
18	2.69	11.80	0.58	2.52	0.63	2.75	5.91E-03	2.59E-02	1.00E-01	4.40E-01	1.00E-01	4.40E-01	1.00E-01	4.40E-01	-	-	-	-
19	2.69	11.80	0.58	2.52	0.63	2.75	5.91E-03	2.59E-02	1.00E-01	4.40E-01	1.00E-01	4.40E-01	1.00E-01	4.40E-01	-	-	-	-
10a	-	-	-	-	2.90	12.50	-	-	-	-	-	-	-	-	-	-	-	-
10b	4.29E-02	1.88E-01	4.46E-02	1.95E-01	6.46E-03	2.83E-02	8.33E-04	3.65E-03	1.25E-02	5.49E-02	1.25E-02	5.49E-02	1.25E-02	5.49E-02	-	-	-	-
11a	-	-	-	-	2.90	12.50	-	-	-	-	-	-	-	-	-	-	-	-
11b	4.29E-02	1.88E-01	4.46E-02	1.95E-01	6.46E-03	2.83E-02	8.33E-04	3.65E-03	1.25E-02	5.49E-02	1.25E-02	5.49E-02	1.25E-02	5.49E-02	-	-	-	-
12a	-	-	-	-	2.90	12.50	-	-	-	-	-	-	-	-	-	-	-	-
12b	4.29E-02	1.88E-01	4.46E-02	1.95E-01	6.46E-03	2.83E-02	8.33E-04	3.65E-03	1.25E-02	5.49E-02	1.25E-02	5.49E-02	1.25E-02	5.49E-02	-	-	-	-
13a	-	-	-	-	1.30	5.80	-	-	-	-	-	-	-	-	-	-	-	-
13b	4.29E-02	1.88E-01	3.25E-02	1.42E-01	4.79E-03	2.10E-02	8.33E-04	3.65E-03	9.18E-03	4.02E-02	9.18E-03	4.02E-02	9.18E-03	4.02E-02	-	-	-	-
14a	-	-	-	-	1.30	5.80	-	-	-	-	-	-	-	-	-	-	-	-
14b	4.29E-02	1.88E-01	3.25E-02	1.42E-01	4.79E-03	2.10E-02	8.33E-04	3.65E-03	9.18E-03	4.02E-02	9.18E-03	4.02E-02	9.18E-03	4.02E-02	-	-	-	-
15a	-	-	-	-	2.90	12.50	-	-	-	-	-	-	-	-	-	-	-	-
15b	4.29E-02	1.88E-01	4.46E-02	1.95E-01	6.46E-03	2.83E-02	8.33E-04	3.65E-03	1.25E-02	5.49E-02	1.25E-02	5.49E-02	1.25E-02	5.49E-02	-	-	-	-
16a	-	-	-	-	2.90	12.50	-	-	-	-	-	-	-	-	-	-	-	-
16b	4.29E-02	1.88E-01	4.46E-02	1.95E-01	6.46E-03	2.83E-02	8.33E-04	3.65E-03	1.25E-02	5.49E-02	1.25E-02	5.49E-02	1.25E-02	5.49E-02	-	-	-	-
SSM	-	-	-	-	-	4.60	-	-	-	-	-	-	-	-	-	-	-	-
MAL	-	-	-	-	-	10.00	-	-	-	-	-	-	-	-	-	-	-	-
Totals	32.38	141.83	44.43	194.60	36.19	172.31	0.08	0.36	1.39	6.09	1.39	6.09	1.39	6.09	-	-	-	-

¹ **Condensable Particulate Matter:** Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source. Do not include condensable particulate matter for PM unless PM is set equal to PM10 and PM2.5. Particulate matter (PM) is not subject to an ambient air quality standard, but it is a regulated air pollutant under PSD (20.2.74 NMAC) and Title V (20.2.70 NMAC).

Table 2-F: Additional Emissions during Startup, Shutdown, and Routine Maintenance (SSM)

□ This table is intentionally left blank since all emissions at this facility due to routine or predictable startup, shutdown, or scheduled maintenance are no higher than those listed in Table 2-E and a malfunction emission limit is not already permitted or requested. If you are required to report GHG emissions as described in Section 6a, include any GHG emissions during Startup, Shutdown, and/or Scheduled Maintenance (SSM) in Table 2-P. Provide an explanations of SSM emissions in Section 6 and 6a.

All applications for facilities that have emissions during routine or predictable startup, shutdown or scheduled maintenance (SSM)¹, including NOI applications, must include in this table the Maximum Emissions during routine or predictable startup, shutdown and scheduled maintenance (20.2.7 NMAC, 20.2.72.203.A.3 NMAC, 20.2.73.200.D.2 NMAC). In Section 6 and 6a, provide emissions calculations for all SSM emissions reported in this table. Refer to "Guidance for Submittal of Startup, Shutdown, Maintenance Emissions in Permit Applications (https://www.env.nm.gov/aqb/permit/aqb_pol.html) for more detailed instructions. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41, 1.41, or 1.41E-4).

Unit No.	NOx		CO		VOC		SOx		PM ²		PM10 ²		PM2.5 ²		H ₂ S		Lead	
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SSM	-	-	-	-	-	4.60	-	-	-	-	-	-	-	-	-	-	-	-
MAL	-	-	-	-	-	10.00	-	-	-	-	-	-	-	-	-	-	-	-
Totals	-	-	-	-	-	14.60	-	-	-	-	-	-	-	-	-	-	-	-

¹ For instance, if the short term steady-state Table 2-E emissions are 5 lb/hr and the SSM rate is 12 lb/hr, enter 7 lb/hr in this table. If the annual steady-state Table 2-E emissions are 21.9 TPY, and the number of scheduled SSM events result in annual emissions of 31.9 TPY, enter 10.0 TPY in the table below.

² **Condensable Particulate Matter:** Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source. Do not include condensable particulate matter for PM unless PM is set equal to PM10 and PM2.5. Particulate matter (PM) is not subject to an ambient air quality standard, but it is a regulated air pollutant under PSD (20.2.74 NMAC) and Title V (20.2.70 NMAC).

☒ I have elected to leave this table blank because this facility does not have any stacks/vents that split emissions from a single source or combine emissions from more than one source listed in table 2-A. Additionally, the emission rates of all stacks match the Requested allowable emission rates stated in Table 2-E.

[illegible]

Unit and stack numbering must correspond throughout the application package. Include the stack exit conditions for each unit that emits from a stack, including blowdown venting parameters and tank emissions. If the facility has multiple operating scenarios, complete a separate Table 2-H for each scenario and, for each, type scenario name here:

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Table 2-I: Stack Exit and Fugitive Emission Rates for HAPs and TAPs

In the table below, report the Potential to Emit for each HAP from each regulated emission unit listed in Table 2-A, only if the entire facility emits the HAP at a rate greater than or equal to one (1) ton per year. For each such emission unit, HAPs shall be reported to the nearest 0.1 tpy. Each facility-wide Individual HAP total and the facility-wide Total HAPs shall be the sum of all HAP sources calculated to the nearest 0.1 ton per year. Per 20.2.72.403.A.1 NMAC, facilities not exempt [see 20.2.72.402.C NMAC] from TAP permitting shall report each TAP that has an uncontrolled emission rate in excess of its pounds per hour screening level specified in 20.2.72.502 NMAC. TAPs shall be reported using one more significant figure than the number of significant figures shown in the pound per hour threshold corresponding to the substance. Use the HAP nomenclature as it appears in Section 112 (b) of the 1990 CAAA and the TAP nomenclature as it listed in 20.2.72.502 NMAC. Include tank-flashing emissions estimates of HAPs in this table. For each HAP or TAP listed, fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected or the pollutant is emitted in a quantity less than the threshold amounts described above.

Stack No.	Unit No.(s)	Total HAPs		Formaldehyde <input checked="" type="checkbox"/> HAP or <input type="checkbox"/> TAP		Provide Pollutant Name Here <input type="checkbox"/> HAP or <input type="checkbox"/> TAP		Provide Pollutant Name Here <input type="checkbox"/> HAP or <input type="checkbox"/> TAP		Provide Pollutant Name Here <input type="checkbox"/> HAP or <input type="checkbox"/> TAP		Provide Pollutant Name Here <input type="checkbox"/> HAP or <input type="checkbox"/> TAP		Provide Pollutant Name Here <input type="checkbox"/> HAP or <input type="checkbox"/> TAP		Provide Pollutant Name Here <input type="checkbox"/> HAP or <input type="checkbox"/> TAP		Provide Pollutant Name Here <input type="checkbox"/> HAP or <input type="checkbox"/> TAP	
		lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
1	1	0.5	2.3	0.5	2.2														
2	2	0.5	2.3	0.5	2.2														
3	3	-	0.2	-	0.1														
4	4	-	0.2	-	0.1														
5	5	-	0.2	-	0.1														
6	6	-	0.2	-	0.1														
7	7	-	0.2	-	0.2														
8	8	-	0.2	-	0.2														
9	9	-	0.2	-	0.1														
17	17	-	0.2	-	0.2														
18	18	-	0.2	-	0.2														
19	19	-	0.2	-	0.2														
10a	10a	-	-	-	-														
10b	10b	-	-	-	-														
11a	11a	-	-	-	-														
11b	11b	-	-	-	-														
12a	12a	-	-	-	-														
12b	12b	-	-	-	-														
13a	13a	-	-	-	-														
13b	13b	-	-	-	-														
14a	14a	-	-	-	-														
14b	14b	-	-	-	-														
15a	15a	-	-	-	-														
15b	15b	-	-	-	-														
16a	16a	-	-	-	-														
16b	16b	-	-	-	-														
SSM	SSM	-	-	-	-														
MAL	MAL	-	-	-	-														
Totals:		1.5	6.6	1.3	5.7														

Specify fuel characteristics and usage. Unit and stack numbering must correspond throughout the application package.

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For each tank, list the liquid(s) to be stored in each tank. If it is expected that a tank may store a variety of hydrocarbon liquids, enter "mixed hydrocarbons" in the Composition column for that tank and enter the corresponding data of the most volatile liquid to be stored in the tank. If tank is to be used for storage of different materials, list all the materials in the "All Calculations" attachment, run the newest version of TANKS on each, and use the material with the highest emission rate to determine maximum uncontrolled and requested allowable emissions rate. The permit will specify the most volatile category of liquids that may be stored in each tank. Include appropriate tank-flashing modeling input data. Use additional sheets if necessary. Unit and stack numbering must correspond throughout the application package.

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Include appropriate tank-flashing modeling input data. Use an addendum to this table for unlisted data categories. Unit and stack numbering must correspond throughout the application package. Use additional sheets if necessary. See reference Table 2-L2. Note: 1.00 bbl = 10.159 M3 = 42.0 gal

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Table 2-L2: Liquid Storage Tank Data Codes Reference Table

Roof Type	Seal Type, Welded Tank Seal Type		Seal Type, Riveted Tank Seal Type		Roof, Shell Color	Paint Condition
FX: Fixed Roof	Mechanical Shoe Seal	Liquid-mounted resilient seal	Vapor-mounted resilient seal	Seal Type	WH: White	Good
IF: Internal Floating Roof	A: Primary only	A: Primary only	A: Primary only	A: Mechanical shoe, primary only	AS: Aluminum (specular)	Poor
EF: External Floating Roof	B: Shoe-mounted secondary	B: Weather shield	B: Weather shield	B: Shoe-mounted secondary	AD: Aluminum (diffuse)	
P: Pressure	C: Rim-mounted secondary	C: Rim-mounted secondary	C: Rim-mounted secondary	C: Rim-mounted secondary	LG: Light Gray	
Note: 1.00 bbl = 0.159 M ³ = 42.0 gal					MG: Medium Gray	
					BL: Black	
					OT: Other (specify)	

Note: $1.00 \text{ bbl} = 0.159 \text{ M}^3 = 42.0 \text{ gal}$

Table 2-M: Materials Processed and Produced (Use additional sheets as necessary.)

[illegible]

Enter Continuous Emissions Measurement (CEM) Data in this table. If CEM data will be used as part of a federally enforceable permit condition, or used to satisfy the requirements of a state or federal regulation, include a copy of the CEM's manufacturer specification sheet in the Information Used to Determine Emissions attachment. Unit and stack numbering must correspond throughout the application package. Use additional sheets if necessary.

[illegible]

Unit and stack numbering must correspond throughout the application package. Use additional sheets if necessary.

[illegible]

Table 2-P: Greenhouse Gas Emissions

Applications submitted under 20.2.70, 20.2.72, & 20.2.74 NMAC are required to complete this Table. Power plants, Title V major sources, and PSD major sources must report and calculate all GHG emissions for each unit. Applicants must report potential emission rates in short tons per year (see Section 6.a for assistance). Include GHG emissions during Startup, Shutdown, and Scheduled Maintenance in this table. For minor source facilities that are not power plants, are not Title V, or are not PSD, there are three options for reporting GHGs 1) report GHGs for each individual piece of equipment; 2) report all GHGs from a group of unit types, for example report all combustion source GHGs as a single unit and all venting GHG as a second separate unit; OR 3) check the following box ☐ By checking this box, the applicant acknowledges the total CO₂e emissions are less than 75,000 tons per year.

		CO ₂ ton/yr	N ₂ O ton/yr	CH ₄ ton/yr	SF ₆ ton/yr	PFC/HFC ton/yr ²									Total GHG Mass Basis ton/yr ⁴	Total CO ₂ e ton/yr ⁵
Unit No.	GWP _s ¹	1	298	25	22,800	footnote 3										
1	mass GHG	6010.45	1.13E-02	1.13E-01											6010.58	-
	CO ₂ e	6010.45	3.38	2.83											-	6016.66
2	mass GHG	6010.45	1.13E-02	1.13E-01											6010.58	-
	CO ₂ e	6010.45	3.38	2.83											-	6016.66
3	mass GHG	6197.56	1.17E-01	1.17E-02											6197.68	-
	CO ₂ e	6197.56	34.81	0.29											-	6232.65
4	mass GHG	6197.56	1.17E-01	1.17E-02											6197.68	-
	CO ₂ e	6197.56	34.81	0.29											-	6232.65
5	mass GHG	6197.56	1.17E-01	1.17E-02											6197.68	-
	CO ₂ e	6197.56	34.81	0.29											-	6232.65
6	mass GHG	6197.56	1.17E-01	1.17E-02											6197.68	-
	CO ₂ e	6197.56	34.81	0.29											-	6232.65
7	mass GHG	6010.45	1.13E-02	1.13E-01											6010.58	-
	CO ₂ e	6010.45	3.38	2.83											-	6016.66
8	mass GHG	6010.45	1.13E-02	1.13E-01											6010.58	-
	CO ₂ e	6010.45	3.38	2.83											-	6016.66
9	mass GHG	6197.56	1.17E-01	1.17E-02											6197.68	-
	CO ₂ e	6197.56	34.81	0.29											-	6232.65
17	mass GHG	6010.45	1.13E-02	1.13E-01											6010.58	-
	CO ₂ e	6010.45	3.38	2.83											-	6016.66
18	mass GHG	6010.45	1.13E-02	1.13E-01											6010.58	-
	CO ₂ e	6010.45	3.38	2.83											-	6016.66
19	mass GHG	6010.45	1.13E-02	1.13E-01											6010.58	-
	CO ₂ e	6010.45	3.38	2.83											-	6016.66
10a	mass GHG	23.13	-	1.61											24.73386	-
	CO ₂ e	23.13	-	40.19											-	63.3129
10b	mass GHG	842.60	1.59E-03	1.59E-02											842.61706	-
	CO ₂ e	842.60	4.73E-01	3.97E-01											-	843.46982

Table 2-P: Greenhouse Gas Emissions

Applications submitted under 20.2.70, 20.2.72, & 20.2.74 NMAC are required to complete this Table. Power plants, Title V major sources, and PSD major sources must report and calculate all GHG emissions for each unit. Applicants must report potential emission rates in short tons per year (see Section 6.a for assistance). Include GHG emissions during Startup, Shutdown, and Scheduled Maintenance in this table. For minor source facilities that are not power plants, are not Title V, or are not PSD, there are three options for reporting GHGs 1) report GHGs for each individual piece of equipment; 2) report all GHGs from a group of unit types, for example report all combustion source GHGs as a single unit and all venting GHG as a second separate unit; OR 3) check the following box ☐ By checking this box, the applicant acknowledges the total CO₂e emissions are less than 75,000 tons per year.

		CO ₂ ton/yr	N ₂ O ton/yr	CH ₄ ton/yr	SF ₆ ton/yr	PFC/HFC ton/yr ²									Total GHG Mass Basis ton/yr ⁴	Total CO ₂ e ton/yr ⁵
Unit No.	GWP _s ¹	1	298	25	22,800	footnote 3										
11a	mass GHG	23.13	-	1.61											24.73386	-
	CO ₂ e	23.13	-	40.19											-	63.3129
11b	mass GHG	842.60	1.59E-03	1.59E-02											842.61706	-
	CO ₂ e	842.60	4.73E-01	3.97E-01											-	843.46982
12a	mass GHG	23.13	-	1.61											24.73386	-
	CO ₂ e	23.13	-	40.19											-	63.3129
12b	mass GHG	842.60	1.59E-03	1.59E-02											842.61706	-
	CO ₂ e	842.60	4.73E-01	3.97E-01											-	843.46982
13a	mass GHG	11.17	-	7.75E-01											11.94426	-
	CO ₂ e	11.17	-	19.38											-	30.5505
13b	mass GHG	617.63	1.16E-03	1.16E-02											617.64649	-
	CO ₂ e	617.63	3.47E-01	2.91E-01											-	618.27157
14a	mass GHG	11.17	-	7.75E-01											11.94426	-
	CO ₂ e	11.17	-	19.38											-	30.5505
14b	mass GHG	617.63	1.16E-03	1.16E-02											617.64649	-
	CO ₂ e	617.63	3.47E-01	2.91E-01											-	618.27157
15a	mass GHG	23.13	-	1.61											24.73386	-
	CO ₂ e	23.13	-	40.19											-	63.3129
15b	mass GHG	842.60	1.59E-03	1.59E-02											842.61706	-
	CO ₂ e	842.60	4.73E-01	3.97E-01											-	843.46982
16a	mass GHG	23.13	-	1.61											24.73386	-
	CO ₂ e	23.13	-	40.19											-	63.3129
16b	mass GHG	842.60	1.59E-03	1.59E-02											842.61706	-
	CO ₂ e	842.60	4.73E-01	3.97E-01											-	843.46982
SSM	mass GHG	373.90659		1017.1449	Includes SSM and compressor venting										1391.0515	-
	CO ₂ e	373.90659	-	25428.623											-	25802.529
MAL	mass GHG	1210.6694	-	3290.0339											4500.7033	-
	CO ₂ e	1210.6694	-	82250.847											-	83461.516
	mass GHG															

Table 2-P: Greenhouse Gas Emissions

Applications submitted under 20.2.70, 20.2.72, & 20.2.74 NMAC are required to complete this Table. Power plants, Title V major sources, and PSD major sources must report and calculate all GHG emissions for each unit. Applicants must report potential emission rates in short tons per year (see Section 6.a for assistance). Include GHG emissions during Startup, Shutdown, and Scheduled Maintenance in this table. For minor source facilities that are not power plants, are not Title V, or are not PSD, there are three options for reporting GHGs 1) report GHGs for each individual piece of equipment; 2) report all GHGs from a group of unit types, for example report all combustion source GHGs as a single unit and all venting GHG as a second separate unit; OR 3) check the following box ☐ By checking this box, the applicant acknowledges the total CO₂e emissions are less than 75,000 tons per year.

		CO ₂ ton/yr	N ₂ O ton/yr	CH ₄ ton/yr	SF ₆ ton/yr	PFC/HFC ton/yr ²									Total GHG Mass Basis ton/yr ⁴	Total CO ₂ e ton/yr ⁵
Unit No.	GWPs ¹	1	298	25	22,800	footnote 3										
	CO ₂ e															
Totals	mass GHG	80231.76	6.74E-01	4317.72											84550.15	-
	CO ₂ e	80231.76	200.73	107943.02											-	188375.50

¹ GWP (Global Warming Potential): Applicants must use the most current GWPs codified in Table A-1 of 40 CFR part 98. GWPs are subject to change, therefore, applicants need to check 40 CFR 98 to confirm GWP values.

² For HFCs or PFCs describe the specific HFC or PFC compound and use a separate column for each individual compound.

³ For each new compound, enter the appropriate GWP for each HFC or PFC compound from Table A-1 in 40 CFR 98.

⁴ Green house gas emissions on a **mass basis** is the ton per year green house gas emission before adjustment with its GWP.

⁵ CO₂e means Carbon Dioxide Equivalent and is calculated by multiplying the TPY mass emissions of the green house gas by its GWP.

Section 3

Application Summary

The **Application Summary** shall include a brief description of the facility and its process, the type of permit application, the applicable regulation (i.e. 20.2.72.200.A.X, or 20.2.73 NMAC) under which the application is being submitted, and any air quality permit numbers associated with this site. If this facility is to be collocated with another facility, provide details of the other facility including permit number(s). In case of a revision or modification to a facility, provide the lowest level regulatory citation (i.e. 20.2.72.219.B.1.d NMAC) under which the revision or modification is being requested. Also describe the proposed changes from the original permit, how the proposed modification will affect the facility's operations and emissions, de-bottlenecking impacts, and changes to the facility's major/minor status (both PSD & Title V).

The **Process Summary** shall include a brief description of the facility and its processes.

Startup, Shutdown, and Maintenance (SSM) routine or predictable emissions: Provide an overview of how SSM emissions are accounted for in this application. Refer to "Guidance for Submittal of Startup, Shutdown, Maintenance Emissions in Permit Applications (http://www.env.nm.gov/aqb/permit/app_form.html) for more detailed instructions on SSM emissions.

Application Summary

Harvest Four Corners, LLC (Harvest) is submitting this permit application to the New Mexico Air Quality Bureau (NMAQB) to revise the 32-8 #2 Central Point Delivery (32-8 #2 CDP) Compressor Station, New Source Review Construction (NSR) Permit 1033-M5-R9, issued December 1, 2021. This application for a significant permit revision is submitted under Section 20.2.72.219.D(1) of the New Mexico Administrative Code (NMAC).

The 32-8 #2 CDP compresses pipeline quality natural gas for transport through natural gas pipelines. The permitted equipment at the facility currently includes 12 Waukesha 7042GL compressor engines, of which six (6) are uncontrolled (Units 1 through 6) and six (6) with carbon monoxide (CO) and volatile organic compound (VOC) emission controls (Units 7-9 and 17-19); two (2) 12 million cubic feet per day (mmcf) triethylene glycol (TEG) dehydrators, Units 13a/b and 14a/b; and five (5) 20 mmcf TEG dehydrators, Units 10a/b through 12a/b, 15a/b and 16a/b. In addition to the regulated equipment, the facility includes numerous exempt/insignificant organic liquid storage tanks and fugitive emissions. The applicable regulation is 20.2.72 New Mexico Administrative Code (NMAC). The lowest level regulatory citation is 20.2.72.219.D(1) NMAC.

The following permit changes are requested:

- Replace five existing Waukesha 7042GL engines (Unit Nos. 3-6 and 9) with Waukesha 7044GSI engines (Unit Nos. 3-6 and 9). There will be a reduction in NOx, CO and VOC emissions associated with the project.

Process Description

The facility compresses and dehydrates pipeline quality natural gas. See Section 10 for more details.

Startup, Shutdown and Maintenance Emissions

Except for blowdown events (described below), it is concluded there are no SSM emissions in excess of those identified for steady-state operation as seen in Table 2-E of Section 2. Discussions justifying this conclusion are provided in Section 6.

SSM emissions from blowdowns of the compressors and piping associated with the facility were calculated from the quantity of gas vented during each event, the composition of the gas, and the number of events. The number of blowdowns events were estimated based on historical operations. A safety factor was included.

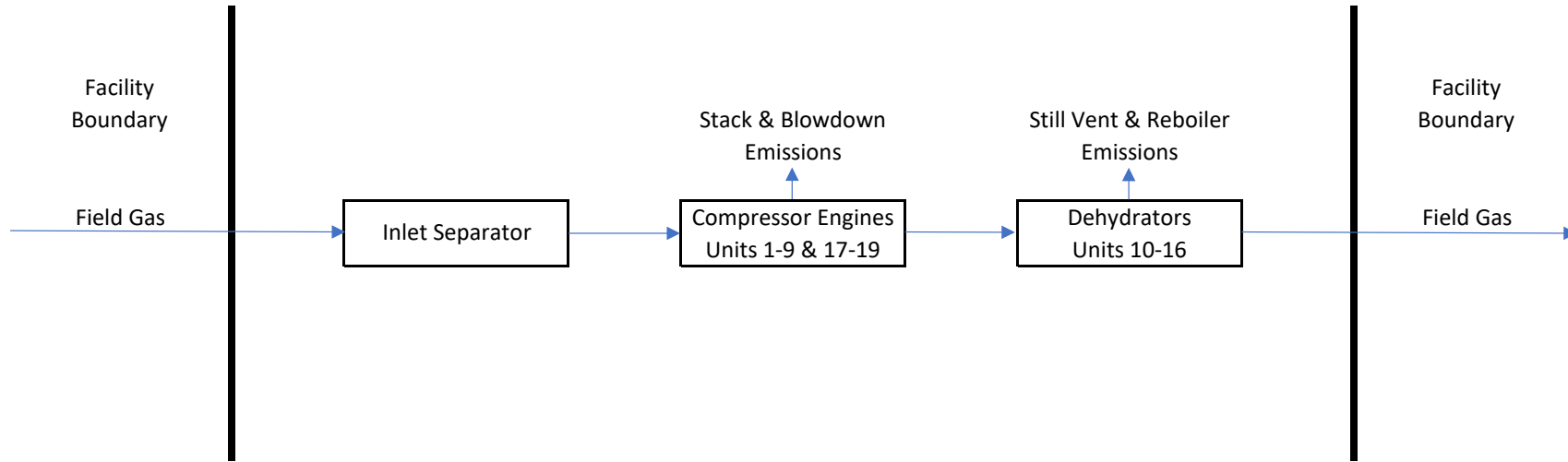
Section 4

Process Flow Sheet

A **process flow sheet** and/or block diagram indicating the individual equipment, all emission points and types of control applied to those points. The unit numbering system should be consistent throughout this application.

A process flow diagram is provided in this section. Please see the following page.

Flow Diagram

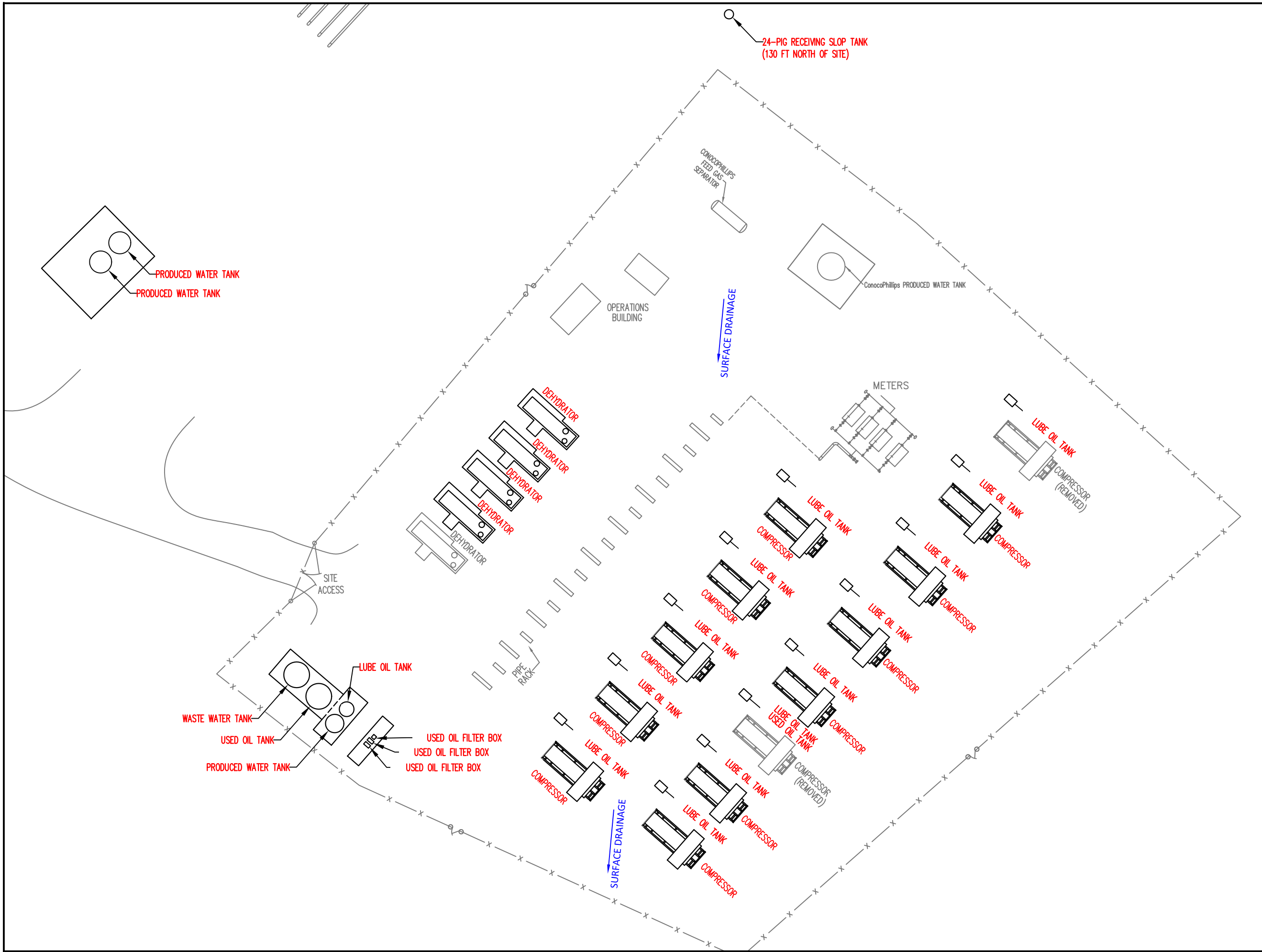


Section 5

Plot Plan Drawn To Scale

A **plot plan drawn to scale** showing emissions points, roads, structures, tanks, and fences of property owned, leased, or under direct control of the applicant. This plot plan must clearly designate the restricted area as defined in UA1, Section 1-D.12. The unit numbering system should be consistent throughout this application.

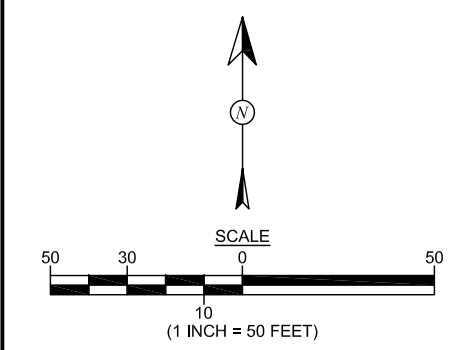
A plot plan is provided in this section. Please see the following page.



FACILITY LAYOUT
 WILLIAMS FOUR CORNERS LLC
 32-8 #2 CDP FACILITY
 SE ¼ NW¼, SECTION 27, T32N, R8W
 SAN JUAN COUNTY, NEW MEXICO
 N36.95636, W107.66296



DRAWN BY: C. Lameman	DATE DRAWN: December 4, 2013
REVISIONS BY: C. Lameman	DATE REVISED: December 31, 2015
CHECKED BY: S. Hinds	DATE CHECKED: December 31, 2015
APPROVED BY: E. McNally	DATE APPROVED: December 31, 2015



Section 6

All Calculations

Show all calculations used to determine both the hourly and annual controlled and uncontrolled emission rates. All calculations shall be performed keeping a minimum of three significant figures. Document the source of each emission factor used (if an emission rate is carried forward and not revised, then a statement to that effect is required). If identical units are being permitted and will be subject to the same operating conditions, submit calculations for only one unit and a note specifying what other units to which the calculations apply. All formulas and calculations used to calculate emissions must be submitted. The "Calculations" tab in the UA2 has been provided to allow calculations to be linked to the emissions tables. Add additional "Calc" tabs as needed. If the UA2 or other spread sheets are used, all calculation spread sheet(s) shall be submitted electronically in Microsoft Excel compatible format so that formulas and input values can be checked. Format all spread sheets and calculations such that the reviewer can follow the logic and verify the input values. Define all variables. If calculation spread sheets are not used, provide the original formulas with defined variables. Additionally, provide subsequent formulas showing the input values for each variable in the formula. All calculations, including those calculations are imbedded in the Calc tab of the UA2 portion of the application, the printed Calc tab(s), should be submitted under this section.

Tank Flashing Calculations: The information provided to the AQB shall include a discussion of the method used to estimate tank-flashing emissions, relative thresholds (i.e., NOI, permit, or major source (NSPS, PSD or Title V)), accuracy of the model, the input and output from simulation models and software, all calculations, documentation of any assumptions used, descriptions of sampling methods and conditions, copies of any lab sample analysis. If Hysis is used, all relevant input parameters shall be reported, including separator pressure, gas throughput, and all other relevant parameters necessary for flashing calculation.

SSM Calculations: It is the applicant's responsibility to provide an estimate of SSM emissions or to provide justification for not doing so. In this Section, provide emissions calculations for Startup, Shutdown, and Routine Maintenance (SSM) emissions listed in the Section 2 SSM and/or Section 22 GHG Tables and the rational for why the others are reported as zero (or left blank in the SSM/GHG Tables). Refer to "Guidance for Submittal of Startup, Shutdown, Maintenance Emissions in Permit Applications (http://www.env.nm.gov/aqb/permit/app_form.html) for more detailed instructions on calculating SSM emissions. If SSM emissions are greater than those reported in the Section 2, Requested Allowables Table, modeling may be required to ensure compliance with the standards whether the application is NSR or Title V. Refer to the Modeling Section of this application for more guidance on modeling requirements.

Glycol Dehydrator Calculations: The information provided to the AQB shall include the manufacturer's maximum design recirculation rate for the glycol pump. If GRI-Glycalc is used, the full input summary report shall be included as well as a copy of the gas analysis that was used.

Road Calculations: Calculate fugitive particulate emissions and enter haul road fugitives in Tables 2-A, 2-D and 2-E for:

1. If you transport raw material, process material and/or product into or out of or within the facility and have PER emissions greater than 0.5 tpy.
2. If you transport raw material, process material and/or product into or out of the facility more frequently than one round trip per day.

Significant Figures:

A. All emissions standards are deemed to have at least two significant figures, but not more than three significant figures.

B. At least 5 significant figures shall be retained in all intermediate calculations.

C. In calculating emissions to determine compliance with an emission standard, the following rounding off procedures shall be used:

- (1) If the first digit to be discarded is less than the number 5, the last digit retained shall not be changed;
- (2) If the first digit discarded is greater than the number 5, or if it is the number 5 followed by at least one digit other than the number zero, the last figure retained shall be increased by one unit; **and**
- (3) If the first digit discarded is exactly the number 5, followed only by zeros, the last digit retained shall be rounded upward if it is an odd number, but no adjustment shall be made if it is an even number.
- (4) The final result of the calculation shall be expressed in the units of the standard.

Control Devices: In accordance with 20.2.72.203.A(3) and (8) NMAC, 20.2.70.300.D(5)(b) and (e) NMAC, and 20.2.73.200.B(7) NMAC, the permittee shall report all control devices and list each pollutant controlled by the control device

regardless if the applicant takes credit for the reduction in emissions. The applicant can indicate in this section of the application if they chose to not take credit for the reduction in emission rates. For notices of intent submitted under 20.2.73 NMAC, only uncontrolled emission rates can be considered to determine applicability unless the state or federal Acts require the control. This information is necessary to determine if federally enforceable conditions are necessary for the control device, and/or if the control device produces its own regulated pollutants or increases emission rates of other pollutants.

Engines

The engines NO_x, CO, and VOC emissions were calculated from manufacturer's data. The SO₂ and particulate emissions were calculated using AP-42 emission factors from Table 3.2-2. HAP emissions were calculated using GRI-HAPCalc 3.0. All emissions were calculated assuming each engine operates at full site capacity for 8,760 hours per year.

The engines startup with no load and a rich fuel mixture. As a result, emissions are minimized. Because the engines take only minutes to reach operating temperature, emissions during startup are not expected to exceed the steady-state allowable limits. Similarly, emissions during shutdown do not exceed the steady-state allowable limits, because fuel and air flow cease within seconds of shutdown. Emissions due to scheduled maintenance are negligible as the engines are not in operation during maintenance.

Five existing Waukesha 7042GL engines (Unit Nos. 3-6 and 9) will be replaced with Waukesha 7044GSI engines (Unit Nos. 3-6 and 9).

SSM (Compressors and Piping)

SSM blowdown emissions from the compressors and piping associated with the facility occur when high pressure gas is used to purge air from the system prior to startup. Also, after shutdowns, high pressure gas is released to atmosphere as a safety precaution.

VOC and HAP emissions from blowdowns of the turbines, compressors and piping associated with the station were calculated from the quantity of gas vented during each event, the composition of the gas, and the number of events. The quantity of gas vented during each event was determined by Harvest engineering. The composition of the gas was determined from a recent extended gas analysis. For each unit, the annual number of blowdown events were estimated based on historical operations. A safety factor was added because emissions from each blowdown event are dependent on the composition of the gas in the pipeline and because the number of blowdowns in a year may vary. Use of the safety factor is also designed to ensure an adequate emissions limit, which includes emissions from other miscellaneous startup, shutdown and maintenance activities.

The SSM emissions identified in this application are routine or predictable startup/shutdown and scheduled maintenance and do not include malfunctions or upsets.

No modifications are being made to the SSM emissions. Permitted VOC emissions are carried forward and not revised.

Dehydrator Still Vents

The dehydrator still vents VOC and HAP emissions were calculated using GRI-GLYCalc 4.0. All emissions were calculated assuming each dehydrator operates at full capacity for 8,760 hours per year. To allow for variability in the composition of the inlet gas stream, the dehydrator still vent VOC emission rates identified on the application forms (Table 2-E) are higher than the calculated emission rates in this section.

During startup, the dehydrator reboiler is brought up to temperature before allowing glycol into the absorber. This prevents excess VOC and HAP from collecting in the glycol stream and there are no excess startup emissions above those expected during steady-state operation. During shutdown, the reboiler is shut down in conjunction with the gas flow and glycol circulation. Again, this prevents excess VOC and HAP from collecting in the glycol stream and there are no excess shutdown emissions above those expected during steady-state operation. Emissions due to scheduled maintenance are negligible; either the unit will not be in operation during maintenance or maintenance is limited to tasks for which there are no excess emissions.

No modifications are being made to the dehydrators or their operation. Permitted VOC emissions are carried forward and not revised.

Dehydrator Reboilers

The dehydrator reboiler NO_x and CO emission factors were identified from an Enertek letter dated August 19, 1994. The VOC and SO₂ emission factors were identified from an InFab letter dated July 22, 1998. The particulate and lead emissions were calculated using AP-42 emission factors from Table 1.4-2. HAP emissions were calculated using GRI-HAPCalc 3.0. All emissions were calculated assuming each reboiler operates 8,760 hours per year.

The dehydrator reboilers (uncontrolled) startup with less fuel input than during steady-state operation, so emissions are lower than during steady-state operation. During shutdown, the fuel supply stops quickly, but air flow may not, causing the continued formation of NO_x. Even so, with no fuel, NO_x formation should be less than during steady-state operation. Emissions due to scheduled maintenance are negligible as the units are not in operation.

No modifications are being made to the dehydrator reboilers or their operation. Permitted criteria pollutant and HAP emissions are carried forward and not revised.

Truck Loading (Produced Water)

Produced water truck loading VOC emissions were calculated using the AP-42 emissions factor identified in Section 5.2-1. The data used to calculate the emission factor was obtained assuming the liquid was pure water.

Due to the nature of the source, it is estimated that SSM emissions from truck loading are accounted for in the calculations.

The produced water truck loading is an exempt source in accordance with 20.2.72.202.B(5) NMAC (VOC emissions are less than 0.5 tons per year).

Equipment Leak Emissions

Equipment leak VOC and HAP emissions were calculated using emission factors from Table 2.4 of the 1995 Protocol for Equipment Leak Emission Estimates published by the Environmental Protection Agency (EPA) and the gas stream composition obtained from a recent extended gas analysis. Emissions were calculated assuming the equipment operates 8,760 hours per year.

Due to the nature of the source, it is estimated that SSM emissions from the equipment are accounted for in the calculations.

The equipment leak emissions are an exempt source in accordance with 20.2.72.202.B(5) NMAC (VOC emissions are less than 0.5 tons per year).

Malfunctions

Malfunction emissions were set at 10.0 tons of VOC per year to account for emissions that may occur during upsets and malfunctions (including, but not limited to, unscheduled blowdowns and relief valve release). Based on the gas release rate associated with the set annual VOC emission rate, HAP emissions are calculated using a recent extended gas analysis. Note that these malfunction emissions include the venting of gas only, not combustion emissions.

No modifications are being made to the malfunction emissions. Permitted VOC emissions are carried forward and not revised.

Storage Tanks

Where needed, working/breathing losses for the storage tanks were calculated using TANKS 4.0.9d. The following assumptions were made:

- Produced water was assumed to contain 99% water and 1% natural gasoline (using default composition identified in GRI-HAPCalc);
- Residual oil #6 was used as an estimate for lubrication oil. As the vapor pressure of residual oil #6 is less than 0.2 psia, the tanks containing lubrication oil are NSR exempt sources under 20.2.72.202.B(2) NMAC and Title V insignificant sources in accordance with Insignificant Activity Item #5;
- As the vapor pressure of TEG is less than 0.2 psia, the tanks containing TEG are exempt sources under 20.2.72.202.B(2) NMAC and Title V insignificant sources in accordance with Insignificant Activity List Item #5;
- The wastewater storage tanks are assumed to be 99% water and 1% residual oil. As the vapor pressure of residual oil is less than 0.2 psia, the tanks containing wastewater are exempt sources under 20.2.72.202.B(2) NMAC and Title V insignificant sources in accordance with Insignificant Activity List Item #5;
- The anti-freeze is an inhibited ethylene glycol (EG) coolant containing 50 percent EG and 50 percent water. As the vapor pressure of EG is less than 0.2 psia, the tanks containing antifreeze are exempt sources under 20.2.72.202.B(2) NMAC and Title V insignificant sources in accordance with Insignificant Activity List Item #5.

The VOC emission rate from the produced water storage tank is 16.8 pounds per year. As such, it is an exempt source under 20.2.72.202.B(5) NMAC.

The VOC emission rate from the methanol storage tank is 18.6 pounds per year. As such, it is an exempt source under 20.2.72.202.B(5) NMAC.

Due to the nature of operations, startup and shutdown emissions from the storage tanks are assumed to be accounted for in the calculations discussed above. Emissions due to maintenance are negligible as the units are not in operation during maintenance.

No changes are being made to the storage tanks or their operation. Emissions from the tanks are carried forward and not revised.

GRI-HAPCalc® 3.0
Engines Report

Facility ID: 32-8#2 CDP
 Operation Type: COMPRESSOR STATION
 Facility Name:
 User Name:
 Units of Measure: U.S. STANDARD

Notes:

*Note: Emissions less than 5.00E-09 tons (or tonnes) per year are considered insignificant and are treated as zero.
 These emissions are indicated on the report with a "0".
 Emissions between 5.00E-09 and 5.00E-05 tons (or tonnes) per year are represented on the report with "0.0000".*

Engine Unit

Unit Name: WAUK7044

Hours of Operation: 8,760 Yearly
 Rate Power: 1,500 hp
 Fuel Type: FIELD GAS
 Engine Type: 4-Stroke, Rich Burn
 Emission Factor Set: FIELD > EPA > LITERATURE
 Additional EF Set: -NONE-

Calculated Emissions (ton/yr)

<u>Chemical Name</u>	<u>Emissions</u>	<u>Emission Factor</u>	<u>Emission Factor Set</u>
<u>HAPs</u>			
Formaldehyde	0.6061	0.04188340 g/bhp-hr	GRI Field
Methanol	0.0965	0.00666670 g/bhp-hr	GRI Field
Benzene	0.3198	0.02210000 g/bhp-hr	GRI Field
Toluene	0.1027	0.00710000 g/bhp-hr	GRI Field
Xylenes(m,p,o)	0.0246	0.00170000 g/bhp-hr	GRI Field
Naphthalene	0.0040	0.00027540 g/bhp-hr	GRI Field
2-Methylnaphthalene	0.0007	0.00005050 g/bhp-hr	GRI Field
Acenaphthylene	0.0003	0.00001890 g/bhp-hr	GRI Field
Acenaphthene	0.0002	0.00001090 g/bhp-hr	GRI Field
Dibenzofuran	0.0001	0.00000570 g/bhp-hr	GRI Field
Fluorene	0.0002	0.00001720 g/bhp-hr	GRI Field
Anthracene	0.0001	0.00000400 g/bhp-hr	GRI Field
Phenanthrene	0.0005	0.00003210 g/bhp-hr	GRI Field
Fluoranthene	0.0002	0.00001260 g/bhp-hr	GRI Field
Pyrene	0.0001	0.00000860 g/bhp-hr	GRI Field
Benz(a)anthracene	0.0000	0.00000180 g/bhp-hr	GRI Field
Chrysene	0.0000	0.00000220 g/bhp-hr	GRI Field
Benzo(a)pyrene	0.0000	0.00000040 g/bhp-hr	GRI Field
Benzo(b)fluoranthene	0.0000	0.00000220 g/bhp-hr	GRI Field
Benzo(k)fluoranthene	0.0000	0.00000220 g/bhp-hr	GRI Field
Benzo(g,h,i)perylene	0.0000	0.00000070 g/bhp-hr	GRI Field
Indeno(1,2,3-c,d)pyrene	0.0000	0.00000050 g/bhp-hr	GRI Field
Dibenz(a,h)anthracene	0.0000	0.00000020 g/bhp-hr	GRI Field
Total	1.1561		

Criteria Pollutants

CO	131.4505	9.08349210 g/bhp-hr	GRI Field
NMEHC	3.8200	0.26396820 g/bhp-hr	GRI Field
NOx	108.9194	7.52654670 g/bhp-hr	GRI Field

Other Pollutants

Methane	14.1819	0.98000000 g/bhp-hr	GRI Field
Ethylene	1.8330	0.12666670 g/bhp-hr	GRI Field
Ethane	4.4379	0.30666670 g/bhp-hr	GRI Field
Propylene	0.3473	0.02400000 g/bhp-hr	GRI Field
Propane	1.3893	0.09600000 g/bhp-hr	GRI Field

Compressor Blowdown Emissions Calculations

Unit Number: **SSM**
 Description: Compressor & Piping Associated With Station

Throughput

12 # of units
200 events/yr/unit
6,760 scf/event
 16,224,000 scf/yr

Number of units
 Blowdowns per year per unit
 Gas loss per blowdown
 Annual gas loss

Harvest Four Corners, LLC
 Harvest Four Corners, LLC
 Harvest Four Corners, LLC
 # of units x events/yr/unit x scf/event

Emission Rates

Pollutants	Emission Factors, lb/scf	Uncontrolled, Emission Rate, tpy
VOC	1.125E-04	9.13E-01
2,2,4-Trimethylpentane	0.00E+00	0.00E+00
Benzene	0.00E+00	0.00E+00
Ethylbenzene	0.00E+00	0.00E+00
n-Hexane	0.00E+00	0.00E+00
Toluene	0.00E+00	0.00E+00
Xylene	0.00E+00	0.00E+00

Emission factors calculated from gas composition (see table below)

Uncontrolled Emission Rates (tpy) = scf/yr x lb/scf / 2,000 lb/ton

Gas Composition

Components	Mole Percents, %	Molecular Weights, lb/lb-mole	Emission Factors, lb/scf
Carbon dioxide	11.7445	44.01	1.362E-02
Hydrogen sulfide	0.0000	34.07	0.000E+00
Nitrogen	0.0229	28.01	1.691E-05
Methane	87.5702	16.04	3.702E-02
Ethane	0.5705	30.07	4.522E-04
Propane	0.0764	44.09	8.878E-05
Isobutane	0.0051	58.12	7.813E-06
n-Butane	0.0104	58.12	1.593E-05
Isopentane	0.0000	72.15	0.000E+00
n-Pentane	0.0000	72.15	0.000E+00
Cyclopentane	0.0000	70.14	0.000E+00
n-Hexane	0.0000	86.17	0.000E+00
Cyclohexane	0.0000	84.16	0.000E+00
Other hexanes	0.0000	86.18	0.000E+00
Heptanes	0.0000	100.20	0.000E+00
Methylcyclohexane	0.0000	98.19	0.000E+00
2,2,4-Trimethylpentane	0.0000	100.21	0.000E+00
Benzene	0.0000	78.11	0.000E+00
Toluene	0.0000	92.14	0.000E+00
Ethylbenzene	0.0000	106.17	0.000E+00
Xylenes	0.0000	106.17	0.000E+00
C8+ Heavies	0.0000	110.00	0.000E+00
Total	100.0000		
Total VOC			1.125E-04

Gas stream composition obtained from the 32-8 #2 CDP extended gas analysis dated 05/04/2021

Emission Factors (lb/scf) = (% / 100) x lb/lb-mole / 379.4 scf/lb-mole

Section 6.a

Green House Gas Emissions

(Submitting under 20.2.70, 20.2.72 20.2.74 NMAC)

Title V (20.2.70 NMAC), Minor NSR (20.2.72 NMAC), and PSD (20.2.74 NMAC) applicants must estimate and report greenhouse gas (GHG) emissions to verify the emission rates reported in the public notice, determine applicability to 40 CFR 60 Subparts, and to evaluate Prevention of Significant Deterioration (PSD) applicability. GHG emissions that are subject to air permit regulations consist of the sum of an aggregate group of these six greenhouse gases: carbon dioxide (CO₂), nitrous oxide (N₂O), methane (CH₄), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF₆).

Calculating GHG Emissions:

1. Calculate the ton per year (tpy) GHG mass emissions and GHG CO₂e emissions from your facility.
2. GHG mass emissions are the sum of the total annual tons of greenhouse gases without adjusting with the global warming potentials (GWPs). GHG CO₂e emissions are the sum of the mass emissions of each individual GHG multiplied by its GWP found in Table A-1 in 40 CFR 98 Mandatory Greenhouse Gas Reporting.
3. Emissions from routine or predictable start up, shut down, and maintenance must be included.
4. Report GHG mass and GHG CO₂e emissions in Table 2-P of this application. Emissions are reported in **short** tons per year and represent each emission unit's Potential to Emit (PTE).
5. All Title V major sources, PSD major sources, and all power plants, whether major or not, must calculate and report GHG mass and CO₂e emissions for each unit in Table 2-P.
6. For minor source facilities that are not power plants, are not Title V, and are not PSD there are three options for reporting GHGs in Table 2-P: 1) report GHGs for each individual piece of equipment; 2) report all GHGs from a group of unit types, for example report all combustion source GHGs as a single unit and all venting GHGs as a second separate unit; 3) or check the following ☐ By checking this box, the applicant acknowledges the total CO₂e emissions are less than 75,000 tons per year.

Sources for Calculating GHG Emissions:

- Manufacturer's Data
- AP-42 Compilation of Air Pollutant Emission Factors at <http://www.epa.gov/ttn/chief/ap42/index.html>
- EPA's Internet emission factor database WebFIRE at <http://cfpub.epa.gov/webfire/>
- 40 CFR 98 Mandatory Green House Gas Reporting except that tons should be reported in short tons rather than in metric tons for the purpose of PSD applicability.
- API Compendium of Greenhouse Gas Emissions Methodologies for the Oil and Natural Gas Industry. August 2009 or most recent version.
- Sources listed on EPA's NSR Resources for Estimating GHG Emissions at <http://www.epa.gov/nsr/clean-air-act-permitting-greenhouse-gases>:

Global Warming Potentials (GWP):

Applicants must use the Global Warming Potentials codified in Table A-1 of the most recent version of 40 CFR 98 Mandatory Greenhouse Gas Reporting. The GWP for a particular GHG is the ratio of heat trapped by one unit mass of the GHG to that of one unit mass of CO₂ over a specified time period.

"Greenhouse gas" for the purpose of air permit regulations is defined as the aggregate group of the following six gases: carbon dioxide, nitrous oxide, methane, hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride. **(20.2.70.7 NMAC, 20.2.74.7 NMAC)**. You may also find GHGs defined in 40 CFR 86.1818-12(a).

Metric to Short Ton Conversion:

Short tons for GHGs and other regulated pollutants are the standard unit of measure for PSD and title V permitting programs. 40 CFR 98 Mandatory Greenhouse Reporting requires metric tons.

1 metric ton = 1.10231 short tons (per Table A-2 to Subpart A of Part 98 – Units of Measure Conversions)

CO₂, CH₄, and N₂O exhaust emissions were calculated using emission factors from 40 Code of Federal Regulations (CFR), Part C, Tables C-1 & C-2 and the combustion source higher heating value (HHV) design heat rates.

The SSM and malfunction CO₂ and CH₄ emissions from blowdown events were calculated from the annual blowdown volumes and gas composition.

The reciprocating compressor CO₂ and CH₄ emissions were calculated using a combination of equations W-26 & W-36 (from Subpart W).

Dehydrator CO₂ and CH₄ emissions were calculated using GRI-GLYCalc.

CO₂ and CH₄ equipment leaks emissions were calculated using the TOC emission factors and gas stream composition.

Green House Gas Emissions Data and Calculations

Sources	Facility Total Emissions				
	CO ₂ , tpy	CH ₄ , tpy	N ₂ O, tpy	GHG, tpy	CO ₂ e, tpy
Engine Exhaust	73,060.95	1.38E+00	1.38E-01	73,062.46	73136.40
SSM Blowdowns	110.51	300.32	--	410.84	7618.64
Reciprocating Compressor Venting	251.04	683.25	--	934.29	17332.24
Dehydrators	137.97	9.59	--	147.56	377.67
Reboiler Exhaust	5,448.27	1.03E-01	1.03E-02	5,448.38	5453.89
Malfunctions	1210.67	3290.03	--	4500.70	83461.52
Total	80,219.40	4,284.67	1.48E-01	84,504.23	187,380.36

Engine & Turbine Exhaust Emissions

Unit Numbers	Description	Emission Factors			Emission Rates		
		CO ₂ , kg/MMBtu	CH ₄ , kg/MMBtu	N ₂ O, kg/MMBtu	CO ₂ , tpy	CH ₄ , tpy	N ₂ O, tpy
1	7042GL engine	53.06	1.00E-03	1.00E-04	6,010.45	0.11	0.01
2	7042GL engine	53.06	1.00E-03	1.00E-04	6,010.45	0.11	0.01
3	7044GSI engine	53.06	1.00E-03	1.00E-04	6,197.56	0.12	0.01
4	7044GSI engine	53.06	1.00E-03	1.00E-04	6,197.56	0.12	0.01
5	7044GSI engine	53.06	1.00E-03	1.00E-04	6,197.56	0.12	0.01
6	7044GSI engine	53.06	1.00E-03	1.00E-04	6,197.56	0.12	0.01
7	7042GL engine	53.06	1.00E-03	1.00E-04	6,010.45	0.11	0.01
8	7042GL engine	53.06	1.00E-03	1.00E-04	6,010.45	0.11	0.01
9	7044GSI engine	53.06	1.00E-03	1.00E-04	6,197.56	0.12	0.01
17	7042GL engine	53.06	1.00E-03	1.00E-04	6,010.45	0.11	0.01
18	7042GL engine	53.06	1.00E-03	1.00E-04	6,010.45	0.11	0.01
19	7042GL engine	53.06	1.00E-03	1.00E-04	6,010.45	0.11	0.01
	Total	53.06	1.00E-03	1.00E-04	73,060.95	1.38	0.14

The emissions factors are taken from 40 CFR 98, Subpart C, Tables C-1 & C-2

Emission Rates (tpy) = kg/MMBtu x 2.2 lb/kg x MMBtu/yr / 2,000 lb/ton

Unit Numbers	Description	Fuel Types	Operating Times, hr/yr	LHV Design Heat Rates, MMBtu/hr	HHV	
					Design Heat Rates, MMBtu/hr	Fuel Usages, MMBtu/yr
1	7042GL engine	Nat. Gas	8,760	10.58	11.76	102,979
2	7042GL engine	Nat. Gas	8,760	10.58	11.76	102,979
3	7044GSI engine	Nat. Gas	8,760	10.91	12.12	106,184
4	7044GSI engine	Nat. Gas	8,760	10.91	12.12	106,184
5	7044GSI engine	Nat. Gas	8,760	10.91	12.12	106,184
6	7044GSI engine	Nat. Gas	8,760	10.91	12.12	106,184
7	7042GL engine	Nat. Gas	8,760	10.58	11.76	102,979
8	7042GL engine	Nat. Gas	8,760	10.58	11.76	102,979
9	7044GSI engine	Nat. Gas	8,760	10.91	12.12	106,184
17	7042GL engine	Nat. Gas	8,760	10.58	11.76	102,979
18	7042GL engine	Nat. Gas	8,760	10.58	11.76	102,979
19	7042GL engine	Nat. Gas	8,760	10.58	11.76	102,979

The fuel types and operating times are provided by Harvest

The LHV design heat rates are taken from manufacturers data

HHV Design Heat Rates (MMBtu/hr) = LHV Design Heat Rates (MMBtu/hr) / 0.9 LHV/HHV

HHV Fuel Usages (MMBtu/yr) = HHV Design Heat Rates (MMBtu/hr) x hr/yr

Green House Gas Emissions Data and Calculations

SSM Blowdown Emissions

Unit Numbers	Description	Total Gas Losses, scf/yr	CO2 Emission Factors, lb/scf	CH4 Emission Factors, lb/scf	Emission Rates	
					CO2, tpy	CH4, tpy
SSM	SSM Blowdowns	16,224,000	0.0136	0.0370	110.51	300.32

The annual blowdown volumes are calculated from data provided by Harvest

The CO2 and CH4 emission factors are calculated from the facility extended gas analysis

Emission Rates (tpy) = scf/yr x lb/scf / 2,000 lb/ton

Reciprocating Compressor Venting Emissions

Unit Numbers	Description	Emission Rates	
		CO2, tpy	CH4, tpy
NA	Blowdown Valve Leakage	23.98	65.27
NA	Rod Packing Emissions	227.06	617.98
NA	Isolation Valve Leakage	0.00	0.00
	Total	251.04	683.25

Operating or standby mode - includes blowdown valve leakage through blowdown vent stack

Operating mode - includes rod packing emissions

Non-operating depressurized mode - includes isolation valve leakage through open blowdown vents (without blind flanges)

Rod packing gas emissions assume 4 cylinders per compressor

A combination of equations W-26 & W-36 (Subpart W) is used to calculate reciprocating compressor emissions

As the NMED requires CO2 & CH4 emissions rather than CO2e emissions, it is not necessary to include the global warming potential from equation W-36

CO2 Emission Rates (tpy) = # x scf/hr x hr/yr x (CO2 Mole Percent (%) / 100) x CO2 Density (kg/scf) x (2,204.6 lb/tonne / 2,000 lb/ton) / 1,000 kg/tonne

CH4 Emission Rates (tpy) = # x scf/hr x hr/yr x (CH4 Mole Percent (%) / 100) x CH4 Density (kg/scf) x (2,204.6 lb/tonne / 2,000 lb/ton) / 1,000 kg/tonne

Unit Numbers	Description	Number of Compressors #	Gas Emissions, scf/hr	Operating Times, hr/yr	CO2 Mole Percents, %	CH4 Mole Percents, %	CO2 Density, kg/scf	CH4 Density, kg/scf
NA	Blowdown Valve Leakage	12	33.5	8,760	11.74	87.57	0.0526	0.0192
NA	Rod Packing Emissions	12	317.2	8,760	11.74	87.57	0.0526	0.0192
NA	Isolation Valve Leakage	12	10.5	0	11.74	87.57	0.0526	0.0192

The number of compressors is provided by Harvest

Blowdown valve leakage (33.5 scf/hr) and rod packing emissions occur in operating mode

Blowdown valve leakage (10.5 scf/hr) occurs in standby pressurized mode

Emission factors are the three year rolling average (2012-2014) of all measurements in the Williams Field Services, LLC compressor fleet located at natural gas processing plants

The operating times (the average operating times for all station compressors combined) are provided by Harvest

The facility CO2 and CH4 contents are taken from the facility extended gas analysis

The CO2 & CH4 densities (kg/scf) are taken from Subpart W, Paragraph 98.233(v)

Dehydrator Emissions

Unit Numbers	Description	Emission Rates	
		CO2, tpy	CH4, tpy
10a	Dehydrator (20 MMSCFD)	23.13	1.61
11a	Dehydrator (20 MMSCFD)	23.13	1.61
12a	Dehydrator (20 MMSCFD)	23.13	1.61
13a	Dehydrator (12 MMSCFD)	11.17	0.78
14a	Dehydrator (12 MMSCFD)	11.17	0.78
15a	Dehydrator (20 MMSCFD)	23.13	1.61
16a	Dehydrator (20 MMSCFD)	23.13	1.61
	Total	137.97	9.59

The emission rates are taken from the GRI-GLYCalc output file

Green House Gas Emissions Data and Calculations

Reboiler Exhaust Emissions

Unit Numbers	Description	Emission Factors			Emission Rates		
		CO ₂ , kg/MMBtu	CH ₄ , kg/MMBtu	N ₂ O, kg/MMBtu	CO ₂ , tpy	CH ₄ , tpy	N ₂ O, tpy
10b	Reboiler (20 MMSCFD)	53.06	1.00E-03	1.00E-04	842.60	1.59E-02	1.59E-03
11b	Reboiler (20 MMSCFD)	53.06	1.00E-03	1.00E-04	842.60	1.59E-02	1.59E-03
12b	Reboiler (20 MMSCFD)	53.06	1.00E-03	1.00E-04	842.60	1.59E-02	1.59E-03
13b	Reboiler (12 MMSCFD)	53.06	1.00E-03	1.00E-04	617.63	1.16E-02	1.16E-03
14b	Reboiler (12 MMSCFD)	53.06	1.00E-03	1.00E-04	617.63	1.16E-02	1.16E-03
15b	Reboiler (20 MMSCFD)	53.06	1.00E-03	1.00E-04	842.60	1.59E-02	1.59E-03
16b	Reboiler (20 MMSCFD)	53.06	1.00E-03	1.00E-04	842.60	1.59E-02	1.59E-03
Total					5,448.27	1.03E-01	1.03E-02

The emissions factors are taken from 40 CFR 98, Subpart C, Tables C-1 & C-2

Emission Rates (tpy) = kg/MMBtu x 2.2 lb/kg x MMBtu/yr / 2,000 lb/ton

Unit Numbers	Description	Fuel Types	Operating Times hr/yr	LHV			HHV	
				Fuel Usages, scf/hr	Fuel Heat Contents, Btu/scf	Fuel Usages, MMBtu/hr	Fuel Usages, MMBtu/hr	Fuel Usages, MMBtu/yr
10b	Reboiler (20 MMSCFD)	Nat. Gas	8,760	1,648	900	1.48	1.65	14,436
11b	Reboiler (20 MMSCFD)	Nat. Gas	8,760	1,648	900	1.48	1.65	14,436
12b	Reboiler (20 MMSCFD)	Nat. Gas	8,760	1,648	900	1.48	1.65	14,436
13b	Reboiler (12 MMSCFD)	Nat. Gas	8,760	1,208	900	1.09	1.21	10,582
14b	Reboiler (12 MMSCFD)	Nat. Gas	8,760	1,208	900	1.09	1.21	10,582
15b	Reboiler (20 MMSCFD)	Nat. Gas	8,760	1,648	900	1.48	1.65	14,436
16b	Reboiler (20 MMSCFD)	Nat. Gas	8,760	1,648	900	1.48	1.65	14,436

The fuel types and operating times are provided by Harvest

The LHV fuel usages (scf/hr) are taken from manufacturer's data

The LHV fuel heat contents are estimated based on the value typically used by manufacturers

LHV Fuel Usages (MMBtu/hr) = LHV Fuel Usages (scf/hr) x Btu/scf / 1,000,000 Btu/MMBtu

HHV Fuel Usages (MMBtu/hr) = LHV Fuel Usages (MMBtu/hr) / 0.9 LHV/HHV

HHV Fuel Usages (MMBtu/yr) = HHV Fuel Usages (MMBtu/hr) x hr/yr

The conversion factors are taken from Subpart W, Paragraph 98.233(a)

The operating time is provided by Harvest (the default is the entire year)

The global warming potentials are taken from 40 CFR Part 98, Table A-1

Malfunction Emissions

Unit Number	Description	Total Component Weight, lb/lb-mole	VOC Component Weight, lb/lb-mole	CO ₂ Weight % of Total, %	CH ₄ Weight % of Total, %	Emission Rates		
						VOC, tpy	CO ₂ , tpy	CH ₄ , tpy
M1	Malfunctions	19.44	0.04	26.59	72.27	10.00	1,210.67	3,290.03

The total & VOC component weights and CO₂ & CH₄ weight % of totals are calculated from the facility extended gas analysis

The VOC emission rate is estimated (see calculations workbook)

CO₂ Emission Rate (tpy) = VOC Emission Rate (tpy) x (Total Component Weight (lb/lb-mole) / VOC Component Weight (lb-lb-mole)) x (CO₂ Weight % of Total (%) / 100)

CH₄ Emission Rate (tpy) = VOC Emission Rate (tpy) x (Total Component Weight (lb/lb-mole) / VOC Component Weight (lb-lb-mole)) x (CH₄ Weight % of Total (%) / 100)

Green House Gas Emissions Data and Calculations

Gas Stream Composition

Components	Mole Percents, %	Molecular Weights, lb/lb-mole	Component Weights, lb/lb-mole	Weight Percent of Total, %	Emission Factors, lb/scf
Carbon Dioxide	11.7445	44.01	5.17	26.5942	0.0136
Hydrogen Sulfide	0.0000	34.07	0.00	0.0000	0.0000
Nitrogen	0.0229	28.01	0.01	0.0330	0.0000
Methane	87.5702	16.04	14.05	72.2705	0.0370
Ethane	0.5705	30.07	0.17	0.8827	0.0005
Propane	0.0764	44.09	0.03	0.1733	0.0001
IsoButane	0.0051	58.12	0.00	0.0153	0.0000
Normal Butane	0.0104	58.12	0.01	0.0311	0.0000
IsoPentane	0.0000	72.15	0.00	0.0000	0.0000
Normal Pentane	0.0000	72.15	0.00	0.0000	0.0000
Cyclopentane	0.0000	70.14	0.00	0.0000	0.0000
n-Hexane	0.0000	86.17	0.00	0.0000	0.0000
Cyclohexane	0.0000	84.16	0.00	0.0000	0.0000
Other Hexanes	0.0000	86.18	0.00	0.0000	0.0000
Heptanes	0.0000	100.20	0.00	0.0000	0.0000
Methylcyclohexane	0.0000	98.19	0.00	0.0000	0.0000
2,2,4-Trimethylpentane	0.0000	100.21	0.00	0.0000	0.0000
Benzene	0.0000	78.11	0.00	0.0000	0.0000
Toluene	0.0000	92.14	0.00	0.0000	0.0000
Ethylbenzene	0.0000	106.17	0.00	0.0000	0.0000
Xylenes	0.0000	106.17	0.00	0.0000	0.0000
C8+ heavies	0.0000	110.00	0.00	0.0000	0.0000
Total	100.0000		19.44	100.0000	0.0512
VOC			0.04	--	0.0001

Gas stream composition obtained from the 32-8 #2 CDP extended gas analysis dated 05/04/2021

Component Weights (lb/lb-mole) = [Mole Percents (%) / 100] x Molecular Weights (lb/lb-mole)

Weight Percent of Total (%) = 100 x Component Weights (lb/lb-mole) / Total Component Weight (lb/lb-mole)

Emission Factors (lb/scf) = [Mole Percents (%) / 100] x Molecular Weights (lb/lb-mole) / 379.4 scf/lb-mole

Section 7

Information Used To Determine Emissions

Information Used to Determine Emissions shall include the following:

- ☒ If manufacturer data are used, include specifications for emissions units and control equipment, including control efficiencies specifications and sufficient engineering data for verification of control equipment operation, including design drawings, test reports, and design parameters that affect normal operation.
 - ☐ If test data are used, include a copy of the complete test report. If the test data are for an emissions unit other than the one being permitted, the emission units must be identical. Test data may not be used if any difference in operating conditions of the unit being permitted and the unit represented in the test report significantly effect emission rates.
 - ☒ If the most current copy of AP-42 is used, reference the section and date located at the bottom of the page. Include a copy of the page containing the emissions factors, and clearly mark the factors used in the calculations.
 - ☐ If an older version of AP-42 is used, include a complete copy of the section.
 - ☒ If an EPA document or other material is referenced, include a complete copy.
 - ☐ Fuel specifications sheet.
 - ☒ If computer models are used to estimate emissions, include an input summary (if available) and a detailed report, and a disk containing the input file(s) used to run the model. For tank-flashing emissions, include a discussion of the method used to estimate tank-flashing emissions, relative thresholds (i.e., permit or major source (NSPS, PSD or Title V)), accuracy of the model, the input and output from simulation models and software, all calculations, documentation of any assumptions used, descriptions of sampling methods and conditions, copies of any lab sample analysis.
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To save paper and to standardize the application format, delete this sentence, and begin your submittal for this attachment on this page.



VHP Series Five L7044GSI S5

With ESM2 and emPact Emission Control System

1,900 BHP (1,416 kWb) @ 1,200 RPM

Technical Data

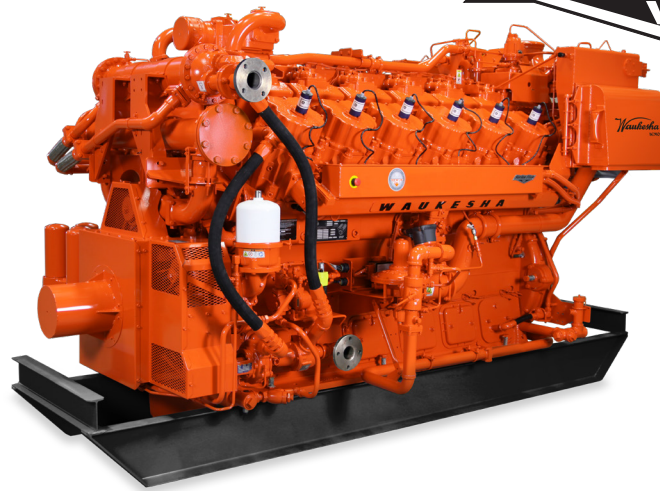
Cylinders	V12
Piston displacement	7,040 cu. in. (115 L)
Compression ratio	9.7:1
Bore & stroke	9.375" x 8.5" (238 x 216mm)
Jacket water system capacity	100 gal. (379 L)
Lube oil capacity	190 gal. (719 L)
Starting system	125 - 150 psi air/gas 24V electric

Dimensions l x w x h inch (mm)

147 (3,734) x 85 (2,159) x 97.83 (2,485)

Weights lb (kg)

24,250 (11,000)



INNIO's Waukesha* VHP* Series Five rich-burn engines combine the most advanced technology available with the history and experience of the VHP platform, resulting in an engine with 13% more power, better fuel flexibility, 10% lower fuel consumption, up to 20% lower lifecycle costs, and over 30% longer service intervals.

Although Series Five engines are capable of higher power levels than previous versions, the stresses on the components have not increased. This is made possible by enhanced rich-burn combustion through the Miller Cycle, an improved cylinder head design that reduces temperatures in key regions, and an optimized piston design.

Used previously on the P9394GSI engine, the Miller Cycle moves work from the piston to the turbocharger, reducing combustion and exhaust temperatures and making the L7044GSI S5 the most fuel efficient VHP engine ever.

The improved cylinder head design reduces key internal temperatures by up to 40%, increasing reliability and extending the life of the head.

Performance Data

Intercooler Water Temperature 130°F (54°C)

		1200 RPM	1000 RPM
	Power bhp (kWb)	1,900 (1,416)	1,583 (1,181)
	BSFC (LHV) Btu/bhp-hr (kJ/kWh)	7,63 (9,993)	6,913 (9,780)
	Fuel Consumption Btu/hr x 1000 (kW)	13,385 (3,923)	10,962 (3,213)
Engine-Out Emissions	NOx g/bhp-hr (mg/Nm ³ @ 5% O ₂)	10.9 (4,680)	10.8 (4,748)
	CO g/bhp-hr (mg/Nm ³ @ 5% O ₂)	9.2 (3,950)	7.6 (3,340)
	NMHC g/bhp-hr (mg/Nm ³ @ 5% O ₂)	0.11 (48)	0.11 (48)
	THC g/bhp-hr (mg/Nm ³ @ 5% O ₂)	0.4 (172)	0.5 (220)
	Formaldehyde g/bhp-hr (mg/nm ³ @ 5% O ₂)	0.05 (19)	
Heat Balance	Heat to Jacket Water Btu/hr x 1000 (kW)	3,512 (1,029)	2,947 (864)
	Heat to Lube Oil Btu/hr x 1000 (kW)	518 (152)	395 (116)
	Heat to Intercooler Btu/hr x 1000 (kW)	517 (152)	356 (104)
	Heat to Radiation Btu/hr x 1000 (kW)	731 (214)	636 (186)
	Total Exhaust Heat Btu/hr x 1000 (kW)	3,612 (1,059)	2,860 (838)
Intake/Exhaust System	Induction Air Flow scfm (Nm ³ /hr)	2,391 (3,601)	1,958 (2,949)
	Exhaust Flow lb/hr (kg/hr)	11,622 (5,272)	9,521 (4,319)
	Exhaust Temperature °F (°C)	1,108 (598)	1,080 (582)

All data according to full load and subject to technical development and modification.

Data based on commercial quality natural gas, 100 °F ambient temperature and 850 ft elevation. Contact your local Waukesha representative for site specific technical data. Fuel consumption and BSFC data based on fuel LHV with a tolerance per ISO 3046/1 of -0/+5%. Heat balance and intake/exhaust data is nominal.

Consult your local Waukesha representative for system application assistance. The manufacturer reserves the right to change or modify without notice, the design or equipment specifications as herein set forth without incurring any obligation either with respect to equipment previously sold or in the process of construction except where otherwise specifically guaranteed by the manufacturer.

INNIO* is a leading solutions provider of gas engines, power equipment, a digital platform and related services for power generation and gas compression at or near the point of use. With our Jenbacher* and Waukesha* product brands, INNIO pushes beyond the possible and looks boldly toward tomorrow. Our diverse portfolio of reliable, economical and sustainable industrial gas engines generates 200 kW to 10 MW of power for numerous industries globally. We can provide life cycle support to the more than 48,000 delivered gas engines worldwide. And, backed by our service network in more than 100 countries, INNIO connects with you locally for rapid response to your service needs. Headquartered in Jenbach, Austria, the business also has primary operations in Welland, Ontario, Canada, and Waukesha, Wisconsin, US.

IWK-119054-EN

*Indicates a trademark

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Find your local support online:
www.innio.com/en/company/providers



Jason Martindale
Direct: 505.592.1318
jmartindale@emittechnologies.com

PREPARED FOR: Oakley Hayes
HARVEST MIDSTREAM

PDS #: 020222-1001-1
EXPIRES: 5/23/2022

APPLICATION INFORMATION

Driver: Engine
Make: Waukesha
Model: L7044 GSI S5
Horsepower: 1598
RPM: 1200
Compression Ratio: 9.7:1
Exhaust Flow Rate: 6810 ACFM
Exhaust Temperature: 1058* F
Reference: Spec Sheet
Fuel: Natural Gas
Annual Operating Hours: 8760

PERFORMANCE DETAIL

HOUSING REFERENCE ERH-4200-1616F-6CE0-241

CATALYST ELEMENTS

Model: RT-2415-T
Catalyst Type: NSCR 3-Way
Substrate Type: Brazed
Element Size: Rectangle, 24"x15"x3.5"
Element Quantity: (3) Elements required with Low NOx AFR Setting

Minimum Pre Cat Exhaust

Temperature: 900* F

****POST CATALYST EMISSIONS ARE ONLY GUARANTEED FOR CATALYST ELEMENTS SUPPLIED
BY EMIT**

UNCONTROLLED EMISSIONS DATA

	<u>g/bhp-hr</u>
NOx:	11.520
CO:	8.900
THC:	0.550
NMHC:	0.015
NMNEHC:	0.011
HCHO:	0.050
Oxygen:	0.3%

POST CATALYST EMISSIONS DATA

	<u>g/bhp-hr</u>
NOx:	<0.8
CO:	<1.5
VOC:	<0.6



WARRANTY

EMIT Technologies, Inc. warrants that the goods supplied will be free from defects in workmanship by EMIT Technologies, Inc. for a period of one (1) year from date of shipment. EMIT Technologies, Inc. will not be responsible for any defects which result from improper use, neglect, failure to properly maintain or which are attributable to defects, errors or omissions in any drawings, specifications, plans or descriptions, whether written or oral, supplied to EMIT Technologies, Inc. by Buyer.

Catalyst performance using an EMIT Air/Fuel ratio controller is dependent upon properly defined set-points, variable with engine and fuel gas composition. Air/fuel ratio controller performance is guaranteed, but not limited, to fuel gas with an HHV content of 1400 BTU/SCF.

Catalyst performance will be guaranteed for a period of 2 years from installation, or 17,000 operating hours, whichever comes first. The catalyst shall be operated with an automatic air/fuel ratio controller. The performance guarantee shall not cover the effects of excessive ash masking due to operation at low load, improper engine maintenance, or inappropriate lubrication oil. The performance guarantee shall not cover the effects of continuous engine misfires (cylinder or ignition) exposing the catalyst to excessive exothermic reaction temperatures.

Unless otherwise stated the exhaust temperature operating range at the converter inlet is 600°F minimum for oxidation catalyst and 750°F for NSCR catalyst and 1250°F maximum.

If a high temperature shut down switch is not installed, thermal deactivation of catalyst at temperatures above 1300 °F is not covered.

The catalyst conversion efficiencies (% reduction) will be guaranteed for engine loads of 50 to 100 percent.

Engine lubrication oil shall contain less than 0.6% ash (by weight) with a maximum allowable specific oil consumption of 0.01 gal/bhp-hr. The maximum ash loading on the catalyst shall be limited to 350 g/m³. Phosphorous and zinc additives are limited to 0.03% (by weight).

The catalyst must not be exposed to the following known poisoning agents, including: iron, nickel, sodium, chromium, arsenic, zinc, lead, phosphorous, silicon, potassium, magnesium, copper, tin, and mercury. Total poison concentrations in the gas are limited to 0.3 ppm.

Shipment - Promised shipping dates are approximate and are not guaranteed and are from the point of manufacture. EMIT Technologies, Inc. will not be liable for any loss, damage or delay in manufacture or delivery resulting from any cause beyond its control including, but not limited to a period equal to the time lost by reason of that delay. All products will be crated as per best practice to prevent any damage during shipment. Unless otherwise specified, Buyer will pay for any special packing and shipping requirements. Acceptance of goods by common carrier constitutes delivery to Buyer. EMIT Technologies, Inc. shall not be responsible for goods damaged or lost in transit.

PAYMENT TERMS AND ADVANCE PAYMENT REQUIREMENT

Terms: Credit is extended to purchaser for net 30 time period. If payment is not received in the net 30 timeframe, interest on the unpaid balance will accrue at a rate of 1.5% per month from the invoice date.

Advance Payment Requirement: Proposals with a project value of \$100,000 or greater, and 60 days or greater time to completion, will require an advance payment of 30% of the total value. The advance payment will be invoiced to the customer upon receipt of the customer's purchase order. Advance payment is due 30 days after the date of the invoice. If payment is not received in the net 30 timeframe, interest on the unpaid balance will accrue at the rate of 1.5% per month from the invoice date. Failure to pay this invoice may delay completion of the project outlined in this proposal.

Order Cancellation Terms: Upon cancellation of an order once submittal of a Purchase Order has occurred, the customer will pay a 25% restocking fee for Catalyst Housings, Catalyst Elements, and Air/Fuel Ratio Controllers; 50% restocking fee for Cooler Top Solutions, Exhaust System Accessories, and other Custom Built Products; 100% of all associated shipping costs incurred by EMIT; 100% of all project expenses incurred by EMIT for Field Services.

TABLE 1.4-2. EMISSION FACTORS FOR CRITERIA POLLUTANTS AND GREENHOUSE GASES FROM NATURAL GAS COMBUSTION^a

Pollutant	Emission Factor (lb/10 ⁶ scf)	Emission Factor Rating
CO ₂ ^b	120,000	A
Lead	0.0005	D
N ₂ O (Uncontrolled)	2.2	E
N ₂ O (Controlled-low-NO _x burner)	0.64	E
PM (Total) ^c	7.6	D
PM (Condensable) ^c	5.7	D
PM (Filterable) ^c	1.9	B
SO ₂ ^d	0.6	A
TOC	11	B
Methane	2.3	B
VOC	5.5	C

^a Reference 11. Units are in pounds of pollutant per million standard cubic feet of natural gas fired. Data are for all natural gas combustion sources. To convert from lb/10⁶ scf to kg/10⁶ m³, multiply by 16. To convert from lb/10⁶ scf to lb/MMBtu, divide by 1,020. The emission factors in this table may be converted to other natural gas heating values by multiplying the given emission factor by the ratio of the specified heating value to this average heating value. TOC = Total Organic Compounds.

VOC = Volatile Organic Compounds.

^b Based on approximately 100% conversion of fuel carbon to CO₂. CO₂[lb/10⁶ scf] = (3.67) (CON) (C)(D), where CON = fractional conversion of fuel carbon to CO₂, C = carbon content of fuel by weight (0.76), and D = density of fuel, 4.2x10⁴ lb/10⁶ scf.

^c All PM (total, condensable, and filterable) is assumed to be less than 1.0 micrometer in diameter. Therefore, the PM emission factors presented here may be used to estimate PM₁₀, PM_{2.5} or PM₁ emissions. Total PM is the sum of the filterable PM and condensable PM. Condensable PM is the particulate matter collected using EPA Method 202 (or equivalent). Filterable PM is the particulate matter collected on, or prior to, the filter of an EPA Method 5 (or equivalent) sampling train.

^d Based on 100% conversion of fuel sulfur to SO₂.

Assumes sulfur content is natural gas of 2,000 grains/10⁶ scf. The SO₂ emission factor in this table can be converted to other natural gas sulfur contents by multiplying the SO₂ emission factor by the ratio of the site-specific sulfur content (grains/10⁶ scf) to 2,000 grains/10⁶ scf.

Table 3.2-3. UNCONTROLLED EMISSION FACTORS FOR 4-STROKE RICH-BURN
 ENGINES^a
 (SCC 2-02-002-53)

Pollutant	Emission Factor (lb/MMBtu) ^b (fuel input)	Emission Factor Rating
Criteria Pollutants and Greenhouse Gases		
NO _x ^c 90 - 105% Load	2.21 E+00	A
NO _x ^c <90% Load	2.27 E+00	C
CO ^c 90 - 105% Load	3.72 E+00	A
CO ^c <90% Load	3.51 E+00	C
CO ₂ ^d	1.10 E+02	A
SO ₂ ^e	5.88 E-04	A
TOC ^f	3.58 E-01	C
Methane ^g	2.30 E-01	C
VOC ^h	2.96 E-02	C
PM10 (filterable) ^{i,j}	9.50 E-03	E
PM2.5 (filterable) ^j	9.50 E-03	E
PM Condensable ^k	9.91 E-03	E
Trace Organic Compounds		
1,1,2,2-Tetrachloroethane ^l	2.53 E-05	C
1,1,2-Trichloroethane ^l	<1.53 E-05	E
1,1-Dichloroethane	<1.13 E-05	E
1,2-Dichloroethane	<1.13 E-05	E
1,2-Dichloropropane	<1.30 E-05	E
1,3-Butadiene ^l	6.63 E-04	D
1,3-Dichloropropene ^l	<1.27 E-05	E
Acetaldehyde ^{l,m}	2.79 E-03	C
Acrolein ^{l,m}	2.63 E-03	C
Benzene ^l	1.58 E-03	B
Butyr/isobutyraldehyde	4.86 E-05	D
Carbon Tetrachloride ^l	<1.77 E-05	E



2030 Afton Place
Farmington, NM 87401
(505) 325-6622

Analysis No: HM2021044
Cust No: 33700-10355

Well/Lease Information

Customer Name: HARVEST MIDSTREAM
Well Name: 32-8 #2 CDP
County/State:
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.:

Source: Dehy Inlet
Well Flowing:
Pressure: 910 PSIG
Flow Temp: 85 DEG. F
Ambient Temp: 74 DEG. F
Flow Rate: 11 MCF/D
Sample Method: Purge & Fill
Sample Date: 05/04/2021
Sample Time: 2.00 PM
Sampled By: Daniel Lovato
Sampled by (CO): Harvest Mid

Heat Trace:

Remarks: Calculated Molecular Weight = 19.4383

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.0229	0.0232	0.0030	0.00	0.0002
CO2	11.7445	11.8728	2.0090	0.00	0.1785
Methane	87.5702	88.5269	14.8780	884.46	0.4851
Ethane	0.5705	0.5767	0.1530	10.10	0.0059
Propane	0.0764	0.0772	0.0210	1.92	0.0012
Iso-Butane	0.0051	0.0052	0.0020	0.17	0.0001
N-Butane	0.0104	0.0105	0.0030	0.34	0.0002
Neopentane 2,2 dmc3	0.0000	0.0000	0.0000	0.00	0.0000
I-Pentane	0.0000	0.0000	0.0000	0.00	0.0000
N-Pentane	0.0000	0.0000	0.0000	0.00	0.0000
Neohexane	0.0000	N/R	0.0000	0.00	0.0000
2-3-Dimethylbutane	0.0000	N/R	0.0000	0.00	0.0000
Cyclopentane	0.0000	N/R	0.0000	0.00	0.0000
2-Methylpentane	0.0000	N/R	0.0000	0.00	0.0000
3-Methylpentane	0.0000	N/R	0.0000	0.00	0.0000
C6	0.0000	0.0000	0.0000	0.00	0.0000
Methylcyclopentane	0.0000	N/R	0.0000	0.00	0.0000
Benzene	0.0000	N/R	0.0000	0.00	0.0000
Cyclohexane	0.0000	N/R	0.0000	0.00	0.0000
2-Methylhexane	0.0000	N/R	0.0000	0.00	0.0000
3-Methylhexane	0.0000	N/R	0.0000	0.00	0.0000
2-2-4-Trimethylpentane	0.0000	N/R	0.0000	0.00	0.0000
i-heptanes	0.0000	N/R	0.0000	0.00	0.0000
Heptane	0.0000	N/R	0.0000	0.00	0.0000

Methylcyclohexane	0.0000	N/R	0.0000	0.00	0.0000
Toluene	0.0000	N/R	0.0000	0.00	0.0000
2-Methylheptane	0.0000	N/R	0.0000	0.00	0.0000
4-Methylheptane	0.0000	N/R	0.0000	0.00	0.0000
i-Octanes	0.0000	N/R	0.0000	0.00	0.0000
Octane	0.0000	N/R	0.0000	0.00	0.0000
Ethylbenzene	0.0000	N/R	0.0000	0.00	0.0000
m, p Xylene	0.0000	N/R	0.0000	0.00	0.0000
o Xylene (& 2,2,4 tmc7)	0.0000	N/R	0.0000	0.00	0.0000
i-C9	0.0000	N/R	0.0000	0.00	0.0000
C9	0.0000	N/R	0.0000	0.00	0.0000
i-C10	0.0000	N/R	0.0000	0.00	0.0000
C10	0.0000	N/R	0.0000	0.00	0.0000
i-C11	0.0000	N/R	0.0000	0.00	0.0000
C11	0.0000	N/R	0.0000	0.00	0.0000
C12P	0.0000	N/R	0.0000	0.00	0.0000
Total	100.00	101.093	17.069	896.98	0.6711

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0024
BTU/CU.FT IDEAL:	899.1
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	901.1
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	885.4
DRY BTU @ 15.025:	919.1
REAL SPECIFIC GRAVITY:	0.6724

CYLINDER #:	202
CYLINDER PRESSURE:	910 PSIG
ANALYSIS DATE:	05/06/2021
ANALYSIS TIME:	02:31:32 AM
ANALYSIS RUN BY:	PATRICIA KING

GPM, BTU, and SPG calculations as shown above are based on current GPA constants.

GPA Standard: GPA 2286-14

GC: SRI Instruments 8610 Last Cal/Verify: 05/11/2021

GC Method: C12+BTEX Gas

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Section 8

Map(s)

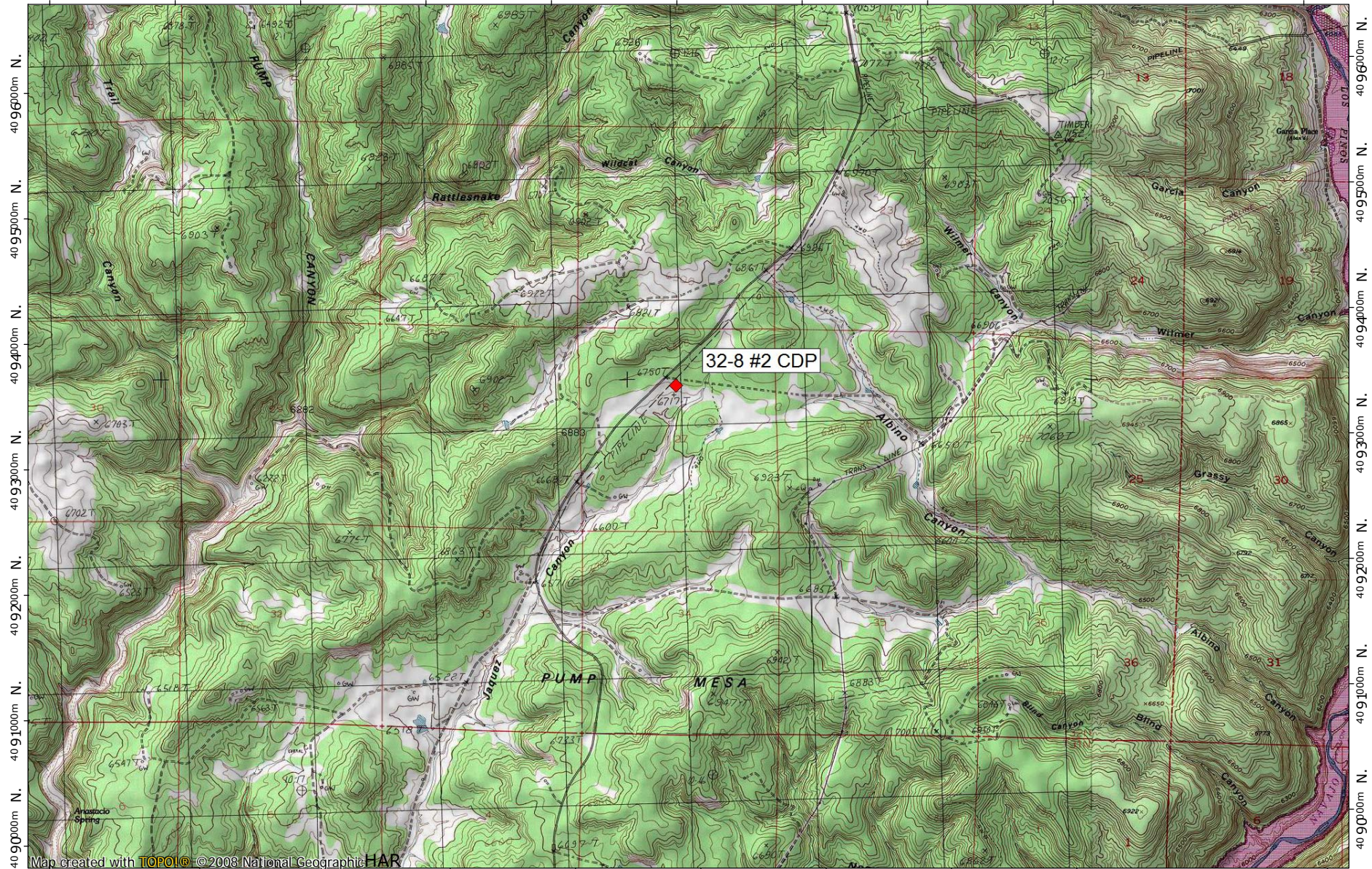
A map such as a 7.5 minute topographic quadrangle showing the exact location of the source. The map shall also include the following:

The UTM or Longitudinal coordinate system on both axes	An indicator showing which direction is north
A minimum radius around the plant of 0.8km (0.5 miles)	Access and haul roads
Topographic features of the area	Facility property boundaries
The name of the map	The area which will be restricted to public access
A graphical scale	

A topographic map of the area around the facility is provided in this section. Please see the following page.

HARVEST FOUR CORNERS, LLC - 32-8 #2 CENTRAL DELIVERY POINT (CDP) - San Juan Co., NM T 32 N, R 08 W, Sec. 27

258000m E. 259000m E. 260000m E. 261000m E. 262000m E. 263000m E. 264000m E. 265000m E. 266000m E. 268000m E. WGS84 Zone 13S



Map created with **TOPO!** ©2008 National Geographic HAR

0.0 0.5 1.0 miles
0.0 0.5 1.0 1.5 km

TN MN
9½°
05/19/16

Section 9

Proof of Public Notice

(for NSR applications submitting under 20.2.72 or 20.2.74 NMAC)

(This proof is required by: 20.2.72.203.A.14 NMAC “Documentary Proof of applicant’s public notice”)

☒ I have read the AQB “Guidelines for Public Notification for Air Quality Permit Applications”

This document provides detailed instructions about public notice requirements for various permitting actions. It also provides public notice examples and certification forms. Material mistakes in the public notice will require a re-notice before issuance of the permit.

Unless otherwise allowed elsewhere in this document, the following items document proof of the applicant’s Public Notification. Please include this page in your proof of public notice submittal with checkmarks indicating which documents are being submitted with the application.

New Permit and Significant Permit Revision public notices must include all items in this list.

Technical Revision public notices require only items 1, 5, 9, and 10.

Per the Guidelines for Public Notification document mentioned above, include:

1. ☒ A copy of the certified letter receipts with post marks (20.2.72.203.B NMAC)
 2. ☒ A list of the places where the public notice has been posted in at least four publicly accessible and conspicuous places, including the proposed or existing facility entrance. (e.g: post office, library, grocery, etc.)
 3. ☒ A copy of the property tax record (20.2.72.203.B NMAC).
 4. ☒ A sample of the letters sent to the owners of record.
 5. ☒ A sample of the letters sent to counties, municipalities, and Indian tribes.
 6. ☒ A sample of the public notice posted and a verification of the local postings.
 7. ☒ A table of the noticed citizens, counties, municipalities and tribes and to whom the notices were sent in each group.
 8. ☒ A copy of the public service announcement (PSA) sent to a local radio station and documentary proof of submittal.
 9. ☒ A copy of the classified or legal ad including the page header (date and newspaper title) or its affidavit of publication stating the ad date, and a copy of the ad. When appropriate, this ad shall be printed in both English and Spanish.
 10. ☒ A copy of the display ad including the page header (date and newspaper title) or its affidavit of publication stating the ad date, and a copy of the ad. When appropriate, this ad shall be printed in both English and Spanish.
 11. ☒ A map with a graphic scale showing the facility boundary and the surrounding area in which owners of record were notified by mail. This is necessary for verification that the correct facility boundary was used in determining distance for notifying land owners of record.
-

San Juan County is classified as an “A” county, according to the New Mexico Department of Finance and Administration. As such, according to 20.2.72.203.B(1)(a) NMAC, public notice must be provided by certified mail to the owners of record within one hundred (100) feet of the property on which the facility is located.

San Juan County is classified as an “A” county, according to the New Mexico Department of Finance and Administration. As such, according to 20.2.72.203.B(1)(a) NMAC, public notice must be provided by certified mail to the owners of record within one hundred (100) feet of the property on which the facility is located.

Table 1 identifies the landowners within 100 feet of the property on which the 32-8 #2 CDP Compressor Station is located, that received public notice letters of the proposed permit modification. Landowner information was obtained from the County Assessor’s Office Geographical Information Systems (GIS) website at <https://webmaps.sjcounty.net/portal/apps/webappviewer/index.html?id=e970ec2c29e74b37b8440dfe364c3dbf>. Please see the attached maps and property owner listing.

Table 1

Landowner(s) Receiving Public Notice Letters Within 100 Feet of the Property on Which the 32-8 #2 CDP Compressor Station is Located	
Roger and Jennifer Sefzik	Thomas L. and Linda L. Jenkins
NM Dept. of Transportation, Region 5	Bureau of Land Management (BLM)

20.2.72.203.B(2) NMAC requires public notice be provided by certified mail to all municipalities and counties in which the facility is located, and to municipalities, counties and Indian Tribes within a 10 mile radius of the property on which the facility is located.

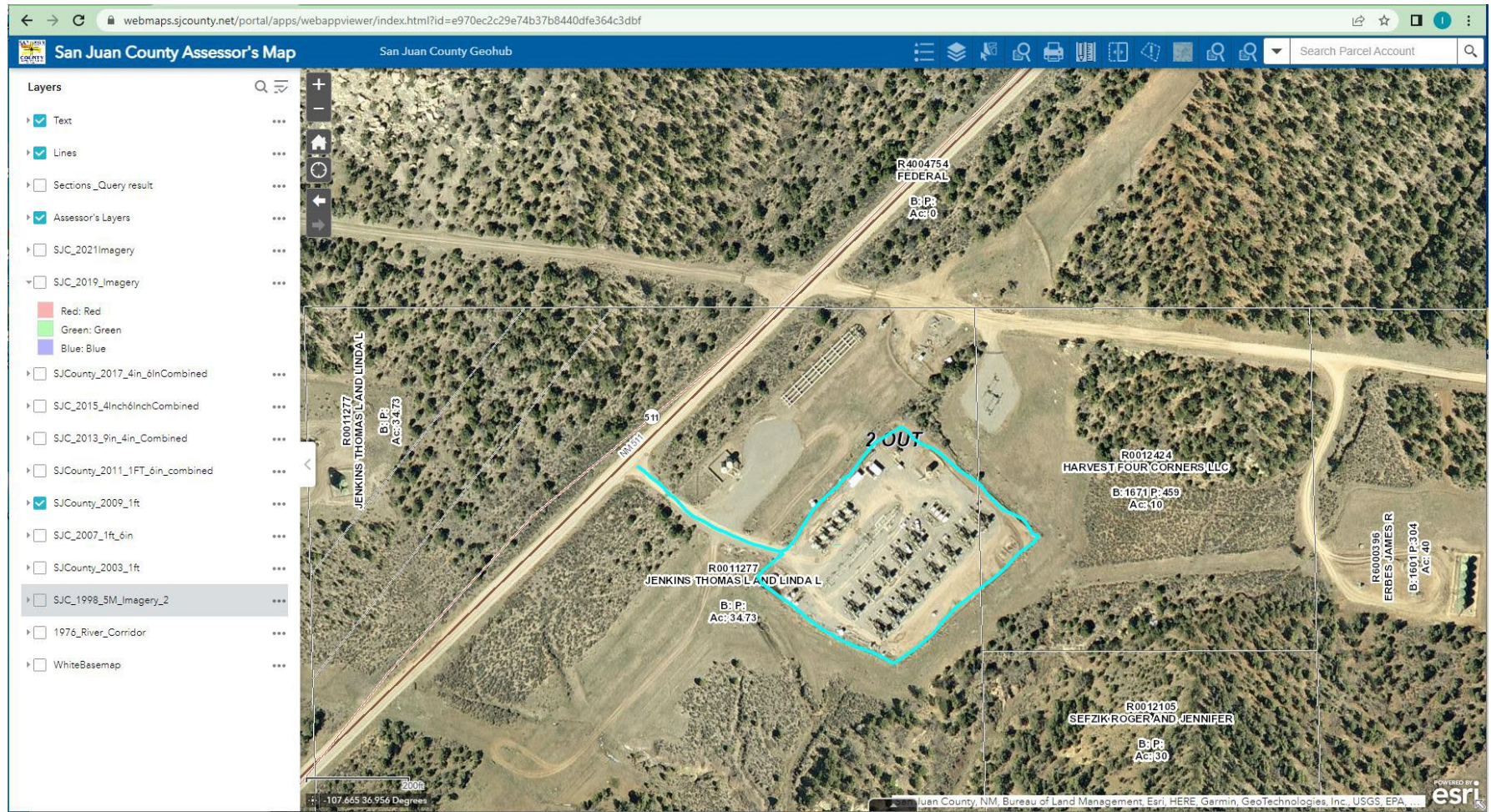
Table 2 identifies the counties, municipalities and tribes located within ten miles of the 32-8 #2 CDP Compressor Station that received public notice letters.

Table 2

Municipalities, Counties and Tribes Within 10 Miles of the 32-8 #2 CDP Compressor Station Receiving Public Notice Letters	
Municipalities	Addressed to
None	- -
Counties	Addressed to
San Juan County	County Clerk
Rio Arriba County	County Clerk
La Plata County	County Clerk
Tribes	Addressed to
Southern Ute Tribe	Environmental Programs Division

Landscape aerial of fenceline/landowners (close in

32-8 #2 CDP Compressor Station location in San Juan County, T-32N, R-08W, Section 27. The facility fenceline is outlined in blue, as is the driveway from the highway to the gate. The San Juan County online GIS distance measurement tool indicates that the driveway is 343 feet long. Public notice is provided to parcel owners within 100 feet of the facility fenceline.



landscape aerial of location – zoomed out

32-8 #2 CDP Compressor Station location in San Juan County, T-32N, R-08W, Section 27.



32-8 #2 CDP - Neighboring Parcels within 100 feet

Coordinate Position

Geographic: 36° 57' 24.9" N, 107° 39' 51.3" W

Parcels

Account No: R0011277

Parcel Address: NM 511, NAVAJO_DAM, 87419

Owner: JENKINS THOMAS L AND LINDA L

Address: 1376 E QUINN RD

City, State, Zip: PEARCE, AZ 85625

Acres: 34.73

Parcel Number: 2045187312312

Legal Description: SE NW 273208 BK.854 PG.529 LESS 4AC TO HWY IN BK.638 PG.310

Coordinate Position

Geographic: 36° 57' 21.9" N, 107° 39' 41.5" W

Parcels

Account No: R0012105

Parcel Address: NM 511, NAVAJO_DAM, 87419

Owner: SEFZIK ROGER AND JENNIFER

Address: P.O. Box 433

City, State, Zip: CUSTER, WA 98240

Acres: 30

Parcel Number: 2045187229296

Legal Description: SW SW NE 273208 W1/2NW SE 273208 30 ACRES B.1311 P.84

ShapeArea: 1287845.92680022

7021 2720 0000 5123 8585

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only

For delivery information, visit our website at www.usps.com®.
Farmington, NM 87402

Certified Mail Fee \$3.75
\$
Extra Services & Fees (check box, add fee as appropriate)
☐ Return Receipt (hardcopy) \$1.85
☒ Return Receipt (electronic) \$0.00
☐ Certified Mail Restricted Delivery \$0.00
☐ Adult Signature Required \$0.00
☐ Adult Signature Restricted Delivery \$0.00

Postage \$0.58
\$
Total Postage and Fees \$6.18

0030
12
Postmark Here
05/11/2022

Sent To Bureau of Land Management
Street and Apt. No., or PO Box No.
6251 College Blvd., Suite A
City, State, ZIP+4®
Farmington, NM 87402

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7021 2720 0000 5123 8615

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Aztec, NM 87410

Certified Mail Fee \$3.75
\$
Extra Services & Fees (check box, add fee as appropriate)
☐ Return Receipt (hardcopy) \$1.85
☒ Return Receipt (electronic) \$0.00
☐ Certified Mail Restricted Delivery \$0.00
☐ Adult Signature Required \$0.00
☐ Adult Signature Restricted Delivery \$0.00

Postage \$0.58
\$
Total Postage and Fees \$6.18

0030
12
Postmark Here
05/11/2022

Sent To San Juan County Clerk
Street and Apt. No., or PO Box No.
P.O. Box 550
City, State, ZIP+4®
Aztec, NM 87410

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7021 2720 0000 5123 8608

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Tierra Amarilla, NM 87575

Certified Mail Fee \$3.75
\$
Extra Services & Fees (check box, add fee as appropriate)
☐ Return Receipt (hardcopy) \$1.85
☒ Return Receipt (electronic) \$0.00
☐ Certified Mail Restricted Delivery \$0.00
☐ Adult Signature Required \$0.00
☐ Adult Signature Restricted Delivery \$0.00

Postage \$0.58
\$
Total Postage and Fees \$6.18

0030
12
Postmark Here
05/11/2022

Sent To Rio Arriba County Clerk
Street and Apt. No., or PO Box No.
P.O. Box 158
City, State, ZIP+4®
Tierra Amarilla, NM 87575

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7021 2720 0000 5123 8554

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Ignacio, CO 81137

Certified Mail Fee \$3.75
\$
Extra Services & Fees (check box, add fee as appropriate)
☐ Return Receipt (hardcopy) \$1.85
☒ Return Receipt (electronic) \$0.00
☐ Certified Mail Restricted Delivery \$0.00
☐ Adult Signature Required \$0.00
☐ Adult Signature Restricted Delivery \$0.00

Postage \$0.58
\$
Total Postage and Fees \$6.18

0030
12
Postmark Here
05/11/2022

Sent To Environmental Programs Div. So. UTETribe
Street and Apt. No., or PO Box No.
P.O. Box 737
City, State, ZIP+4®
Ignacio, CO 81137

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7021 2720 0000 5123 8547

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Santa Fe, NM 87502

Certified Mail Fee \$3.75
\$
Extra Services & Fees (check box, add fee as appropriate)
☐ Return Receipt (hardcopy) \$1.85
☒ Return Receipt (electronic) \$0.00
☐ Certified Mail Restricted Delivery \$0.00
☐ Adult Signature Required \$0.00
☐ Adult Signature Restricted Delivery \$0.00

Postage \$0.58
\$
Total Postage and Fees \$6.18

0030
12
Postmark Here
05/11/2022

Sent To Public Information Officer, NMDOT Reg. 5
Street and Apt. No., or PO Box No.
P.O. Box 4127
City, State, ZIP+4®
Santa Fe, NM 87502

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7021 2720 0000 5123 8561

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Durango, CO 81303

Certified Mail Fee \$3.75
\$
Extra Services & Fees (check box, add fee as appropriate)
☐ Return Receipt (hardcopy) \$1.85
☒ Return Receipt (electronic) \$0.00
☐ Certified Mail Restricted Delivery \$0.00
☐ Adult Signature Required \$0.00
☐ Adult Signature Restricted Delivery \$0.00

Postage \$0.58
\$
Total Postage and Fees \$6.18

0030
12
Postmark Here
05/11/2022

Sent To County Clerk, La Plata County
Street and Apt. No., or PO Box No.
619 Turner Drive, Suite C
City, State, ZIP+4®
Durango, CO 81303

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7021 2720 0000 5123 8578

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only	
For delivery information, visit our website at www.usps.com ®.	
Pearce, AZ 85625	
OFFICIAL USE	
Certified Mail Fee	\$3.75
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$1.85
<input checked="" type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00
Postage	\$0.58
Total Postage and Fees	\$6.18
Sent To Thomas and Linda Jenkins	
Street and Apt. No., or PO Box No. 1376 E. Quinn Road	
City, State, ZIP+4® Pearce, AZ 85625	
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	



7021 2720 0000 5123 8592

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only	
For delivery information, visit our website at www.usps.com ®.	
Custer, WA 98240	
OFFICIAL USE	
Certified Mail Fee	\$3.75
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$1.85
<input checked="" type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00
Postage	\$0.58
Total Postage and Fees	\$6.18
Sent To Roger and Jennifer Sefzik	
Street and Apt. No., or PO Box No. P.O. Box 433	
City, State, ZIP+4® Custer, WA 98240	
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	





PO Box 61229
Houston, TX 77208

1111 Travis Street
Houston, TX 77002
Phone: 713/209-2400
Fax: 713/209-2478
harvestmidstream.com

May 11, 2022

CERTIFIED MAIL 7021 2720 0000 5123 8592
RETURN RECEIPT REQUESTED

Roger and Jennifer Sefzik
PO Box 433
Custer, WA 98240

Dear Madam/Sir,

According to New Mexico Environment Department (NMED) air quality regulations, Harvest Four Corners, LLC must announce its intent to submit an application to revise the air quality permit for its 32-8#2 CDP Compressor Station. The expected date of application submittal to the Air Quality Bureau is during the week of May 23, 2022.

The exact location of the facility, known as the 32-8#2 Central Delivery Point, is latitude 36 deg, 57 min, 25 sec and longitude -107 deg, 39 min, 47 sec. The approximate location of this facility is approximately 17.4 miles east of Aztec, New Mexico (from the intersection of Highway 550 and Highway 173, go east on Highway 173 and drive 18 miles to Highway 511 (Sportsman' Inn), turn left on Highway 511 and drive 18.6 miles (crossing the dam) to mile marker 26.6, site is on the right.).

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Particulate Matter Less Than 2.5 Microns (PM _{2.5})	<u>1.4</u>	<u>6.1</u>
Total Sum of all Hazardous Air Pollutants (HAPs)	<u>1.5</u>	<u>6.6</u>
Green House Gas Emissions as Total CO _{2e}	<u>N/A</u>	<u>188375.5</u>

The standard and maximum operating schedules for the station will be 24 hours per day, 7 days per week, and a maximum of 52 weeks per year.

If you have any comments about the construction or operation of this facility, and want your comments to be made as part of the permit review process, you must submit your comments in writing to this

Roger and Jennifer Sefzik

May 11, 2022

Page 2

address: Permit Programs Manager; New Mexico Environment Department; Air Quality Bureau; 525 Camino de los Marquez, Suite 1; Santa Fe, New Mexico, 87505-1816; 505-476-4300; 1-800-224-7009; https://www.env.nm.gov/aqb/permit/aqb_draft_permits.html. Other comments or questions may be submitted verbally.

Please refer to the company name and facility name, or send a copy of this notice along with your comments, since the Department may have not yet received the permit application. Please include a legible return mailing address with your comments. Once the Department has performed a preliminary review of the application and its air quality impacts, the Department's notice will be published in the legal section of a newspaper circulated near the facility location.

General information about air quality and the permitting process can be found at the Air Quality Bureau's web site. The regulation dealing with public participation in the permit review process is 20.2.72.206 NMAC. This regulation can be found in the "Permits" section of this web site.

Atencion

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Sincerely,

 for

Oakley Hayes
Environmental Specialist
Harvest Four Corners, LLC
1755 Arroyo Drive
Bloomfield, NM 87413

Notice of Non-Discrimination

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PO Box 61229
Houston, TX 77208

1111 Travis Street
Houston, TX 77002
Phone: 713/209-2400
Fax: 713/209-2478
harvestmidstream.com

May 11, 2022

CERTIFIED MAIL 7021 2720 0000 5123 8615
RETURN RECEIPT REQUESTED

San Juan County Clerk
Post Office Box 550
Aztec, New Mexico 87410

Dear Madam/Sir,

According to New Mexico Environment Department (NMED) air quality regulations, Harvest Four Corners, LLC must announce its intent to submit an application to revise the air quality permit for its 32-8#2 CDP Compressor Station. The expected date of application submittal to the Air Quality Bureau is during the week of May 23, 2022.

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Particulate Matter Less Than 10 Microns (PM ₁₀)	<u>1.4</u>	<u>6.1</u>
Particulate Matter Less Than 2.5 Microns (PM _{2.5})	<u>1.4</u>	<u>6.1</u>
Total Sum of all Hazardous Air Pollutants (HAPs)	<u>1.5</u>	<u>6.6</u>
Green House Gas Emissions as Total CO ₂ e	<u>N/A</u>	<u>188375.5</u>

The standard and maximum operating schedules for the station will be 24 hours per day, 7 days per week, and a maximum of 52 weeks per year.

If you have any comments about the construction or operation of this facility, and want your comments to be made as part of the permit review process, you must submit your comments in writing to this

address: Permit Programs Manager; New Mexico Environment Department; Air Quality Bureau; 525 Camino de los Marquez, Suite 1; Santa Fe, New Mexico, 87505-1816; 505-476-4300; 1-800-224-7009; https://www.env.nm.gov/aqb/permit/aqb_draft_permits.html. Other comments or questions may be submitted verbally.

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Sincerely,

 for

Oakley Hayes
Environmental Specialist
Harvest Four Corners, LLC
1755 Arroyo Drive
Bloomfield, NM 87413

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PO Box 61229
Houston, TX 77208

1111 Travis Street
Houston, TX 77002
Phone: 713/209-2400
Fax: 713/209-2478
harvestmidstream.com

May 11, 2022

CERTIFIED MAIL 7021 2720 0000 5123 8608
RETURN RECEIPT REQUESTED

Rio Arriba County Clerk
Post Office Box 158
Tierra Amarilla, New Mexico 87575

Dear Madam/Sir,

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Green House Gas Emissions as Total CO ₂ e	<u>N/A</u>	<u>188375.5</u>

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Sincerely,

 for

Oakley Hayes
Environmental Specialist
Harvest Four Corners, LLC
1755 Arroyo Drive
Bloomfield, NM 87413

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PO Box 61229
Houston, TX 77208

1111 Travis Street
Houston, TX 77002
Phone: 713/209-2400
Fax: 713/209-2478
harvestmidstream.com

May 11, 2022

CERTIFIED MAIL 7021 2720 0000 5123 8547
RETURN RECEIPT REQUESTED

Public Information Officer
NMDOT Region 5
P.O. Box 4127
Santa Fe, NM 87502

Dear Madam/Sir,

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PO Box 61229
Houston, TX 77208

1111 Travis Street
Houston, TX 77002
Phone: 713/209-2400
Fax: 713/209-2478
harvestmidstream.com

May 11, 2022

CERTIFIED MAIL 7021 2720 0000 5123 8561
RETURN RECEIPT REQUESTED

County Clerk, La Plata County
679 Turner Drive, Suite C
Durango CO, 81303

Dear Madam/Sir,

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address: Permit Programs Manager; New Mexico Environment Department; Air Quality Bureau; 525 Camino de los Marquez, Suite 1; Santa Fe, New Mexico, 87505-1816; 505-476-4300; 1-800-224-7009; https://www.env.nm.gov/aqb/permit/aqb_draft_permits.html. Other comments or questions may be submitted verbally.

Please refer to the company name and facility name, or send a copy of this notice along with your comments, since the Department may have not yet received the permit application. Please include a legible return mailing address with your comments. Once the Department has performed a preliminary review of the application and its air quality impacts, the Department's notice will be published in the legal section of a newspaper circulated near the facility location.

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Atencion

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Sincerely,

 for

Oakley Hayes
Environmental Specialist
Harvest Four Corners, LLC
1755 Arroyo Drive
Bloomfield, NM 87413

Notice of Non-Discrimination

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PO Box 61229
Houston, TX 77208

1111 Travis Street
Houston, TX 77002
Phone: 713/209-2400
Fax: 713/209-2478
harvestmidstream.com

May 11, 2022

CERTIFIED MAIL 7021 2720 0000 5123 8578
RETURN RECEIPT REQUESTED

Thomas L. and Linda L. Jenkins
1376 E. Quinn Road
Pearce, AZ 85625

Dear Madam/Sir,

According to New Mexico Environment Department (NMED) air quality regulations, Harvest Four Corners, LLC must announce its intent to submit an application to revise the air quality permit for its 32-8#2 CDP Compressor Station. The expected date of application submittal to the Air Quality Bureau is during the week of May 23, 2022.

The exact location of the facility, known as the 32-8#2 Central Delivery Point, is latitude 36 deg, 57 min, 25 sec and longitude -107 deg, 39 min, 47 sec. The approximate location of this facility is approximately 17.4 miles east of Aztec, New Mexico (from the intersection of Highway 550 and Highway 173, go east on Highway 173 and drive 18 miles to Highway 511 (Sportsman' Inn), turn left on Highway 511 and drive 18.6 miles (crossing the dam) to mile marker 26.6, site is on the right.).

The proposed modification is to replace five uncontrolled 1,357 horsepower compressor engines with five controlled 1,500 horsepower engines.

The station's estimated maximum quantities of any regulated air contaminants will be as follows in pounds per hour and tons per year and may change slightly during the course of the Department's review:

	Pounds Per Hour	Tons Per Year
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Volatile Organic Compounds (VOCs)	<u>36.2</u>	<u>172.3</u>
Particulate Matter Less Than 10 Microns (PM ₁₀)	<u>1.4</u>	<u>6.1</u>
Particulate Matter Less Than 2.5 Microns (PM _{2.5})	<u>1.4</u>	<u>6.1</u>
Total Sum of all Hazardous Air Pollutants (HAPs)	<u>1.5</u>	<u>6.6</u>
Green House Gas Emissions as Total CO ₂ e	<u>N/A</u>	<u>188375.5</u>

The standard and maximum operating schedules for the station will be 24 hours per day, 7 days per week, and a maximum of 52 weeks per year.

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Sincerely,

 for

Oakley Hayes
Environmental Specialist
Harvest Four Corners, LLC
1755 Arroyo Drive
Bloomfield, NM 87413

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PO Box 61229
Houston, TX 77208

1111 Travis Street
Houston, TX 77002
Phone: 713/209-2400
Fax: 713/209-2478
harvestmidstream.com

May 11, 2022

CERTIFIED MAIL 7021 2720 0000 5123 8585
RETURN RECEIPT REQUESTED

Bureau of Land Management
6251 College Blvd, Suite A
Farmington, NM 87402

Dear Madam/Sir,

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Green House Gas Emissions as Total CO ₂ e	<u>N/A</u>	<u>188375.5</u>

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Sincerely,

 for

Oakley Hayes
Environmental Specialist
Harvest Four Corners, LLC
1755 Arroyo Drive
Bloomfield, NM 87413

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Fax: 713/209-2478
harvestmidstream.com

May 11, 2022

CERTIFIED MAIL 7021 2720 0000 5123 8554
RETURN RECEIPT REQUESTED

Environmental Programs Division
Southern Ute Tribe
P.O. Box 737
Ignacio, CO 81137

Dear Madam/Sir,

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Bloomfield, NM 87413

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Firefighters clear brush and debris away from cabins along Highway 518 on Friday near the Taos County line in New Mexico while fire rages over the nearby ridge. JIM WEBER/SANTA FE NEW MEXICAN VIA AP

Firefighters slow growth of massive NM wildfire

Susan Montoya Bryan
ASSOCIATED PRESS

ALBUQUERQUE, N.M. – Firefighters have been able to slow the growth of a massive wildfire burning in the mountains of northeastern New Mexico as they prepared Wednesday for another round of red-flag weather that has the potential to push the flames through more unburned territory.

Forecasters warned that hot, windy and dry conditions have prompted warnings for high fire danger from southern Nevada through parts of Arizona, New Mexico and Colorado starting Thursday.

Most of the large fires so far this spring have been in Arizona and New Mexico, the largest of which has raced across more than 471 square miles of forest that many fire managers have described as “ripe and ready to burn” due to a megadrought that has spanned decades and warm and windy conditions brought on by climate change.

While the fire encompasses an area more than 1.5 times the size of New York City, fire managers said there are pockets of green within the perimeter that could still burn.

“We’re trying to go all the way around the edge of the fire and we want to keep the fire where it is right now,” Jayson Coil, an operations chief assigned to the blaze, said Wednesday of using bulldozers to cut wide lines that can block flames.

Fire managers also said not all areas have been burned severely, and crews have been able to protect many homes

and structures by clearing out vegetation and using sprinklers and hose lays to knock down the flames as they approach populated areas.

Still, New Mexico Gov. Michelle Lujan Grisham has said damage estimates for homes and structures could reach more than 1,000 by the time all the assessments are done.

She spoke with President Joe Biden on Tuesday and underscored the impacts of the fires on communities and the need for ongoing partnership with the federal government as the drought-stricken state recovers and rebuilds from some of the most devastating wildfires on record in New Mexico.

Biden reaffirmed the support of the federal government and said every effort will be made to provide immediate help to people in the impacted communities. He also expressed his gratitude to the first responders, firefighters and other personnel who are battling the blazes and have come to the aid of residents.

Evacuation orders remain in place for residents near a handful of large blazes in New Mexico, Colorado and Texas, where three large fires were reported Tuesday, according to the National Inter-agency Fire Center.

Lujan Grisham has warned that many New Mexico residents, depending on where they live, should be ready for potential evacuations all summer given the likelihood for higher fire danger due to strong winds, warmer temperatures brought on by climate change and forecasts for little to no precipitation.

Court weighs clash on online publication of voting records

Morgan Lee
ASSOCIATED PRESS

ALBUQUERQUE, N.M. – A conservative-backed foundation that aims to post online registration records for voters across the country urged a federal judge Tuesday to override objections by New Mexico election regulators who say the initiative violates state law and would discourage people from registering to vote out of privacy concerns. The VoteRef.com website does not list details of how people voted regarding candidates or initiatives.

The Voter Reference Foundation has posted voter rolls from at least 20 states that can be searched by names or addresses to verify where people live and view whether they voted in various past elections.

A companion website highlights the difference between the number of ballots cast according to certified election results and the number of people listed as having voted on registration rolls at various points in time as local registrations are added and purged.

Eddie Greim, an attorney for Voter Reference Foundation, urged a federal judge to intervene and ensure voter rolls can be published online to provide direct accountability and allow people to vet the accuracy of most registration records submitted by others.

“The entire purpose of this is for voters to take control of their own records and become responsible,” Greim said during a hearing Tuesday at U.S. District Court in Albuquerque. New Mexico voters already can look up their own registration online by providing a date of birth.

New Mexico election regulators say the unprecedented efforts flouts state statutes that limit the acquisition and sharing of voter registration rolls to

governmental activities and political campaigns.

Democratic Secretary of State Maggie Toulouse Oliver in December referred the group’s effort for possible prosecution to the state attorney general. No charges have been filed.

On Tuesday, an attorney representing the secretary of state’s office warned that many residents will be reluctant or unwilling to register to vote if they know that required personal information is distributed openly.

“People will simply not register if they think we will sell their data or make it available to the world,” said Olga Serafimova, an attorney for the state attorney general and secretary of state. “The system will unravel.”

She said election regulators in several states see flaws in the foundation’s methodology for highlighting “discrepancies” between voting tallies on Election Day and registration records that are updated continually.

Tuesday’s hearing included testimony from Voter Reference Foundation Executive Director Gina Swoboda, a former official with the Arizona secretary of state’s office, and the state elections director for New Mexico.

Federal District Court Judge James Browning peppered attorneys with questions and said the hearing would be extended to another day to allow more testimony. He took no other immediate action.

Voter Reference Foundation, created by former Republican Senate candidate Doug Truax of Illinois, removed New Mexico registration records from its website in March and filed a lawsuit arguing that the state’s restrictions on voter registration data violate free speech guarantees of the U.S. Constitution.

NOTICE OF AIR QUALITY PERMIT APPLICATION

Harvest Four Corners, LLC announces the submittal of an application to the New Mexico Environment Department to revise the air quality permit for one of its natural gas compressor stations. The expected date of application submittal to the Air Quality Bureau is during the week of May 23, 2022.

The exact location of the facility, known as the 32-8#2 Central Delivery Point, is latitude 36 deg, 57 min, 25 sec and longitude -107 deg, 39 min, 47 sec. The approximate location of this facility is approximately 17.4 miles east of Aztec, New Mexico (from the intersection of Highway 550 and Highway 173, go east on Highway 173 and drive 18 miles to Highway 511 (Sportsman Inn), turn left on Highway 511 and drive 18.6 miles (crossing the dam) to mile marker 26.6, site is on the right.).

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Green House Gas Emissions as Total CO2e	N/A	188375.5

The standard and maximum operating schedules for the station will be 24 hours per day, 7 days per week, and a maximum of 52 weeks per year.

The owner and/or operator of the facility is:

Harvest Four Corners, LLC
1755 Arroyo Drive
Bloomfield, New Mexico 87413

If you have any comments about the construction or operation of this facility, and you want your comments to be made as part of the permit review process, you must submit your comments in writing to this address: Permit Programs Manager; New Mexico Environment Department; Air Quality Bureau; 525 Camino de los Marquez, Suite 1; Santa Fe, New Mexico; 87505-1816; (505) 476-4300; 1 800 224-7009; https://www.env.nm.gov/aqb/permit/aqb_draft_permits.html. Other comments and questions may be submitted verbally.

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TX-GC1088443-01

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2022
Announcing the Graduation of
JANE WHITE
Jane White earned a
bachelor of science degree
in psychology from State
University. Congratulations!

ONLY \$1500

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UMVFYCH

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- 2) Enter today's code before Saturday, May 21 at 11:59 p.m.
- 3) Redeem today's bonus code for coupon redemptions that interest you. Coupons cover restaurants, travel, family fun, automotive, shopping and more!



* Discounts vary by merchant, location and offer; subject to availability. Offers may change without notice. Total savings vary based on the number of discounts and coupons redeemed and value of offers.

TODAY'S BONUS CODE

Public Notices

public notices/legals email: legals@daily-times.com
or call: 505.564.4566

Legal Notices

FR: Farmington Mini Storage
501 E. Animas
Farmington, NM 87401
505-327-5946

Shannon James
3802 English Rd. Apt. B2
Farmington, NM 87402

Victor Rodriguez-Hernandez
15800 Chase Hill Blvd. Apt. 1901
San Antonio, TX 78256

Hanson O. Tsosie
1805 Oriole Ave
Farmington, NM 87401

William Allen
302 N. Loma Linda Ave
Farmington, NM 87401

Herman L. Mattison
1404 Fairgrounds
Farmington, NM 87401

Welting Hoffman
5621 US Hwy 64 #8
Farmington, NM 87401

Angela Horman

Legal Notices

600 W. Blanco Blvd
Apt 59
Bloomfield, NM 87413

Israel Sanchez
1409 Camino Sol
Farmington, NM 87401

Candace A. Yazzie
2708 Crescent Ave
Farmington, NM 87401

Dallas W. Begaye
2014 N. Tucker Ave #4
Farmington, NM 87402

Marvon G. Richardson
609 W. Animas Unit #1
Farmington, NM 87401

Elvina J. Charles
PO Box 1115
Shiprock, NM 87420

Janell J. Valdez
1100 #A LaPlata Hwy
Farmington, NM 87401

Hector Gomez Solis
10320 Cornelia Ct. SW
Albuquerque, NM 87121

Legal Notices

Tyrone T. Lee
PO Box 7442
Newcomb, NM 87455

Shardai L. Pioche
PO Box 583
Kirtland, NM 87417

Wanda L. Henry
2011 Troy King Rd.
Space 38
Farmington, NM 87401
2 units

Fannie M. Etcitty
150 A Road 79447
Nageezi, NM 87037

Rudy M. Gaytan
PO Box 1477
TecNosPos, AZ 86514

Caleb A. Ellis
4020 Windsor Dr.
Farmington, NM 87402

Larry Keedah Jr.
PO Box 5041
Farmington, NM 87499

Notice is hereby given that

Legal Notices

those listed will have personal property sold or otherwise disposed of to satisfy a lien of past due rent and other related charges. The sale will be held at 9:00 a.m. on Thursday, June 23, 2022. The location of the sale will be 501 E. Animas with units also at 400 N. Vine & 1090 W. Murray in Farmington, NM. The sale of the property is subject to the Occupant redeeming the lien prior to the sale.
#5263216, Daily Times, May 19, 26, 2022

STATE OF NEW MEXICO
COUNTY OF SAN JUAN
IN THE ELEVENTH JUDICIAL DISTRICT COURT
Case No. D-101-PB-2022-00016
IN THE MATTER OF THE ESTATE OF JOHN LEE ECK, DECEASED.

NOTICE OF HEARING BY PUBLICATION

TO: UNKNOWN HEIRS OF

Legal Notices

JOHN LEE ECK, DECEASED, AND ALL UNKNOWN PERSONS WHO HAVE OR CLAIM ANY INTEREST IN THE ESTATE JOHN LEE ECK, DECEASED, OR IN THE MATTER BEING LITIGATED IN THE HEREINAFTER MENTIONED HEARING.

NOTICE IS HEREBY GIVEN of the following:

1. JOHN LEE ECK, deceased, died on February 5, 2022;
2. DANA PRESLEY filed a Petition for Adjudication of Intestacy, Determination of Heirship, and Formal Appointment of Personal Representative in the above-styled and numbered matter on April 15, 2022, and a hearing on the above-referenced Petition has been set for May 31, 2022, at 11:00am before the Honorable R. David Pederson, Eleventh Judicial District Court.
3. The Hearing set for May 1, 2022 at 11:00am shall be heard remotely. To appear

Legal Notices

by video: meet.google.com/dok-bytw-otr. To appear by phone: 1-478-845-2322, PIN: 912 628 490 #.

3. Pursuant to Section 45-1-401 (A) (3), N.M.S.A., 1978, notice of the time and place of hearing on the above-referenced Petition is hereby given to you by publication, once each week, for three consecutive weeks.
DATED this 29th day of April, 2022.
/s/
Kristi A. Wareham, Attorney for Petitioner

KRISTI A. WAREHAM, P.C.
Attorney for Petitioner
708 Paseo de Peralta
Santa Fe, NM 87501
Telephone: (505) 820-0698
Fax: (505) 629-1298
Email: kristiwareham@icloud.com
Legal No. 5243431 published in the Daily Times on 5/5, 5/12, 5/19/2022.



Legal Notices

NOTICE OF AIR QUALITY PERMIT APPLICATION

Harvest Four Corners, LLC announces the submittal of an application to the New Mexico Environment Department to revise the air quality permit for one of its natural gas compressor stations. The expected date of application submittal to the Air Quality Bureau is during the week of May 23, 2022.

The exact location of the facility, known as the 32-8#2 Central Delivery Point, is latitude 36 deg, 57 min, 25 sec and longitude -107 deg, 39 min, 47 sec. The approximate location of this facility is approximately 17.4 miles east of Aztec, New Mexico (from the intersection of Highway 550 and Highway 173, go east on Highway 173 and drive 18 miles to Highway 511 (Sportsman Inn), turn left on Highway 511 and drive 18.6 miles (crossing the dam) to mile marker 26.6, site is on the right).

The proposed modification is to replace five uncontrolled 1,357 horsepower compressor engines with five controlled 1,500 horsepower engines.

The station's estimated maximum quantities of any regulated air contaminants will be as follows in pounds per hour and tons per year and may change slightly during the course of the Department's review:

	Pounds Per Hour	Tons Per Year
Nitrogen Oxides (NOX)	32.4	141.8
Carbon Monoxide (CO)	44.4	194.6
Volatile Organic Compounds (VOCs)	36.2	172.3
Particulate Matter Less Than 10 Microns (PM10)	1.4	6.1
Particulate Matter Less Than 2.5 Microns (PM2.5)	1.4	6.1
Total Sum of all Hazardous Air Pollutants (HAPs)	1.5	6.6
Green House Gas Emissions as Total CO2e	N/A	188375.5

The standard and maximum operating schedules for the station will be 24 hours per day, 7 days per week, and a maximum of 52 weeks per year.

The owner and/or operator of the facility is:
Harvest Four Corners, LLC
1755 Arroyo Drive
Bloomfield, New Mexico 87413

If you have any comments about the construction or operation of this facility, and you want your comments to be made as part of the permit review process, you must submit your comments in writing to this address: Permit Programs Manager; New Mexico Environment Department; Air Quality Bureau; 525 Camino de los Marquez, Suite 1; Santa Fe, New Mexico; 87505-1816; (505) 476-4300; 1 800 224-7009; https://www.env.nm.gov/aqb/permit/aqb_draft_permits.html. Other comments and questions may be submitted verbally.

Please refer to the company name and site name, or send a copy of this notice along with your comments, since the Department may have not yet received the permit application. Please include a legible return mailing address with your comments. Once the Department has performed a preliminary review of the application and its air quality impacts, the Department's notice will be published in the legal section of a newspaper circulated near the facility location.

General information about air quality and the permitting process can be found at the Air Quality Bureau's web site. The regulation dealing with public participation in the permit review process is 20.2.72.206 NMAC. This regulation can be found in the "Permits" section of this web site.

Atención

Este es un aviso de la oficina de Calidad del Aire del Departamento del Medio Ambiente de Nuevo México, acerca de las emisiones producidas por un establecimiento en esta área. Si usted desea información en español, por favor comuníquese con esa oficina al teléfono 505-476-5557.

Notice of Non-Discrimination

NMED does not discriminate on the basis of race, color, national origin, disability, age or sex in the administration of its programs or activities, as required by applicable laws and regulations. NMED is responsible for coordination of compliance efforts and receipt of inquiries concerning non-discrimination requirements implemented by 40 C.F.R. Part 7, including Title VI of the Civil Rights Act of 1964, as amended; Section 504 of the Rehabilitation Act of 1973; the Age Discrimination Act of 1975, Title IX of the Education Amendments of 1972, and Section 13 of the Federal Water Pollution Control Act Amendments of 1972. If you have any questions about this notice or any of NMED's non-discrimination programs, policies or procedures, or if you believe that you have been discriminated against with respect to a NMED program or activity, you may contact: Kathryn Becker, Non-Discrimination Coordinator, NMED, 1190 St. Francis Dr., Suite N4050, P.O. Box 5469, Santa Fe, NM 87502, (505) 827-2855, nd.coordinator@state.nm.us. You may also visit our website at <https://www.env.nm.gov/non-employee-discrimination-complaint-page/> to learn how and where to file a complaint of discrimination.
#5260631, Daily Times, May 19, 2022

Navajo Nation Division of Transportation
Request for Proposal (RFP)
Bid No. 22-05-2798LE

The Navajo Division of Transportation (Navajo DOT) is soliciting proposals to construct "N35(8)1,2&4 Road Improvement Project in Sweetwater, AZ". The proposed work consists of grading and subgrade treatment; placement of aggregate base course and placement of double chip seal pavement or hot asphalt pavement; box culvert construction; installation of drainage structures, fencing, cattle-guards, gates, signs, striping, and guardrail; and other miscellaneous work as called for in the design plans and specifications for this 10.31 km (6.40 miles) roadway project located in Sweetwater, AZ, Apache County, Navajo Nation.

Proposals will be subject to all requirements specified in RFP No. 22-05-2798LE. The RFP package will be available for download from the Navajo DOT website (<https://navajodot.org/rfp%2Frfq>), beginning May 19, 2022 at 10:00 AM.

A MANDATORY Virtual Pre-Proposal Meeting will be held on Wednesday, May 25, 2022 at 10:00 AM (local Window Rock, AZ time). The Pre-Proposal Meeting will consist of a

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brief presentation explaining the Project Scope and the necessary items required to be submitted as part of the RFP. Contractors are encouraged to conduct a field review (on their own) of the project site where End of Project is located 6.5 miles south of US 160/N35 intersection in Red Mesa, AZ. N35 proceeds south along dirt road for 3.2 miles to N35/N5047/N351 intersection then proceeds 2.1 miles westward towards the existing Chapter House. The link for the web meeting and conference call number are as follows: <https://dibbleengineering.mywebex.com/dibbleengineering.my/j.php?MTID=m743b2e675bb1e18ee9b6def0663d2592> (Toll Free): 1 415 655 0001; Access Code: 2559 524 2632; Meeting Password: 93658732

Proposal and bid package must be physically submitted to the following address by June 23, 2022, no later than 4:00 PM (local Window Rock, AZ time):

Navajo Division of Transportation
Attention: Ardanial Begay
Navajo Transportation Complex
#16 Old Coal Mine Road
Mentmore, NM 87319
(505) 371-8351

The Navajo Nation Business Opportunity Act and Navajo Preference Act shall apply to this project. Prospective bidders are encouraged to familiarize themselves with these provisions. Having preference does not guarantee the award of the project. Competitive Sealed Proposals under the Navajo Nation Business Opportunity Act shall be utilized in the selection of the Contractor. Refer to 12 N.N.C. §332 Competitive Sealed Proposals.

The Navajo Nation reserves the right to waive any formalities or irregularities in the Request for Proposals and/or to reject any or all bids; to be the sole judge of the suitability of the materials offered and to award a contract for the furnishing of services it deems to be in the best interest of the Navajo Nation.
#5262852, Daily Times, May 19, 22, 29, Jun. 5, 2022

Navajo Nation Division of Transportation
Request for Proposal (RFP)
Bid No.22-02-2737LE – N36 Safety - Hot Mix Asphalt Paving

The Navajo Division of Transportation (Navajo DOT) is soliciting proposals to construct "N36 Safety – Hot Mix Asphalt Paving Project in San Juan County, NM. The proposed work consists of providing equipment, manpower and materials to deliver Hot Mix Asphalt (HMA SP IV) material to the designated locations, as called for in the design plans and specifications for this 1.10-mile (5829.5 foot) roadway project located in San Juan County, NM, Navajo Nation.

Proposals will be subject to all requirements specified in RFP No. 22-02-2737LE. The RFP package will be available for download from the Navajo DOT website (www.navajodot.org/rfp%2Frfq), beginning May 12, 2022 at 10:00 AM.

A Pre-Proposal Meeting will not be applicable for this work. Proposal and bid package must be physically submitted to the following address by June 3, 2022, no later than 4:00 PM (local Window Rock, AZ time):

Navajo Division of Transportation
Attention: Ardanial Begay
Navajo Transportation Complex
#16 Old Coal Mine Road
Mentmore, NM 87319
(505) 371-8351

The Navajo Nation Business Opportunity Act and Navajo Preference Act shall apply to this project. Prospective bidders are encouraged to familiarize themselves with these provisions. Having preference does not guarantee the award of the project. Competitive Sealed Proposals under the Navajo Nation Business Opportunity Act shall be utilized in the selection of the Contractor. Refer to 12 N.N.C. §332 Competitive Sealed Proposals.

The Navajo Nation reserves the right to waive any formalities or irregularities in the Request for Proposals and/or to reject any or all bids; to be the sole judge of the suitability of the materials offered and to award a contract for the furnishing of services it deems to be in the best interest of the Navajo Nation.
#0005250809, Daily Times, May, 12, 15, 19, 22, 2022

Navajo Nation Division of Transportation
Request for Proposal (RFP)
Bid No.22-02-2736LE – N36 Safety - Tack and Prime Coats

The Navajo Division of Transportation (Navajo DOT) is soliciting proposals to construct "N36 Safety – Tack and Prime Coats Project in San Juan County, NM. The proposed work consists of providing equipment, manpower and materials to deliver tack coat and prime coat materials to the designated locations, as called for in the design plans and specifications for this 1.10-mile (5829.5 foot) roadway project located in San Juan County, NM, Navajo Nation.

Proposals will be subject to all requirements specified in RFP No. 22-02-2736LE. The RFP package will be available for download from the Navajo DOT website (www.navajodot.org/rfp%2Frfq), beginning May 12, 2022 at 10:00 AM.

A Pre-Proposal Meeting will not be applicable for this work.

Proposal and bid package must be physically submitted to the following address by June 3, 2022, no later than 4:00 PM (local Window Rock, AZ time):

Navajo Division of Transportation
Attention: Ardanial Begay
Navajo Transportation Complex
#16 Old Coal Mine Road
Mentmore, NM 87319
(505) 371-8351

The Navajo Nation Business Opportunity Act and Navajo Preference Act shall apply to this project. Prospective bidders are encouraged to familiarize themselves with these provisions. Having preference does not guarantee the award of the project. Competitive Sealed Proposals under the Navajo Nation Business Opportunity Act shall be utilized in the selection of the Contractor. Refer to 12 N.N.C. §332 Competitive Sealed Proposals.

The Navajo Nation reserves the right to waive any formalities or irregularities in the Request for Proposals

Legal Notices

and/or to reject any or all bids; to be the sole judge of the suitability of the materials offered and to award a contract for the furnishing of services it deems to be in the best interest of the Navajo Nation.
#0005250780, Daily Times, May, 12, 15, 19, 22, 2022

Navajo Nation Division of Transportation
Request for Proposal (RFP)
Bid No.22-02-2735LE – N36 Safety - Base Course

The Navajo Division of Transportation (Navajo DOT) is soliciting proposals to construct "N36 Safety – Base Course Project in San Juan County, NM. The proposed work consists of providing equipment, manpower and materials to deliver aggregate base course materials to the designated locations, as called for in the design plans and specifications for this 1.10-mile (5829.5 foot) roadway project located in San Juan County, NM, Navajo Nation.

Proposals will be subject to all requirements specified in RFP No. 22-02-2735LE. The RFP package will be available for download from the Navajo DOT website (www.navajodot.org/rfp%2Frfq), beginning May 12, 2022 at 10:00 AM.

A Pre-Proposal Meeting will not be applicable for this work.

Proposal and bid package must be physically submitted to the following address by June 3, 2022, no later than 4:00 PM (local Window Rock, AZ time):

Navajo Division of Transportation
Attention: Ardanial Begay
Navajo Transportation Complex
#16 Old Coal Mine Road
Mentmore, NM 87319
(505) 371-8351

The Navajo Nation Business Opportunity Act and Navajo Preference Act shall apply to this project. Prospective bidders are encouraged to familiarize themselves with these provisions. Having preference does not guarantee the award of the project. Competitive Sealed Proposals under the Navajo Nation Business Opportunity Act shall be utilized in the selection of the Contractor. Refer to 12 N.N.C. §332 Competitive Sealed Proposals.

The Navajo Nation reserves the right to waive any formalities or irregularities in the Request for Proposals and/or to reject any or all bids; to be the sole judge of the suitability of the materials offered and to award a contract for the furnishing of services it deems to be in the best interest of the Navajo Nation.
#0005250773, Daily Times, May, 12, 15, 19, 22, 2022

Navajo Nation Division of Transportation
Request for Proposal (RFP)
Bid No.22-02-2734LE – N36 Safety - Borrow

The Navajo Division of Transportation (Navajo DOT) is soliciting proposals to construct "N36 Safety – Borrow Project in San Juan County, NM. The proposed work consists of providing equipment, manpower and materials to deliver borrow material to the designated locations, as called for in the design plans and specifications for this 1.10-mile (5829.5 foot) roadway project located in San Juan County, NM, Navajo Nation.

Proposals will be subject to all requirements specified in RFP No. 22-02-2734LE. The RFP package will be available for download from the Navajo DOT website (www.navajodot.org/rfp%2Frfq), beginning May 12, 2022 at 10:00 AM.

A Pre-Proposal Meeting will not be applicable for this work.

Proposal and bid package must be physically submitted to the following address by June 3, 2022, no later than 4:00 PM (local Window Rock, AZ time):

Navajo Division of Transportation
Attention: Ardanial Begay
Navajo Transportation Complex
#16 Old Coal Mine Road
Mentmore, NM 87319
(505) 371-8351

The Navajo Nation Business Opportunity Act and Navajo Preference Act shall apply to this project. Prospective bidders are encouraged to familiarize themselves with these provisions. Having preference does not guarantee the award of the project. Competitive Sealed Proposals under the Navajo Nation Business Opportunity Act shall be utilized in the selection of the Contractor. Refer to 12 N.N.C. §332 Competitive Sealed Proposals.

The Navajo Nation reserves the right to waive any formalities or irregularities in the Request for Proposals and/or to reject any or all bids; to be the sole judge of the suitability of the materials offered and to award a contract for the furnishing of services it deems to be in the best interest of the Navajo Nation.
#0005250750, Daily Times, May, 12, 15, 19, 22, 2022

DINE COLLEGE
REQUEST FOR PROPOSAL

Dine College is requesting for proposals (RFP) for the following:
• Shiprock Classroom Building Roof Renovation Project
• Crownpoint Center Building Roof Renovation Project
• Shiprock North Campus Gymnasium HVAC

RFP packets are available for interested parties by contacting Teresa Holtsoi, Procurement, at 928-724-6686 or via email at purchasing@dinecollege.edu (Monday through Friday 8:00 am to 5:00 pm). Project walk through varies per project. All interested parties must submit proposals in a sealed envelope with the firm name and address clearly written on the envelope. Proposals which are faxed or emailed will not be accepted. Sealed bids accepted through Varies per project. Bids received after this time will not be accepted. Dine College reserves the right to reject any and all proposals, whether within applicable cost limits, and to waive any informality or irregularity in the proposals received whenever such proposal rejection or waiver is in the best interest of Dine College. Submitted proposal for this RFP will become the property of Dine College and become a matter of public record, subject for review.
No. 5257266, The Daily Times, May 17, 19, 24, 26, 2022

SELL YOUR CAR
ADOPT A PET

BUY A BOAT
FIND A TREASURE

GET A DATE
LEARN YOGA

GET A MASSAGE
HIRE A HANDYMAN

Find whatever you need. Check out the classified ads everyday.



NOTICE

Harvest Four Corners, LLC announces its intent to apply to the New Mexico Environment Department (NMED) for an air quality permit modification for its natural gas compressor station known as the **32-8#2 CDP Compressor Station**. The expected date of application submittal to the Air Quality Bureau is during the week of May 23, 2022.

The exact location of the facility is latitude 36° 57' 25" and longitude -107° 39' 47" longitude in San Juan County, New Mexico, approximately 1.2 miles north-northeast of the intersection of Highway 511 and Road 4049.

Harvest proposes to replace five uncontrolled 1,357 horsepower compressor engines with five controlled 1,500 horsepower engines. No other changes to the permit are requested.

The station's estimated maximum quantities of any regulated air contaminants will be as follows in pounds per hour and tons per year and may change slightly during the course of the Department's review:

	Pounds Per Hour	Tons Per Year
Nitrogen Oxides (NO _x)	<u>32.4</u>	<u>141.8</u>
Carbon Monoxide (CO)	<u>44.4</u>	<u>194.6</u>
Volatile Organic Compounds (VOCs)	<u>36.2</u>	<u>172.3</u>
Particulate Matter Less Than 10 Microns (PM ₁₀)	<u>1.4</u>	<u>6.1</u>
Particulate Matter Less Than 2.5 Microns (PM _{2.5})	<u>1.4</u>	<u>6.1</u>
Total Sum of all Hazardous Air Pollutants (HAPs)	<u>1.5</u>	<u>6.6</u>
Green House Gas Emissions as Total CO ₂ e	<u>N/A</u>	<u>188375.5</u>

The standard and maximum operating schedules of the facility will be from midnight to midnight, 7 days per week, and a maximum of 52 weeks per year.

The owner and/or operator of the facility is:

Harvest Four Corners, LLC, 1755 Arroyo Drive, Bloomfield, NM 87413

If you have any comments about the construction or operation of this facility, and want your comments to be made as part of the permit review process, you must submit your comments in writing to this address: Permit Programs Manager; New Mexico Environment Department; Air Quality Bureau; 525 Camino de los Marquez, Suite 1; Santa Fe, New Mexico, 87505-1816; 505-476-4300; 1-800-224-7009; https://www.env.nm.gov/aqb/permit/aqb_draft_permits.html. Other comments or questions may be submitted verbally.

Please refer to the company name and facility name, or send a copy of this notice along with your comments, since the Department may have not yet received the permit application. Please include a legible return mailing address with your comments. Once the Department has performed a preliminary review of the application and its air quality impacts, the Department's notice will be published in the legal section of a newspaper circulated near the facility location.

General information about air quality and the permitting process can be found at the Air Quality Bureau's web site. The regulation dealing with public participation in the permit review process is 20.2.72.206 NMAC. This regulation can be found in the "Permits" section of this web site.

Attencion

Este es un aviso de la Agencia de Calidad de Aire del Departamento de Medio Ambiente de Nuevo México, acerca de las emisiones producidas por un establecimiento en esta área. Si usted desea información en español, por favor de comunicarse con la oficina de Calidad de Aire al teléfono 505-476-5557.

Notice of Non-Discrimination

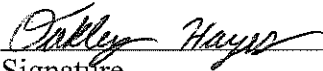
NMED does not discriminate on the basis of race, color, national origin, disability, age or sex in the administration of its programs or activities, as required by applicable laws and regulations. NMED is responsible for coordination of compliance efforts and receipt of inquiries concerning non-discrimination requirements implemented by 40 C.F.R. Part 7, including Title VI of the Civil Rights Act of 1964, as amended; Section 504 of the Rehabilitation Act of 1973; the Age Discrimination Act of 1975, Title IX of the Education Amendments of 1972, and Section 13 of the Federal Water Pollution Control Act Amendments of 1972. If you have any questions about this notice or any of NMED's non-discrimination programs, policies or procedures, you may contact: Kristine Pintado, Non-Discrimination Coordinator, New Mexico Environment Department, 1190 St. Francis Dr., Suite N4050, P.O. Box 5469, Santa Fe, NM 87502, (505) 827-2855, nd.coordinator@state.nm.us. If you believe that you have been discriminated against with respect to a NMED program or activity, you may contact the Non-Discrimination Coordinator identified above or visit our website at <https://www.env.nm.gov/NMED/EJ/index.html> to learn how and where to file a complaint of discrimination.

General Posting of Notices – Certification

I, Oakley Hayes, the undersigned, certify that on May 12, 2022, posted a true and correct copy of the attached Public Notice in the following publicly accessible and conspicuous places in the towns of Aztec and Navajo Dam of San Juan and Rio Arriba County, State of New Mexico on the following dates:

- | | |
|---|---------------------|
| 1. <u>32-8#2 CDP Facility Entrance</u> | <u>May 12, 2022</u> |
| 2. <u>Aztec Post Office, Aztec NM 7410</u> | <u>May 12, 2022</u> |
| 3. <u>Aztec Public Library, Aztec NM 87410</u> | <u>May 12, 2022</u> |
| 4. <u>Navajo Dam Post Office, Navajo Dam NM</u> | <u>May 12, 2022</u> |

Signed this 13th day of May, 2022,


Signature

5/13/2022
Date

Oakley Hayes
Printed Name

Environmental Specialist – Harvest Four Corners, LLC
Title

Walter Konkel

From: Walter Konkel
Sent: Friday, May 13, 2022 10:08
To: skelly@americangeneralmedia.com
Cc: Oakley Hayes
Subject: Request for Public Service Announcement
Attachments: Harvest - 32-8#2 CDP - May 2022 - NSR - Public Service Announcement.pdf

Mr. Kelly - Harvest Four Corners is submitting an air quality permit application to the New Mexico Air Quality Bureau to revise the permit for the 32-8#2 CDP Compressor Station.

On behalf of Harvest, I am requesting a Public Service Announcement for the project in accordance with New Mexico air quality regulation NMAC 20.2.72.203.B.(5).

Please provide Proof of Performance to me at this email address. The PSA is attached to this email.

Please let me know if you have any questions.

Thank you for your assistance.

Walter Konkel
[EcoLogic Environmental Consultants, LLC](#)
(805) 964-7597 (office)
(805) 284-4430 (mobile)

PUBLIC SERVICE ANNOUNCEMENT

Harvest Four Corners LLC, announces its intent to apply to the New Mexico Environment Department for a revision to its air quality permit for the 32-8 #2 CDP Compressor Station, located at 36° 57' 25" latitude and -107° 39' 47" longitude in San Juan County, New Mexico, 1.2 miles north-northeast of the intersection of Highway 511 and Road 4049.

The proposed permit revision consists of replacing five uncontrolled 1,357 horsepower compressor engines with five controlled 1,500 horsepower engines.

Public notices were posted at the following locations:

<u>Posting Location</u>	<u>Date of Posting</u>
<u>1. 32-8 #2 CDP Facility Entrance</u>	<u>May 12, 2022</u>
<u>2. U.S. Post Office, Aztec, NM 87410</u>	<u>May 12, 2022</u>
<u>3. Aztec Public Library, Aztec, NM 87410</u>	<u>May 12, 2022</u>
<u>4. U.S. Post Office, Navajo Dam, NM</u>	<u>May 12, 2022</u>

The owner and/or operator of the facility is:

Harvest Four Corners, LLC
1755 Arroyo Drive
Bloomfield, NM 87413

Questions and comments regarding this notice may be directed to:

Program Manager, New Source Review
New Mexico Environment Department
Air Quality Bureau
525 Camino de los Marquez, Suite 1
Santa Fe, New Mexico 87505-1816
(505) 476-4300 or (800) 224-7009
https://www.env.nm.gov/aqb/permit/aqb_draft_permits.html

Submittal of Public Service Announcement – Certification

I, Walter Konkel III, the undersigned, certify that on **May 13, 2022**, submitted a public service announcement to **KENN 1390 AM** that serves **San Juan and Rio Arriba counties**, in the state of New Mexico, in which the source is or is proposed to be located and that **KENN 1390 AM DID NOT RESPOND**.

Signed this 18th day of May, 2022,

Walter H. Konkel III
Signature

05/18/2022
Date

Walter H. Konkel III
Printed Name

Consultant – EcoLogic Environmental Consultants, LLC
Title

Section 10

Written Description of the Routine Operations of the Facility

A written description of the routine operations of the facility. Include a description of how each piece of equipment will be operated, how controls will be used, and the fate of both the products and waste generated. For modifications and/or revisions, explain how the changes will affect the existing process. In a separate paragraph describe the major process bottlenecks that limit production. The purpose of this description is to provide sufficient information about plant operations for the permit writer to determine appropriate emission sources.

The 32-8#2 CDP is a production field facility that receives natural gas collected from production gathering fields via pipeline. The facility compresses the gas using compressors driven by the natural gas-fired reciprocating internal combustion engines. The natural gas stream is then routed to the TEG dehydrators, which further dehydrate the gas stream.

Storage tanks are used to store lube oil and used oil, TEG, produced water, waste water and antifreeze. Waste products are hauled off-site as required.

There are no process bottlenecks that limit production.

Other emission sources include: startups, shutdowns and routine maintenance (SSM) from the compressors and piping (Unit SSM), and fugitive emissions from process piping (valves, flanges, seals, etc.).

The facility will operate up to 24 hours per day, seven days per week, 52 weeks per year, 8,760 hours per year.

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Section 11

Source Determination

Source submitting under 20.2.70, 20.2.72, 20.2.73, and 20.2.74 NMAC

Sources applying for a construction permit, PSD permit, or operating permit shall evaluate surrounding and/or associated sources (including those sources directly connected to this source for business reasons) and complete this section. Responses to the following questions shall be consistent with the Air Quality Bureau's permitting guidance, Single Source Determination Guidance, which may be found on the Applications Page in the Permitting Section of the Air Quality Bureau website.

Typically, buildings, structures, installations, or facilities that have the same SIC code, that are under common ownership or control, and that are contiguous or adjacent constitute a single stationary source for 20.2.70, 20.2.72, 20.2.73, and 20.2.74 NMAC applicability purposes. Submission of your analysis of these factors in support of the responses below is optional, unless requested by NMED.

A. Identify the emission sources evaluated in this section (list and describe): 32-8#2 CDP

B. Apply the 3 criteria for determining a single source:

SIC Code: Surrounding or associated sources belong to the same 2-digit industrial grouping (2-digit SIC code) as this facility, OR surrounding or associated sources that belong to different 2-digit SIC codes are support facilities for this source.

☒ Yes ☐ No

Common Ownership or Control: Surrounding or associated sources are under common ownership or control as this source.

☒ Yes ☐ No

Contiguous or Adjacent: Surrounding or associated sources are contiguous or adjacent with this source.

☒ Yes ☐ No

C. Make a determination:

- ☒ The source, as described in this application, constitutes the entire source for 20.2.70, 20.2.72, 20.2.73, or 20.2.74 NMAC applicability purposes. If in "A" above you evaluated only the source that is the subject of this application, all "YES" boxes should be checked. If in "A" above you evaluated other sources as well, you must check **AT LEAST ONE** of the boxes "NO" to conclude that the source, as described in the application, is the entire source for 20.2.70, 20.2.72, 20.2.73, and 20.2.74 NMAC applicability purposes.
- ☐ The source, as described in this application, **does not** constitute the entire source for 20.2.70, 20.2.72, 20.2.73, or 20.2.74 NMAC applicability purposes (A permit may be issued for a portion of a source). The entire source consists of the following facilities or emissions sources (list and describe):

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Section 12

Section 12.A

PSD Applicability Determination for All Sources

(Submitting under 20.2.72, 20.2.74 NMAC)

A PSD applicability determination for all sources. For sources applying for a significant permit revision, apply the applicable requirements of 20.2.74.AG and 20.2.74.200 NMAC and to determine whether this facility is a major or minor PSD source, and whether this modification is a major or a minor PSD modification. It may be helpful to refer to the procedures for Determining the Net Emissions Change at a Source as specified by Table A-5 (Page A.45) of the EPA New Source Review Workshop Manual to determine if the revision is subject to PSD review.

A. This facility is:

- ☒ a minor PSD source before and after this modification (if so, delete C and D below).
- ☐ a major PSD source before this modification. This modification will make this a PSD minor source.
- ☐ an existing PSD Major Source that has never had a major modification requiring a BACT analysis.
- ☐ an existing PSD Major Source that has had a major modification requiring a BACT analysis
- ☐ a new PSD Major Source after this modification.

B. This facility **is not** one of the listed 20.2.74.501 Table I – PSD Source Categories. The “project” emissions for this modification are **not significant under PSD for any pollutant**. The “project” emissions listed below only result from changes described in this permit application, thus no emissions from other **revisions or modifications, past or future** to this facility. Also, specifically discuss whether this project results in “de-bottlenecking”, or other associated emissions resulting in higher emissions. The project emissions (before netting) for this project are as follows [see Table 2 in 20.2.74.502 NMAC for a complete list of significance levels]:

- a. NOx: -1.0 TPY
- b. CO: -38.1 TPY
- c. VOC: --11.7 TPY
- d. SOx: +0.03 TPY
- e. PM: +0.5 TPY
- f. PM10: +0.5 TPY
- g. PM2.5: +0.5 TPY
- h. Fluorides: 0.0 TPY
- i. Lead: 0.0 TPY
- j. Sulfur compounds (listed in Table 2): 0.0 TPY
- k. GHG: +1,294.9 TPY

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Section 13

Determination of State & Federal Air Quality Regulations

This section lists each state and federal air quality regulation that may apply to your facility and/or equipment that are stationary sources of regulated air pollutants.

Not all state and federal air quality regulations are included in this list. Go to the Code of Federal Regulations (CFR) or to the Air Quality Bureau's regulation page to see the full set of air quality regulations.

Required Information for Specific Equipment:

For regulations that apply to specific source types, in the 'Justification' column **provide any information needed to determine if the regulation does or does not apply.** For example, to determine if emissions standards at 40 CFR 60, Subpart IIII apply to your three identical stationary engines, we need to know the construction date as defined in that regulation; the manufacturer date; the date of reconstruction or modification, if any; if they are or are not fire pump engines; if they are or are not emergency engines as defined in that regulation; their site ratings; and the cylinder displacement.

Required Information for Regulations that Apply to the Entire Facility:

See instructions in the 'Justification' column for the information that is needed to determine if an 'Entire Facility' type of regulation applies (e.g. 20.2.70 or 20.2.73 NMAC).

Regulatory Citations for Regulations That Do Not, but Could Apply:

If there is a state or federal air quality regulation that does not apply, but you have a piece of equipment in a source category for which a regulation has been promulgated, you must **provide the low level regulatory citation showing why your piece of equipment is not subject to or exempt from the regulation.** For example if you have a stationary internal combustion engine that is not subject to 40 CFR 63, Subpart ZZZZ because it is an existing 2 stroke lean burn stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, your citation would be 40 CFR 63.6590(b)(3)(i). **We don't want a discussion of every non-applicable regulation, but if it is possible a regulation could apply, explain why it does not.** For example, if your facility is a power plant, you do not need to include a citation to show that 40 CFR 60, Subpart OOO does not apply to your non-existent rock crusher.

Regulatory Citations for Emission Standards:

For each unit that is subject to an emission standard in a source specific regulation, such as 40 CFR 60, Subpart OOO or 40 CFR 63, Subpart HH, include the low level regulatory citation of that emission standard. Emission standards can be numerical emission limits, work practice standards, or other requirements such as maintenance. **Here are examples:** a glycol dehydrator is subject to the general standards at 63.764C(1)(i) through (iii); an engine is subject to 63.6601, Tables 2a and 2b; a crusher is subject to 60.672(b), Table 3 and all transfer points are subject to 60.672(e)(1)

Federally Enforceable Conditions:

All federal regulations are federally enforceable. All Air Quality Bureau State regulations are federally enforceable except for the following: affirmative defense portions at 20.2.7.6.B, 20.2.7.110(B)(15), 20.2.7.11 through 20.2.7.113, 20.2.7.115, and 20.2.7.116; 20.2.37; 20.2.42; 20.2.43; 20.2.62; 20.2.63; 20.2.86; 20.2.89; and 20.2.90 NMAC. Federally enforceable means that EPA can enforce the regulation as well as the Air Quality Bureau and federally enforceable regulations can count toward determining a facility's potential to emit (PTE) for the Title V, PSD, and nonattainment permit regulations.

INCLUDE ANY OTHER INFORMATION NEEDED TO COMPLETE AN APPLICABILITY DETERMINATION OR THAT IS RELEVANT TO YOUR FACILITY'S NOTICE OF INTENT OR PERMIT.

EPA Applicability Determination Index for 40 CFR 60, 61, 63, etc: <http://cfpub.epa.gov/adi/>

State Regulations

Applicable state requirements are embodied in the New Mexico SIP, the New Mexico Administrative Code (NMAC), and the terms and conditions of any preconstruction permits issued pursuant to regulations promulgated through rulemaking under Title I of the CAA.

Table for STATE REGULATIONS:

<u>STATE REGU- LATIONS CITATION</u>	Title	Applies? Enter Yes or No	Unit(s) or Facility	JUSTIFICATION: (You may delete instructions or statements that do not apply in the justification column to shorten the document.)
20.2.1 NMAC	General Provisions	Yes	Facility	This regulation is applicable because it establishes procedures for protecting confidential information, procedures for seeking a variance, NMAQB's authority to require sampling equipment, severability, and the effective date for conformance with the NMACs, and prohibits the violation of other requirements in attempting to comply with the NMACs. Although this regulation is applicable, it does not impose any specific requirements.
20.2.3 NMAC	Ambient Air Quality Standards NMAAQs	Yes	Facility	This is a State Implementation Plan (SIP) approved regulation that limits the maximum allowable concentrations of Total Suspended Particulates, Sulfur Compounds, Carbon Monoxide and Nitrogen Dioxide.
20.2.7 NMAC	Excess Emissions	Yes	Facility	This regulation is applicable because it prohibits excess emissions unless proper notification procedures are followed.
20.2.8 NMAC	Emissions Leaving New Mexico	Yes	Facility	This regulation is applicable because it establishes prohibitions on the release of pollutants that cross New Mexico State boundaries.
20.2.14 NMAC	Particulate Emissions from Coal Burning Equipment	No	N/A	This regulation is not applicable because the facility does not burn coal (see 20.2.14.5 NMAC).
20.2.18 NMAC	Oil Burning Equipment - Particulate Matter	No	N/A	This regulation is not applicable because the facility does not burn oil (see 20.2.18.5 NMAC).
20.2.31 NMAC	Coal Burning Equipment – Sulfur Dioxide	No	N/A	This regulation is not applicable because the facility does not burn coal (see 20.2.31.6 NMAC).
20.2.32 NMAC	Coal Burning Equipment – Nitrogen Dioxide,	No	N/A	This regulation is not applicable because the facility does not burn coal (see 20.2.32.6 NMAC).
20.2.33 NMAC	Gas Burning Equipment - Nitrogen Dioxide	No	N/A	This regulation is not applicable because the facility is not equipped with external gas burning equipment which have heat input rates exceeding the trigger level (one million MMBtu/year) established by the regulation (see 20.2.33.108 NMAC).
20.2.34 NMAC	Oil Burning Equipment: NO ₂	No	N/A	This regulation is not applicable because the facility does not burn oil (see 20.2.34.6 NMAC).
20.2.35 NMAC	Natural Gas Processing Plant – Sulfur	No	N/A	This regulation is not applicable because the facility is not a natural gas processing plant (see 20.2.35.6 NMAC).
20.2.38 NMAC	Hydrocarbon Storage Facility	No	N/A	This regulation is not applicable because the facility does not store hydrocarbons containing hydrogen sulfide, nor is there a tank battery storing hydrocarbon liquids with a capacity greater than or equal to 65,000 gallons (see 20.2.38.112 NMAC).
20.2.39 NMAC	Sulfur Recovery Plant - Sulfur	No	N/A	This regulation is not applicable because the facility is not equipped with a sulfur recovery plant (see 20.2.39.6 NMAC).
20.2.61.109 NMAC	Smoke & Visible Emissions	Yes	1-9 10b-16b & 17-19	This regulation is applicable because the facility is equipped with stationary combustion sources. Emissions from these combustion sources are limited to less than 20% opacity (see 20.2.61.109 NMAC). The regulation is not applicable to Title V insignificant heaters (see 20.2.61.111.D NMAC).

<u>STATE REGU- LATIONS</u> CITATION	Title	Applies? Enter Yes or No	Unit(s) or Facility	JUSTIFICATION: (You may delete instructions or statements that do not apply in the justification column to shorten the document.)
20.2.70 NMAC	Operating Permits	Yes	Facility	This regulation is applicable because the facility is a major source of NOx, CO and VOC emissions (see 20.2.70.200 NMAC).
20.2.71 NMAC	Operating Permit Fees	Yes	Facility	This regulation is applicable because the facility is subject to 20.2.70 NMAC (see 20.2.71.6 NMAC).
20.2.72 NMAC	Construction Permits	Yes	Facility	This regulation is applicable because the facility has potential emission rates (PER) greater than 10 pph or 25 tpy for pollutants subject to a state or federal ambient air quality standards (does not include VOCs or HAPs).
20.2.73 NMAC	NOI & Emissions Inventory Requirements	Yes	Facility	The Notice of Intent portion of this regulation is not applicable because the facility is subject to 20.2.72 NMAC. The emissions inventory portion of this regulation is applicable since the facility is a Title V major source (see 20.2.73.300.B(1) & (2)).
20.2.74 NMAC	Permits – Prevention of Significant Deterioration (PSD)	No	N/A	This regulation is not applicable because the facility is not a PSD major source.
20.2.75 NMAC	Construction Permit Fees	Yes	Facility	This regulation is applicable because the facility is subject to 20.2.72 NMAC and it establishes the fee schedule associated with the filing of construction permits (see 20.2.75.6 NMAC).
20.2.77 NMAC	New Source Performance Standards	Yes	3-6 & 9 8 & 19	This regulation is applicable because it adopts by reference the federal NSPS codified in 40 CFR 60 (see 20.2.77.6 NMAC). The facility is subject to 40 CFR 60.
20.2.78 NMAC	Emission Standards for HAPS	No	N/A	This regulation is not applicable because it incorporates by reference the NESHAPs codified under 40 CFR 61 (see 20.2.78.6 NMAC). The facility is not subject to 40 CFR 61.
20.2.79 NMAC	Permits – Nonattainment Areas	No	N/A	This regulation is not applicable because the facility is neither located in nor has a significant impact on a nonattainment area (see 20.2.79.6 NMAC).
20.2.80 NMAC	Stack Heights	Yes	Facility	This regulation is applicable because it establishes guidelines for the selection of an appropriate stack height for the purpose of atmospheric dispersion modeling (see 20.2.80.6 NMAC).
20.2.82 NMAC	MACT Standards for Source Categories of HAPS	No	10a-16a	This regulation is applicable because it adopts by reference the federal MACT Standards for source categories codified in 40 CFR 63 (see 20.2.82.6 NMAC). The facility is subject to 40 CFR 63, Subparts A & HH.

Federal Regulations

Federal standards and requirements are embodied in Title 40 (Protection of the Environment), Subchapter C (Air Programs) of the CFR, Parts 50 through 99.

FEDERAL REGULATIONS APPLICABILITY CHECKLIST

<u>FEDERAL REGU- LATIONS CITATION</u>	Title	Applies? Enter Yes or No	Unit(s) or Facility	JUSTIFICATION:
40 CFR 50	NAAQS	Yes	Facility	This regulation is applicable because it applies to all sources in the state of New Mexico.
40 CFR 52	Approval and Promulgation of Implementation Plans	No	N/A	40 CFR 52.21 <i>Prevention of Significant Deterioration of Air Quality</i> is not applicable because the facility is not a major Prevention of Significant Deterioration source. The remainder of 40 CFR 52 is not applicable because it addresses approval and promulgation of implementation plans.
NSPS 40 CFR 60, Subpart A	General Provisions	Yes	3-6 & 9 8 & 19	This regulation is applicable because the new Waukesha 7044GSI engines (Units 3-6 and 9) will be subject to NSPS JJJJ. Additionally, NSPS OOOOa will apply due to an increase in horsepower at the site. If Units 8 and/or 19 are installed, they may be subject to the subpart.
NSPS 40 CFR 60, Subpart K	Standards of Performance for Storage Vessels for Petroleum Liquids for which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 19, 1978	No	N/A	This regulation is not applicable because the petroleum liquids storage tanks at the facility have capacities less than the minimum applicability threshold capacity of 40,000 gallons (see §60.110(a)).
NSPS 40 CFR 60, Subpart Ka	Standards of Performance for Storage Vessels for Petroleum Liquids for which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984	No	N/A	This regulation is not applicable because the storage tanks at the facility have capacities less than the minimum applicability threshold capacity of 40,000 gallons (see §60.110a(a)).
NSPS 40 CFR 60, Subpart Kb	Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984	No	N/A	This regulation is not applicable because all storage tanks at the facility have capacities less than the minimum applicability threshold capacity of 75 cubic meters (19,812 gallons) or they have a capacity between 75 and 151 cubic meters (40,000 gallons) and store a liquid with a maximum true vapor pressure less than 15.0 kPa (2.2 psi) (see §60.110b(a) & §60.110b(b))).

<u>FEDERAL REGU- LATIONS CITATION</u>	Title	Applies? Enter Yes or No	Unit(s) or Facility	JUSTIFICATION:
NSPS 40 CFR 60, Subpart KKK	Standards of Performance for Equipment Leaks of VOC from Onshore Gas Plants	No	N/A	This regulation is not applicable because the facility is not an onshore natural gas processing plant as defined by the subpart (see §60.630(a)(1)). Natural gas processing plant (gas plant) means any processing site engaged in the extraction of natural gas liquids from field gas, fractionation of mixed natural gas liquids to natural gas products, or both (see §60.631).
NSPS 40 CFR 60, Subpart LLL	Standards of Performance for Onshore Natural Gas Processing: SO ₂ Emissions	No	N/A	This regulation is not applicable because the facility is not a natural gas processing plant as defined by the subpart. It is not equipped with a sweetening unit (see §60.640(a)).
NSPS 40 CFR 60, Subpart IIII	Standards of Performance for Stationary Compression Ignition Internal Combustion Engines	No	N/A	This regulation is not applicable because the facility is not equipped with stationary compression ignition (CI) internal combustion engines (ICE) that commenced construction after July 11, 2005 and were manufactured after April 1, 2006 (see §60.4200(a)(2)(i)). For the purpose of this subpart, construction commences on the date the engine is ordered by the owner or operator (see §60.4200(a)).
NSPS 40 CFR 60, Subpart JJJJ	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines	Yes	3-6 & 9 8 & 19	This regulation is applicable because the facility is equipped with spark ignition (SI) internal combustion engines (ICE) constructed, modified, or reconstructed after June 12, 2006. Units 1-2, 7 & 17-18 were constructed prior to the applicability date and have not been modified or reconstructed. Units 3-6 and 9 will be constructed after the applicability date and will be subject to NSPS JJJJ. If Units 8 and/or 19 are installed, the subpart may become applicable. See the definitions of construction, modification, and reconstruction referenced in Subpart OOOO below.
NSPS 40 CFR 60, Subpart OOOO	Standards of Performance for Crude Oil and Natural Gas Production, Transmission, and Distribution for which Construction, Modification or Reconstruction Commenced After August 23, 2011 and On or Before September 18, 2015	No	N/A	This regulation is not applicable because the facility is not equipped with "affected" sources that commenced construction, modification or reconstruction after August 23, 2011 and on or before September 18, 2015: gas wells, centrifugal or reciprocating compressors, pneumatic controllers, and storage vessels (see §60.5365). Note that the facility is not a natural gas processing plant as defined by the subpart (see §60.5430). Commenced construction means a continuous program of fabrication, erection or installation (see §60.2). Modification means any physical change in or change in the method of operation of an existing facility which increases emissions or results in new emissions (see §60.2). The following, by themselves, are not modifications: routine maintenance, repair or replacement, production increase without capital expenditure, increase in hours of operation, addition of emission controls, or the relocation or change in ownership of an existing facility (see §60.14). Reconstruction means the replacement of components of an existing facility such that the fixed capital cost of the new components exceeds 50 % of the fixed capital cost required to construct a comparable entirely new facility. Fixed capital cost means the capital needed to provide all the depreciable components (see §60.15).

<u>FEDERAL REGU- LATIONS CITATION</u>	Title	Applies? Enter Yes or No	Unit(s) or Facility	JUSTIFICATION:
NSPS 40 CFR 60, Subpart OOOOa	Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After September 18, 2015	Yes	Facility	<p>This regulation is applicable because the facility is equipped with “affected” sources that commenced construction, modification or reconstruction after September 18, 2015: gas wells, centrifugal or reciprocating compressors, pneumatic controllers, storage vessels, sweetening units, pneumatic pumps, and equipment leaks (see §60.5365a).</p> <p>In particular, this regulation applies to fugitive emissions components at the facility due to the increase in horsepower associated with the project. Fugitive components monitoring is required if a compressor station is modified. For the purpose of fugitive components monitoring as required by this subpart, modification of a compressor station is the addition of a compressor or replacement of a compressor with a larger unit (greater total horsepower) (see §60.5365a(j)). Furthermore, the compressors driven by the Waukesha 7044GSI engines will be subject to the rule including periodic rod packing replacements.</p> <p>Note that the facility is not a natural gas processing plant as defined by the subpart (see §60.5430a).</p> <p>See the definitions of construction, modification, and reconstruction referenced in Subpart OOOO above.</p>
NESHAP 40 CFR 61, Subpart A	General Provisions	No	N/A	This regulation is not applicable because no other 40 CFR Part 61 subparts apply (see §61.01(c)).
NESHAP 40 CFR 61, Subpart V	National Emission Standards for Equipment Leaks (Fugitive Emission Sources)	No	N/A	<p>This regulation is not applicable because none of the listed equipment at the facility is in VHAP service.</p> <p>The provisions of this subpart apply to each of the following sources that are intended to operate in volatile hazardous air pollutant (VHAP) service: pumps, compressors, pressure relief devices, sampling connection systems, open-ended valves or lines, valves, connectors, surge control vessels, bottoms receivers, and control devices or systems required by this subpart (see §61.240(a)). VHAP service means a piece of equipment either contains or contacts a fluid (liquid or gas) that is at least 10 percent by weight of VHAP. VHAP means a substance regulated under this subpart for which a standard for equipment leaks of the substance has been promulgated (see §61.241).</p>
MACT 40 CFR 63, Subpart A	General Provisions	Yes	10a-16a	This regulation is applicable because 40 CFR 63, Subpart HH is applicable (see §63.1(b)).

<u>FEDERAL REGU- LATIONS CITATION</u>	Title	Applies? Enter Yes or No	Unit(s) or Facility	JUSTIFICATION:
MACT 40 CFR 63, Subpart HH	National Emission Standards for Hazardous Air Pollutants For Oil and Natural Gas Production Facilities	Yes	10a-16a	<p>This regulation is applicable because the facility is equipped with affected equipment.</p> <p>The facility is an area HAP source as defined by the subpart. Note that since it is a production field facility (located prior to the point of custody transfer), only HAP emissions from glycol dehydration units and storage vessels are aggregated for a major source determination. Storage vessels include crude oil tanks, condensate tanks, intermediate hydrocarbon liquid tanks, and produced water tanks (see §63.761).</p> <p>At area HAP facilities, the regulation is only applicable to dehydrators (see §63.760(b)(2)).</p> <p>The TEG dehydrators are located in an area that is not within an UA plus offset and UC boundary (as defined in §63.761).</p> <p>Under §63.764(e)(1)(ii), the owner or operator of an affected area source [TEG dehydrator] with actual average benzene emissions from the process vent to the atmosphere of less than 0.90 megagrams per year (~1 tpy) is exempt from the operational, recordkeeping and notification requirements in §63.764(d), provided that documentation of the exemption determination is maintained as required in §63.774(d)(1).</p>
MACT 40 CFR 63, Subpart HHH	National Emission Standards for Hazardous Air Pollutants From Natural Gas Transmission and Storage Facilities	No	N/A	<p>This regulation is not applicable because the facility is not a natural gas transmission and storage facility as defined by the subpart.</p> <p>A compressor station that transports natural gas prior to the point of custody transfer or to a natural gas processing plant (if present) are not considered a part of the natural gas transmission and storage source category (see §63.1270(a)).</p>
MACT 40 CFR 63, Subpart ZZZZ	National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE MACT)	Yes	Facility	<p>This regulation is applicable because the facility is equipped with affected reciprocating engines.</p> <p>The station will be a minor HAP source after modification as defined by the subpart. For production field facilities, only HAP emissions from engines, turbines, dehydrators, and storage vessels with the potential for flash emissions are aggregated for the HAP major source determination (see §63.6675).</p> <p>Units 1-2, 7 & 17-18 are 4-stroke, lean burn (4SLB) spark ignition (SI) RICE with a site rating of more than 500 hp and were constructed prior to December 19, 2002. Under §63.6603(a), existing 4SLB stationary RICE with site rating of more than 500 hp located at area HAP sources are subject to work practice standards. If Units 8 & 19 are installed, they may also be subject to work practice standards.</p> <p>Units 3-6 and 9 are 4-stroke rich burn (4SRB) spark ignition RICE and constructed after June 12, 2006. Under §63.6590(c), new or reconstructed stationary RICE located at an area source must meet the requirements of NSPS JJJJ.</p>
MACT 40 CFR 63, Subpart DDDDD	National Emission Standards for Hazardous Air Pollutants for Major Industrial, Commercial, and Institutional Boilers & Process Heaters	No	N/A	<p>This regulation is not applicable both because the facility is an area HAP source as defined by the subpart (see §63.7480) and is not equipped with boilers and process heaters.</p> <p>Since the facility is a natural gas production facility, only HAP emissions from dehydrators and storage vessels with the potential for flash emissions are aggregated for a major source determination (see §63.7575).</p>
MACT 40 CFR 63, Subpart JJJJJJ	National Emission Standards for Hazardous Air Pollutants for Industrial,	No	N/A	<p>This regulation is not applicable because the facility is not equipped with industrial, commercial, or institutional boilers.</p>

<u>FEDERAL REGU- LATIONS</u> CITATION	Title	Applies? Enter Yes or No	Unit(s) or Facility	JUSTIFICATION:
	Commercial, and Institutional Boilers at Area Sources			
40 CFR 64	Compliance Assurance Monitoring	Yes	3-6 & 9	This regulation is applicable because the new Waukesha 7044GSI engines have pre-controlled emissions equal to or exceeding the major source threshold (100 tons per year). (see §64.2(a)). A CAM plan will be submitted as applicable.
40 CFR 68	Chemical Accident Prevention	No	N/A	This regulation is not applicable because the facility does not store any of the identified toxic and flammable substances in quantities exceeding the applicability thresholds (see §68.10(a), §68.115(a), and §68.130 Tables 1-4).
40 CFR 70	State Operating Permit Programs	No	N/A	This regulation is not applicable, as the requirements associated with Title V are delegated to the State of New Mexico and implemented under 20 NMAC 2.70.
40 CFR 82	Protection of Stratospheric Ozone	No	N/A	This regulation is not applicable because the facility does not produce, transform, destroy, import, or export ozone-depleting substances (see §82.1(b).); does not service motor vehicle air conditioning units (see §82.30(b)); and does not sell, distribute, or offer for sale or distribution any product that contains ozone-depleting substances (see §82.64).
40 CFR 98	Mandatory Greenhouse Gas Reporting	Yes	Facility	<p>The regulation is applicable because actual annual CO₂e emissions from the facility are above the thresholds defined in Subpart A, <i>General Provision</i>, Subpart C, <i>General Stationary Fuel Combustion Sources</i>, and, as applicable, Subpart W, <i>Petroleum Oil and Natural Gas Systems</i>. The GHG emissions inventory is reported annually.</p> <p>40 CFR 98, <i>Mandatory Greenhouse Gas Reporting</i>, is a federal requirement that is applicable to facilities that include source categories listed in Subpart A, Table A-3, or to facilities with annual emissions of 25,000 metric tons of CO₂ equivalent (CO₂e) or more in combined emissions from stationary fuel combustion units, miscellaneous uses of carbonate, and all applicable source categories listed in Table A-3 and Table A-4 of Subpart A.</p>

Section 14

Operational Plan to Mitigate Emissions

(Submitting under 20.2.70, 20.2.72, 20.2.74 NMAC)

- ☒ **Title V Sources** (20.2.70 NMAC): By checking this box and certifying this application the permittee certifies that it has developed an **Operational Plan to Mitigate Emissions During Startups, Shutdowns, and Emergencies** defining the measures to be taken to mitigate source emissions during startups, shutdowns, and emergencies as required by 20.2.70.300.D.5(f) and (g) NMAC. This plan shall be kept on site to be made available to the Department upon request. This plan should not be submitted with this application.
- ☒ **NSR** (20.2.72 NMAC), **PSD** (20.2.74 NMAC) & **Nonattainment** (20.2.79 NMAC) **Sources:** By checking this box and certifying this application the permittee certifies that it has developed an **Operational Plan to Mitigate Source Emissions During Malfunction, Startup, or Shutdown** defining the measures to be taken to mitigate source emissions during malfunction, startup, or shutdown as required by 20.2.72.203.A.5 NMAC. This plan shall be kept on site to be made available to the Department upon request. This plan should not be submitted with this application.
- ☒ **Title V** (20.2.70 NMAC), **NSR** (20.2.72 NMAC), **PSD** (20.2.74 NMAC) & **Nonattainment** (20.2.79 NMAC) **Sources:** By checking this box and certifying this application the permittee certifies that it has established and implemented a Plan to Minimize Emissions During Routine or Predictable Startup, Shutdown, and Scheduled Maintenance through work practice standards and good air pollution control practices as required by 20.2.7.14.A and B NMAC. This plan shall be kept on site or at the nearest field office to be made available to the Department upon request. This plan should not be submitted with this application.
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Section 15

Alternative Operating Scenarios

(Submitting under 20.2.70, 20.2.72, 20.2.74 NMAC)

Alternative Operating Scenarios: Provide all information required by the department to define alternative operating scenarios. This includes process, material and product changes; facility emissions information; air pollution control equipment requirements; any applicable requirements; monitoring, recordkeeping, and reporting requirements; and compliance certification requirements. Please ensure applicable Tables in this application are clearly marked to show alternative operating scenario.

Construction Scenarios: When a permit is modified authorizing new construction to an existing facility, NMED includes a condition to clearly address which permit condition(s) (from the previous permit and the new permit) govern during the interval between the date of issuance of the modification permit and the completion of construction of the modification(s). There are many possible variables that need to be addressed such as: Is simultaneous operation of the old and new units permitted and, if so for example, for how long and under what restraints? In general, these types of requirements will be addressed in Section A100 of the permit, but additional requirements may be added elsewhere. Look in A100 of our NSR and/or TV permit template for sample language dealing with these requirements. Find these permit templates at: https://www.env.nm.gov/aqb/permit/aqb_pol.html. Compliance with standards must be maintained during construction, which should not usually be a problem unless simultaneous operation of old and new equipment is requested.

In this section, under the bolded title “Construction Scenarios”, specify any information necessary to write these conditions, such as: conservative-realistic estimated time for completion of construction of the various units, whether simultaneous operation of old and new units is being requested (and, if so, modeled), whether the old units will be removed or decommissioned, any PSD ramifications, any temporary limits requested during phased construction, whether any increase in emissions is being requested as SSM emissions or will instead be handled as a separate Construction Scenario (with corresponding emission limits and conditions, etc).

Not applicable, as there are no alternative operating scenarios at this facility.

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Section 16

Air Dispersion Modeling

- 1) Minor Source Construction (20.2.72 NMAC) and Prevention of Significant Deterioration (PSD) (20.2.74 NMAC) ambient impact analysis (modeling): Provide an ambient impact analysis as required at 20.2.72.203.A(4) and/or 20.2.74.303 NMAC and as outlined in the Air Quality Bureau's Dispersion Modeling Guidelines found on the Planning Section's modeling website. **If air dispersion modeling has been waived for one or more pollutants, attach the AQB Modeling Section modeling waiver approval documentation.**
- 2) SSM Modeling: Applicants must conduct dispersion modeling for the total short term emissions during routine or predictable startup, shutdown, or maintenance (SSM) using realistic worst case scenarios following guidance from the Air Quality Bureau's dispersion modeling section. Refer to "Guidance for Submittal of Startup, Shutdown, Maintenance Emissions in Permit Applications (http://www.env.nm.gov/aqb/permit/app_form.html) for more detailed instructions on SSM emissions modeling requirements.
- 3) Title V (20.2.70 NMAC) ambient impact analysis: Title V applications must specify the construction permit and/or Title V Permit number(s) for which air quality dispersion modeling was last approved. Facilities that have only a Title V permit, such as landfills and air curtain incinerators, are subject to the same modeling required for preconstruction permits required by 20.2.72 and 20.2.74 NMAC.

What is the purpose of this application?	Enter an X for each purpose that applies
New PSD major source or PSD major modification (20.2.74 NMAC). See #1 above.	
New Minor Source or significant permit revision under 20.2.72 NMAC (20.2.72.219.D NMAC). See #1 above. Note: Neither modeling nor a modeling waiver is required for VOC emissions.	X

Check each box that applies:

- ☐ See attached, approved modeling **waiver for all** pollutants from the facility.
- ☒ See attached, approved modeling **waiver for some** pollutants from the facility.
- ☐ Attached in Universal Application Form 4 (UA4) is a **modeling report for all** pollutants from the facility.
- ☐ Attached in UA4 is a **modeling report for some** pollutants from the facility.
- ☐ No modeling is required.

This section contains an air quality dispersion modeling report for the proposed Waukesha 7044GSI compressor engines at the 32-8#2 Central Delivery Point. The modeling was performed in accordance with NMAQB procedures and requirements and demonstrates that the facility emissions do not cause or contribute to any exceedance of any ambient air quality standard for nitrogen dioxide (NO₂), carbon monoxide (CO), particulate matter less than 10 microns in diameter (PM₁₀) and particulate matter less than 2.5 microns in diameter (PM_{2.5}). The NMAQB granted a request for waiver from dispersion modeling of volatile organic compounds (VOC) and sulfur dioxide (SO₂) emissions.

Air Dispersion Modeling Report

Harvest Four Corners, LLC

32-8#2 Central Delivery Point

Introduction

This report documents the dispersion modeling techniques used to assess air quality impacts from the Harvest Four Corners, LLC (H4C) 32-8#2 Central Delivery Point (CDP). The analysis evaluates compliance with applicable National Ambient Air Quality Standards (NAAQS), New Mexico Ambient Air Quality Standards (NMAAQs) and allowable Prevention of Significant Deterioration (PSD) increment consumption. Nitrogen dioxide (NO₂), carbon monoxide (CO), particulate matter less than 10 microns in diameter (PM₁₀), and particulate matter less than 2.5 microns in diameter (PM_{2.5}) impacts from the facility are evaluated.

The analysis is conducted in accordance with the approved protocol, dated April 11, 2022 and the *New Mexico Air Quality Bureau Air Dispersion Modeling Guidelines, Revised October 26, 2020*.

The analysis demonstrates emissions from the 32-8#2 CDP will not cause or contribute to an exceedance of the applicable federal and state standards.

Applicant and Consultant Information

Applicant information is as follows:

Applicant: Harvest Four Corners, LLC
Facility: 32-8#2 CDP
Current Permit: 1033-M5-R9, dated December 1, 2021

Consultant information is as follows:

Company: EcoLogic Environmental Consultants, LLC
Contact: Walter Konkel
Phone Number: 805-964-7597
Email: wkonkel@ellogicllc.com

Facility Operations and Description

The 32-8#2 CDP is equipped to compress natural gas. The air quality permit approves operation of the following emission sources: twelve Waukesha 7042GL natural gas-fired compressor engines (Units 1-9 and 17-19) and seven triethylene glycol dehydrators (Units 10-16). The proposed modifications in the application affecting NO_x, CO, PM₁₀ and PM_{2.5} emissions will be to replace five Waukesha 7042GL natural gas-fired compressor engines (Units 3-6 and 9) with five Waukesha 7044GSI natural gas-fired compressor engines (Units 3-6 and 9). The new compressor engines will be equipped with catalysts to control NO_x, CO and VOC emissions and there will be an emissions decrease associated with the project. After the proposed modifications, the following NO_x, CO, PM₁₀ and PM_{2.5} sources will be permitted to operate at the facility: seven Waukesha 7042GL natural gas-fired compressor engines, five Waukesha 7044GSI natural gas-fired compressor engines, and seven triethylene glycol dehydrators.

The facility is located in Section 27, Range 8 West, Township 32 North at approximately 262,880 meters Easting, 4,093,425 meters Northing, Zone 13, North American Datum 1983 (NAD83), at an elevation of approximately 6,720 feet above mean sea level. The facility is located in a rural area of San Juan County.

Air Quality Standards

Table 1 identifies the applicable significant impact levels (SIL), NAAQS and NMAAQs:

Table 1
SIL, NAAQS and NMAAQs

Pollutant	Averaging Period	SIL ($\mu\text{g}/\text{m}^3$)	NAAQS ($\mu\text{g}/\text{m}^3$)	NMAAQs ($\mu\text{g}/\text{m}^3$)
NO ₂	1-Hour	7.52	188.03	--
NO ₂	Annual	1.0	99.66	94.02
CO	1-Hour	2,000	40,069.6	14,997.5
CO	8-Hour	500	10,303.6	9,960.1
PM ₁₀	Annual	1.0	---	---
PM ₁₀	24-Hour	5.0	150	---
PM _{2.5}	Annual	0.2	12	---
PM _{2.5}	24-Hour	1.2	35	---

The high-eighth-high daily maximum 1-hour NO₂ concentration is used to evaluate compliance with the NAAQS. Demonstration of compliance with 1-hour NO₂ standard is automatically a demonstration of compliance with the 24-hour NMAAQs; therefore, modeling of the 24-hour NO₂ standard was not performed.

The CO NAAQS are not to be exceeded more than once per year. The CO NMAAQs are not to be exceeded. Therefore, compliance with the CO NMAAQs will demonstrate compliance with the CO NAAQS.

PM_{2.5} emission rates were modeled as equal to PM₁₀ emission rates; therefore, the PM_{2.5} NAAQS demonstration will satisfy the requirement for demonstration of compliance with PM₁₀ NAAQS.

The facility is located in Air Quality Control Region 014, an attainment area for all pollutants; therefore, non-attainment modeling impacts will not be considered.

The 32-8#2 CDP will continue to be a PSD minor source (permitted NO₂, VOC, SO₂ and particulate emissions will not exceed 250 tons per year). Table 2 identifies the allowable increment.

Table 2
Allowable PSD Increment

Pollutant	Averaging Period	Area Type	Allowable Increment ($\mu\text{g}/\text{m}^3$)
NO ₂	Annual	Class II	25
PM ₁₀	Annual	Class II	17
PM ₁₀	24-Hour	Class II	30

As there are no Class I areas located within 50 kilometers of the 32-8#2 CDP, the modeling of PSD increment consumption at nearby Class I areas is not included in this analysis.

Dispersion Model

Both significant and cumulative impact modeling was conducted using the latest version of the AMS/EPA Regulatory Model (AERMOD). The Beeline Software BEEST for Windows modeling manager was used to prepare the input files and manage processing. Environmental Protection Agency (EPA) recommended defaults were used. As the station is in a rural area, urban area modeling was not conducted.

Facility Sources

The following 32-8#2 CDP sources were included in the modeling evaluation: seven Waukesha 7042GL natural gas-fired reciprocating engines (Units 1-2, 7-8 and 17-19) and five Waukesha 7044GSI natural gas-fired reciprocating engines (Units 3-6 and 9).

Modeling was conducted using emission rates calculated from manufacturer's data as identified in the application. All engines were modeled using the NO_x, CO, PM₁₀ and PM_{2.5} pound per hour emission rates identified in the permit application. All sources were assumed to operate 8,760 hours per year. Modeling was conducted using stack parameters provided by the manufacturer and H4C, as identified in the application.

There are no startup, shutdown and maintenance (SSM) emissions associated with the emission sources.

Significant impact modeling was conducted using the five new Waukesha 7044GSI natural gas-fired reciprocating engines. The NAAQS and NMAAQs cumulative impact modeling was conducted using all reciprocating engines at the site.

PSD increment consumption modeling was conducted using all facility sources, as they will all be installed after the AQCR 014 NO₂ and PM₁₀ minor source baseline dates. PM_{2.5} increment consumption modeling was not performed as the minor source baseline date has not yet been established for AQCR 014.

The location of the station and sources were identified from the facility plot plan provided in Section 5 of the application. The coordinate system used to reference both source and receptor locations was of the Universal Transverse Mercator (UTM) convention (NAD83).

The modeled 32-8#2 CDP source locations, parameters, and emission rates are provided in Table 7 at the end of this report. A plot showing the locations of the modeled sources in relation to the fence line and structures is provided as Figure 1 at the end of this report.

Neighboring Sources

Neighboring sources were provided by the NMAQB. Contrary to the written protocol, and discussed with Eric Peters of the NMAQB, only New Mexico emission sources located within 25 kilometers of the 32-8#2 CDP were included in the dispersion modeling analyses. This was deemed acceptable given the magnitude of modeled impacts. Further discussion on neighboring sources is provided later in this report.

Tables 8 and 9 provided with this report identify the modeled neighboring source locations, parameters and emission rates.

Receptor Selection

A Cartesian grid with variable receptor spacing was used to evaluate significant impacts around the facility. The grid contained receptors with 50-meter spacing along the fence line and from the fence line out to at least 500 meters, 100-meter spacing from the 500 meters beyond the fence line out to at least 1,000 meters, and 500-meter spacing from 1,000 meters beyond the fence line out to at least 3,000 meters. In order to fully define the 1-hour NO₂ SIA, a few additional lines of receptors with 1,000 meter spacing were placed to the west of the receptor grid defined above.

NOTE: During the cumulative impact modeling, it was determined there were many NO₂ 1-hour average impacts greater than seventy-five percent of the standard located in portions of the receptor grid with 500-meter spacing. As a result, the NO₂ 1-hour average cumulative impact modeling included many areas of 50-meter receptor spacing to ensure the modeled high values were identified.

Cumulative impact modeling was conducted using all receptors from the grid defined in the paragraphs above for which there were significant impacts.

The coordinate system used to reference receptor locations was of the UTM convention (NAD83). Terrain elevation data were obtained from the most recent United States Geological Survey National Elevation Dataset (NED) data with 1/3 arc-second resolution. The AERMOD Terrain Preprocessor (AERMAP) was used to calculate the receptor elevations and terrain maximums. The domain used to calculate terrain maximums was sufficient to identify all terrain nodes that create a slope greater than or equal to 10 percent.

Building Downwash

The EPA Building Profile Input Program-Prime (BPIP-Prime) was used to evaluate structures for building downwash impacts. All structures close enough (of sufficient height and/or width) to produce downwash effects from the stacks were included in the evaluation.

A plot showing the locations of the structures in relation to the sources and fence line is provided as Figure 1 at the end of this report. The structure heights, elevations and locations are provided in Table 10 on the CD provided with this report. The BPIP-Prime input and output files are also available on the CD.

Meteorological Data

Modeling was conducted using Bloomfield meteorological data collected during 2015-2019. The data were obtained from the NMAQB web site. The profile base elevation was set at 1,713 meters above mean sea level.

The 32-8#2 CDP is located on a mesa, oriented, in general, along a line from southwest to northeast. To the north through northeast, the terrain rises. To the southwest, the terrain drops into Jaquez Canyon. Albino Canyon, in general, flows down to the east and southeast. Jaquez Canyon, in general, flows down to the southwest. Much of the terrain to the north of the station has an elevation higher than the area immediately surrounding the station. It is assumed the Jaquez and Albino Canyons are the predominant features affecting wind flow in the area.

Three meteorological data sets were evaluated for use with the modeling analysis: Bloomfield data, Farmington data and Navajo Lake data. The criteria used to select the appropriate meteorological data set are as follows:

- A wind rose plot of the 2015-2019 Bloomfield meteorological data shows predominant flows from the north, west through southwest, and east-northeast. While this data is not ideal, it seems to have the most flow running in the general direction of the nearby canyons (west, west-southwest, southwest, north and north-northeast). The predominant moderate west and east-northeast flows as well as light northerly flow seem to best represent the terrain surrounding the facility.
- A wind rose plot of the 2011-2015 Farmington meteorological data show predominant flows from the west and east. The Farmington data was collected at the airport which sits on top of a small mesa (similar in some respects to the 32-8#2 CDP); however, the Farmington data lack the northerly flow one would expect in the vicinity of the facility.
- A wind rose plot of the 2015-2016 Navajo Lake meteorological data show predominant flows from the east and west only. The Navajo Lake data lack the northerly drainage flow one would expect in the vicinity of the facility.

NO_x to NO₂ Conversion

NO_x impacts were converted to NO₂ impacts using the Ambient Ratio Method 2 (ARM2). ARM2 provides estimates of representative equilibrium ratios of NO₂/NO_x based on ambient levels of NO₂ and NO_x derived from national data from the EPA's Air Quality System. The national defaults for ARM2 were used including a minimum ambient NO₂/NO_x ratio of 0.5 and a maximum ambient NO₂/NO_x ratio of 0.9.

Methodology

The modeling was conducted in accordance with this protocol and the *New Mexico Air Quality Bureau Air Dispersion Modeling Guidelines, Revised October 26, 2020*. First, NO₂, CO, PM₁₀ and PM_{2.5} emissions from the five new 32-8#2 CDP compressor engines were modeled to determine the SIA.

CO and PM₁₀ Impacts

As CO 1-hour and 8-hour average impacts and PM₁₀ 24-hour and annual impacts were all less than the SILs, no additional CO and PM₁₀ modeling was conducted.

NO₂ Impacts

As NO₂ 1-hour and annual average impacts exceeded the SILs, cumulative NO₂ impacts for comparison with the NAAQS and NMAAQs were determined. NO₂ 1-hour average impacts were determined using all 32-8#2 CDP sources plus refined background concentrations. Rather than using the Navajo Lake 98th percentile 1-hour concentration of 52.1 µg/m³, refined background concentrations were developed and used as described in Section 4.4.1 of the *New Mexico Air Quality Bureau Air Dispersion Modeling Guidelines, Revised October 26, 2020*. From the geographically nearest (Navajo Lake) full set of monitoring data, the maximum one-hour concentration that occurs during each hour of the day for each month was determined. This resulted in twelve different 24-hour profiles that were repeated for the entire month that each represents. The most recent, complete three years of data were used (2018-2020) and the three values for each month were averaged and used for the background. As discussed with Eric Peters of the NMAQB, 2021 data were not used as they are incomplete (data available only for January – June). The refined 1-hour NO₂ background concentrations were converted from ppb to µg/m³ using the equation found in Section 2.5.2 of the *New Mexico Air Quality Bureau Air Dispersion Modeling Guidelines, Revised October 26, 2020*. The 1-hour NO₂ refined background concentrations are available on the CD included with the permit application.

Where NO₂ annual average cumulative impacts from 32-8#2 CDP sources and monitored background concentration exceeded the NAAQS, NMAAQs or PSD increment, cumulative impacts were determined using 32-8#2 CDP sources plus neighboring sources.

PM_{2.5} Impacts

As PM_{2.5} 24-hour and annual average impacts exceeded the SILs, cumulative PM_{2.5} impacts for comparison with the NAAQS and NMAAQs were determined. PM_{2.5} 24-hour and annual average impacts were determined using all 32-8#2 CDP sources, neighboring sources plus a representative background concentration.

Results

Significant Impact Area Modeling

SIA modeling was conducted using only the five new 32-8#2 CDP compressor engines. Two model runs were required, one for annual NO₂, 1-hour and 8-hour CO and annual PM₁₀ (for evaluating impacts for each year of meteorological data). Another SIA model run was performed for 1-hour NO₂, 24-hour PM₁₀ and 24-hour and

annual PM_{2.5} (for evaluating impacts averaged over five years). For all short-term averages, the SIA were determined using first-high impacts.

The NO₂ SIA for 1-hour average impacts extended out approximately 12.4 km from the center of the station. The largest NO₂ SIA for annual average impacts extended out approximately 1,600 meters from the center of the station and was associated with the 2019 meteorological data.

The PM_{2.5} SIA for 24-hour average impacts extended out approximately 200 meters from the center of the station. The PM_{2.5} SIA for annual average impacts extended out approximately 175 meters from the center of the station.

There were no significant CO or PM₁₀ impacts. The highest modeled high-first-high CO 1-hour average impact was 326.02 µg/m³ and the highest modeled high-first-high CO 8-hour average impact was 192.66 µg/m³. These concentrations occurred during 2019. The highest modeled high-first-high PM₁₀ 24-hour average impact was 3.88 µg/m³ and the highest modeled PM_{2.5} annual average impact was 0.41 µg/m³. The highest modeled PM_{2.5} annual average impact occurred during 2017.

Isopleths plots of the NO₂ and PM_{2.5} significant impact areas are provided in Figures 2-9 at the end of this report.

Cumulative Impact Modeling (NAAQS and NMAAQS)

To evaluate compliance with the NAAQS and NMAAQS, cumulative NO₂ impacts were determined using 32-8#2 CDP sources and background concentrations. Refined 1-hour NO₂ background concentrations were used for the 1-hour NO₂ compliance demonstration as described above. The modeled 1-hour high impacts are summarized in Table 3 below. The identified 1-hour average impact is the modeled high-eighth-high daily maximum 1-hour NO₂ concentration at the indicated receptor.

Table 3
Cumulative 1-Hour NO₂ Impacts (NAAQS and NMAAQS)

Pollutant	Location UTMX (m)	Location UTMY (m)	Modeled H8H 1-hour Impact (µg/m ³)	Modeled H8H 1-hour Impact + Background (µg/m ³)	NAAQS (µg/m ³)	Percent of NAAQS (%)	NMAAQS (µg/m ³)
NO ₂	262,650	4,093,750	149.58	180.39	188	96.0	---

During the cumulative impact modeling, it was determined there were many NO₂ 1-hour average impacts greater than seventy-five percent of the standard located in portions of the receptor grid with 500-meter spacing. As a result, the NO₂ 1-hour average cumulative impact modeling included many areas of 50-meter receptor spacing to ensure the modeled high values were identified.

The modeled annual average NO₂ impacts are summarized in Table 4 below. The Navajo Lake annual average NO₂ concentration of 11 µg/m³ was used for the NAAQS and NMAAQS compliance demonstration.

Table 4
Cumulative Annual Average NO₂ Impacts (NAAQS and NMAAQS)

Pollutant	Year	Location UTMX (m)	Location UTMY (m)	Modeled Annual Average Impact (µg/m ³)	Modeled Annual Impact + Background (µg/m ³)	NAAQS (µg/m ³)	NMAAQS (µg/m ³)	Percent of NMAAQS (%)
NO ₂	2015	262,795.50	4,093,406.30	10.49	21.49	100	94.02	22.9
NO ₂	2016	263,000.00	4,093,400.00	10.86	21.86	100	94.02	23.3
NO ₂	2017	262,879.30	4,093,355.10	17.72	28.72	100	94.02	30.5
NO ₂	2018	263,000.00	4,093,400.00	11.78	22.78	100	94.02	24.2
NO ₂	2019	263,000.00	4,093,400.00	12.00	23.00	100	94.02	24.5

The highest modeled annual NO₂ impacts occurred at the facility fenceline or within several hundred meters of the fenceline; therefore, additional model runs were not needed to ensure the modeled high values were identified.

To evaluate compliance with the NAAQS and NMAAQS, cumulative PM_{2.5} impacts were determined using 32-8#2 CDP sources, neighboring sources and background concentrations. Annual and 24-hour PM_{2.5} concentrations of 4.19 µg/m³ and 11.77 µg/m³ were used in the NAAQS and NMAAQS compliance demonstration. As discussed with Eric Peters, all New Mexico PM_{2.5} sources within 25 km of the 32-8#2 CDP were included in the modeling. Colorado sources were not included in the PM_{2.5} cumulative modeling. The highest modeled PM_{2.5} impacts are well below the applicable standards and occurred within several hundred meters of the facility; therefore, it is reasonable to conclude inclusion of Colorado sources in the cumulative modeling will not result in an exceedance of applicable standards. The modeled 24-hour and annual high impacts are summarized in Table 5 below. The identified 24-hour average impact is the modeled high-eighth-high PM_{2.5} concentration at the indicated receptor.

Table 5
Cumulative 24-Hour and Annual PM_{2.5} Impacts (NAAQS and NMAAQS)

Pollutant	Averaging Period	Location UTMX (m)	Location UTMY (m)	Modeled Impact (µg/m ³)	Modeled Impact + Background (µg/m ³)	NAAQS (µg/m ³)	Percent of NAAQS (%)	NMAAQS (µg/m ³)
PM _{2.5}	24-Hour	263,000.00	4,093,400.00	1.74	13.51	35	38.6	---
PM _{2.5}	Annual	263,000.00	4,093,400.00	0.54	4.73	12	39.4	---

The highest modeled 24-hour and annual PM_{2.5} impacts occurred at the facility fenceline; therefore, additional model runs were not needed to ensure the modeled high values were identified.

Cumulative Impact Modeling (PSD Increment)

To evaluate compliance with allowable PSD increment consumption, cumulative NO₂ impacts were initially determined using all 32-8#2 CDP sources and background concentrations. As shown in Table 4 above, this method demonstrates compliance with the allowable PSD increment consumption for all years modeled except 2017. For 2017, cumulative NO₂ impacts were determined using all 32-8#2 CDP sources and all increment consuming neighboring New Mexico sources located within 25 km of the station. Although the 32-8#2 CDP is located within 5 km of the Colorado border, nearby Colorado sources were not included in the PSD increment consumption modeling as discussed with Eric Peters. Inclusion of nearby New Mexico sources in the modeling resulted in an increase of less than 1 µg/m³ to the 32-8#2 CDP modeled concentration. As such, it is highly unlikely inclusion of Colorado sources within 25 km of 32-8#2 CDP would result in an exceedance of the PSD increment limit.

The modeled high impacts and a comparison with allowable PSD increment consumption are identified in Table 6 below.

Table 6
Cumulative NO₂ Impacts (PSD Increment)

Pollutant	Year	Location UTMX (m)	Location UTM Y (m)	Modeled Annual Average Impact (µg/m ³)	Allowable Increment (µg/m ³)	Percent of Increment (%)
NO ₂	2015	262,795.50	4,093,406.30	21.49 ¹	25	86.0
NO ₂	2016	263,000.00	4,093,400.00	21.86 ¹	25	87.4
NO ₂	2017	262,879.30	4,093,355.10	18.64 ²	25	74.6
NO ₂	2018	263,000.00	4,093,400.00	22.78 ¹	25	91.1
NO ₂	2019	263,000.00	4,093,400.00	23.00 ¹	25	92.0

¹ – Total impact based on 32-8#2 CDP sources plus annual background concentration

² – Total impact based on 32-8#2 CDP sources and surrounding New Mexico increment consuming sources.

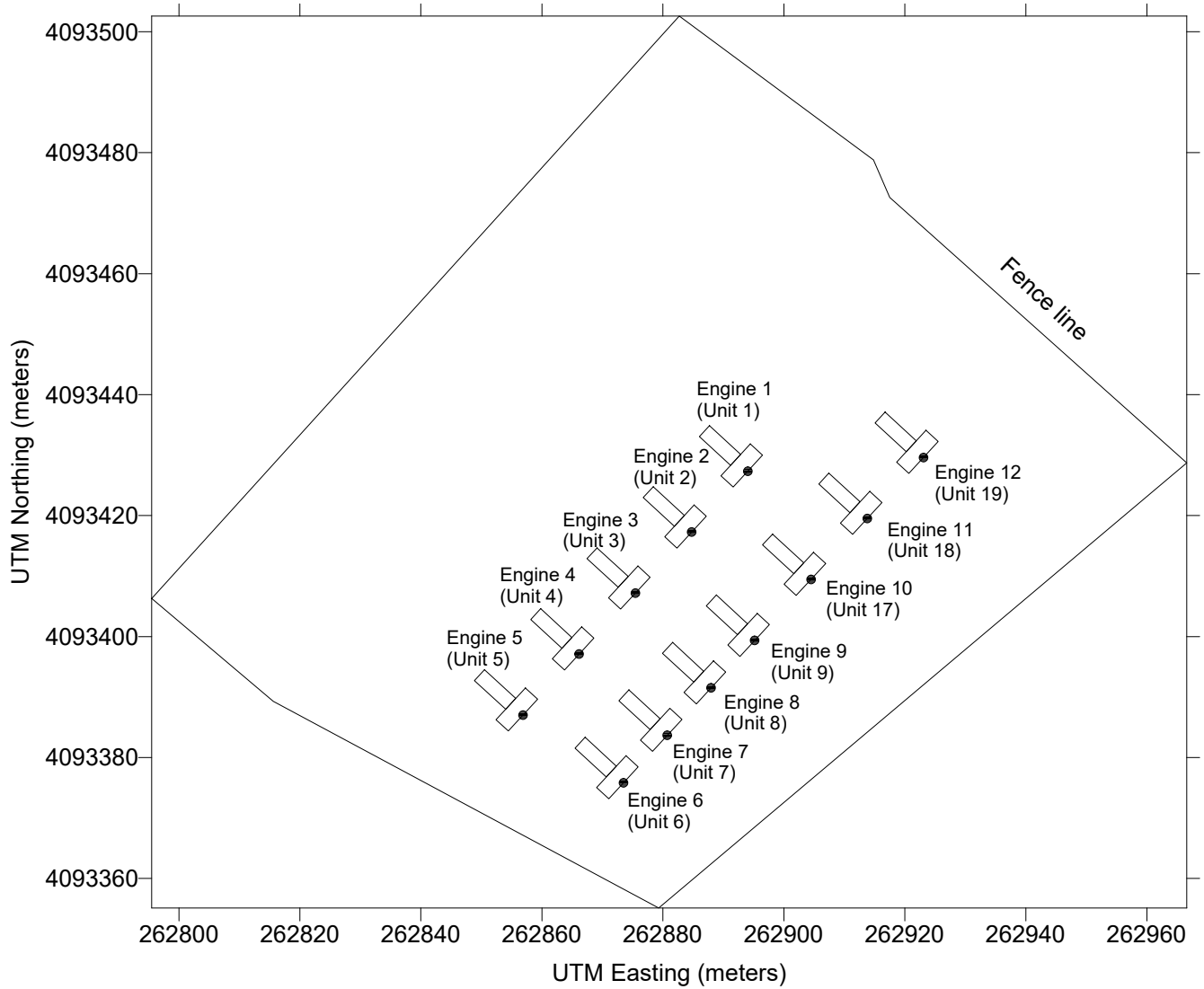
The highest modeled annual NO₂ impacts occurred at the facility fenceline or within several hundred meters of the fenceline; therefore, additional model runs were not needed to ensure the modeled high values were identified.

All model input and output files are available on the CD provided with this report. The README.TXT file (on the CD) identifies the contents of each zipped file.

Summary/Conclusions

The analysis demonstrates NO₂, CO, PM₁₀ and PM_{2.5} emissions from the 32-8#2 CDP will not cause or contribute to an exceedance of the applicable federal and state standards. The modeling requirements are satisfied and a permit can be issued.

Harvest Four Corners, LLC
32-8#2 Central Delivery Point
Facility Modeled Layout

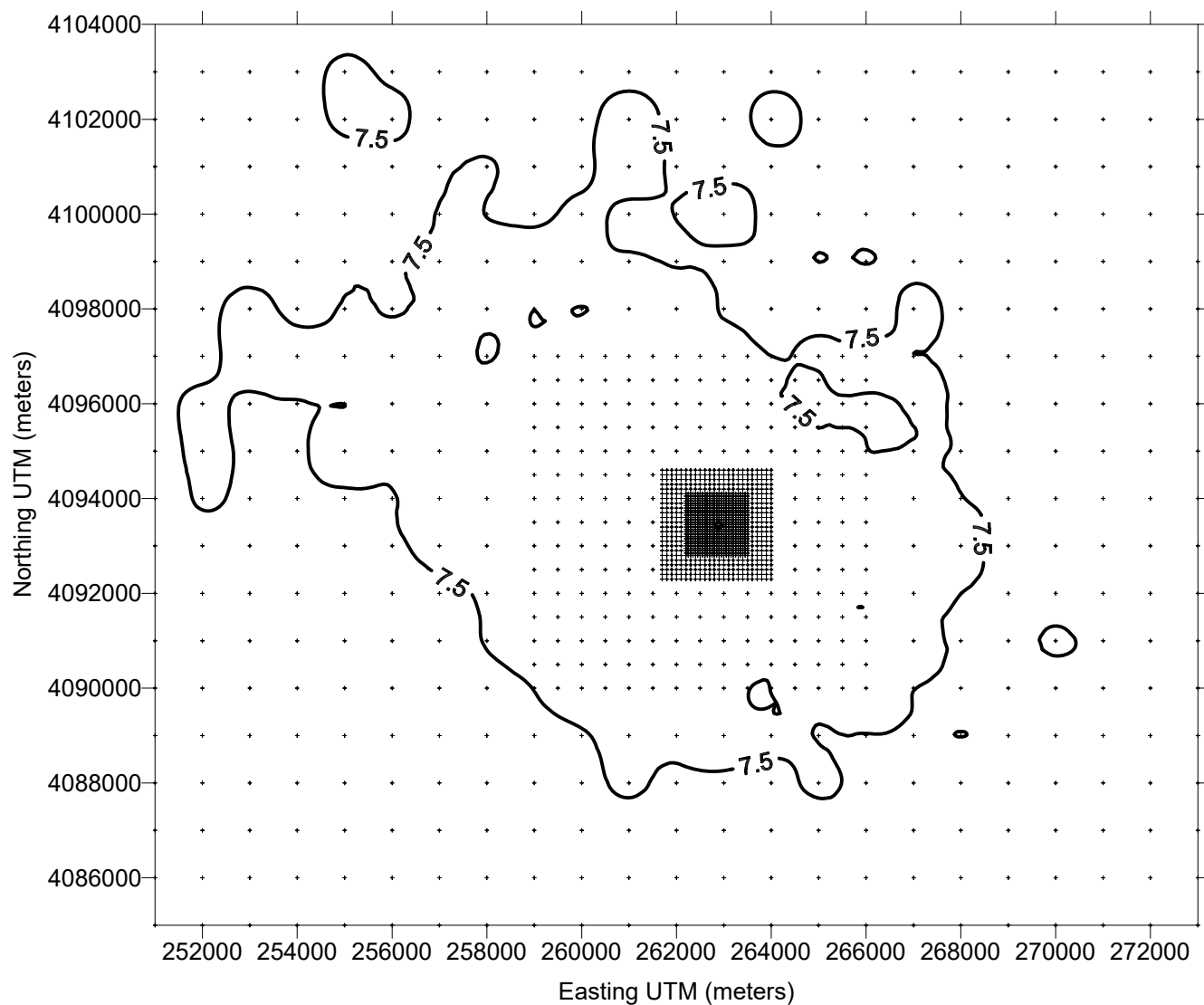


Universal Transverse Mercator Coordinates, Zone 13, NAD83

Figure 1

Harvest Four Corners, LLC – 32-8#2 Central Delivery Point
Isopleth Plot of AERMOD Output

NO₂ Significant Impacts
Maximum 1st-Highest 1-Hour Impacts Averaged Over Five Years
2015-2019 Bloomfield Meteorological Data

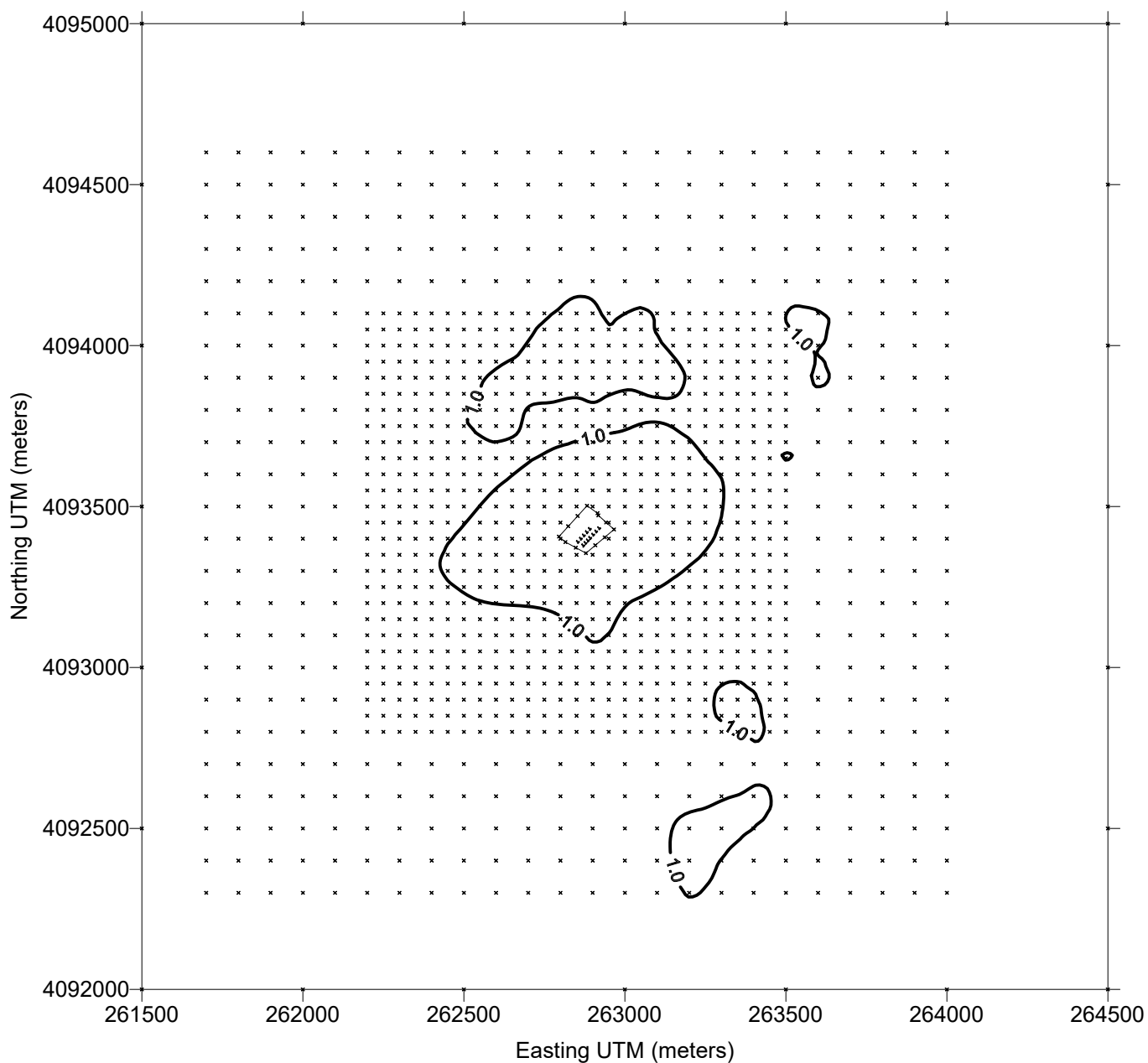


Isopleths In Micrograms Per Cubic Meter
Universal Transverse Mercator Coordinates, Zone 13, NAD83

Figure 2

Harvest Four Corners, LLC – 32-8#2 Central Delivery Point
Isopleth Plot of AERMOD Output

NO₂ Significant Impacts
Annual Average Impacts
2015 Bloomfield Meteorological Data

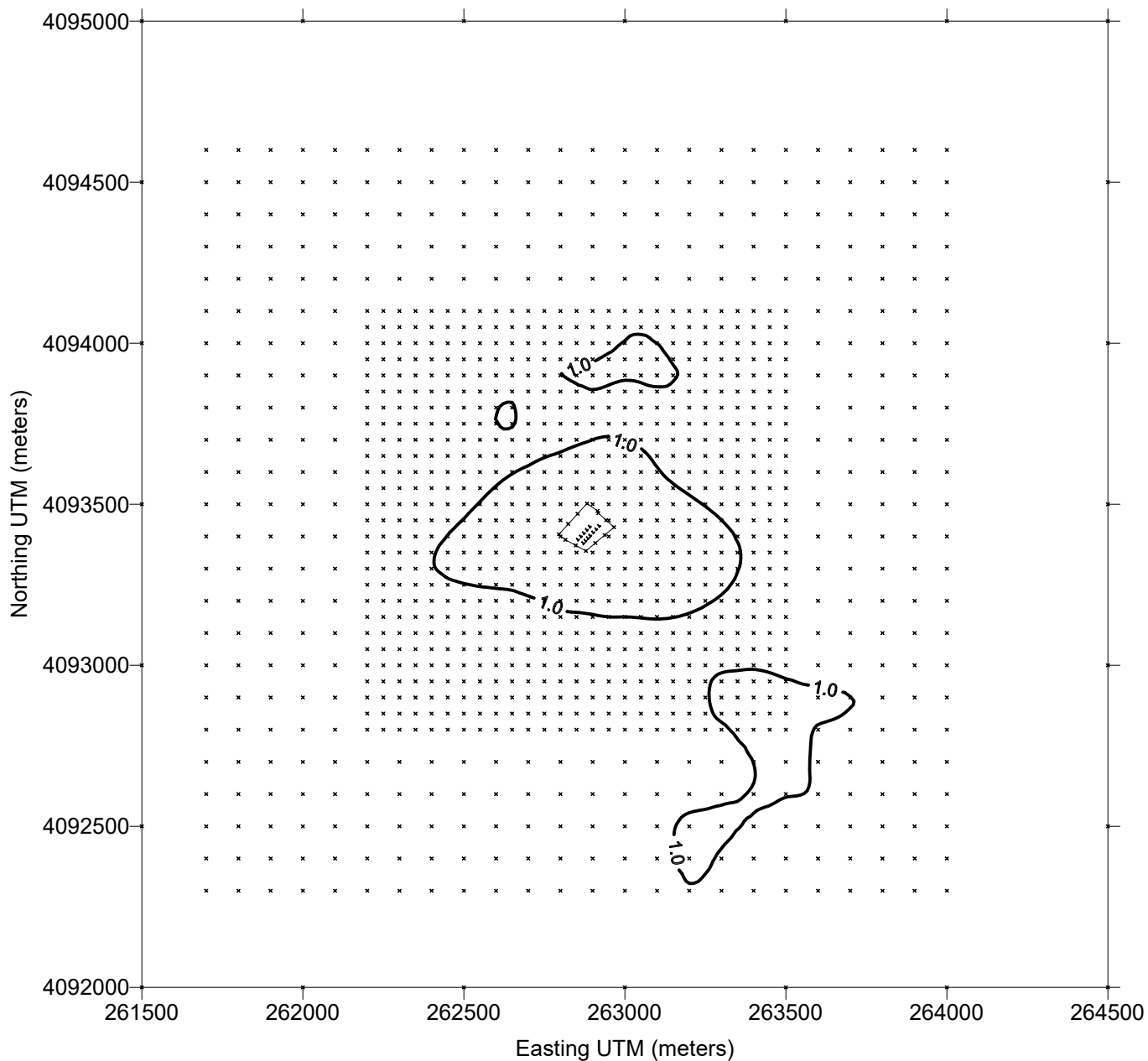


Isopleths In Micrograms Per Cubic Meter
Universal Transverse Mercator Coordinates, Zone 13, NAD83

Figure 3

Harvest Four Corners, LLC – 32-8#2 Central Delivery Point
Isopleth Plot of AERMOD Output

NO₂ Significant Impacts
Annual Average Impacts
2016 Bloomfield Meteorological Data

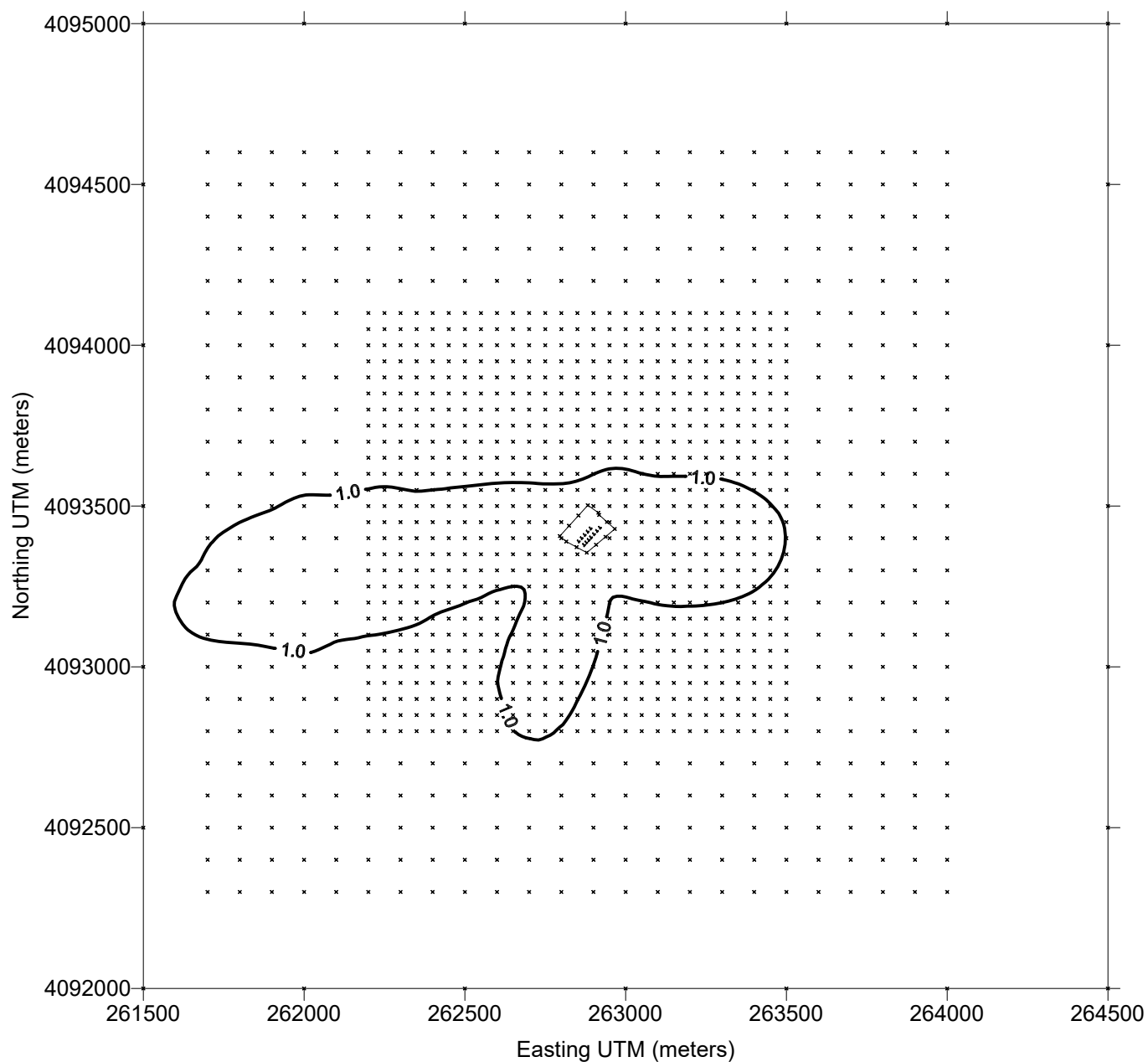


Isopleths In Micrograms Per Cubic Meter
Universal Transverse Mercator Coordinates, Zone 13, NAD83

Figure 4

Harvest Four Corners, LLC – 32-8#2 Central Delivery Point
Isopleth Plot of AERMOD Output

NO₂ Significant Impacts
Annual Average Impacts
2017 Bloomfield Meteorological Data

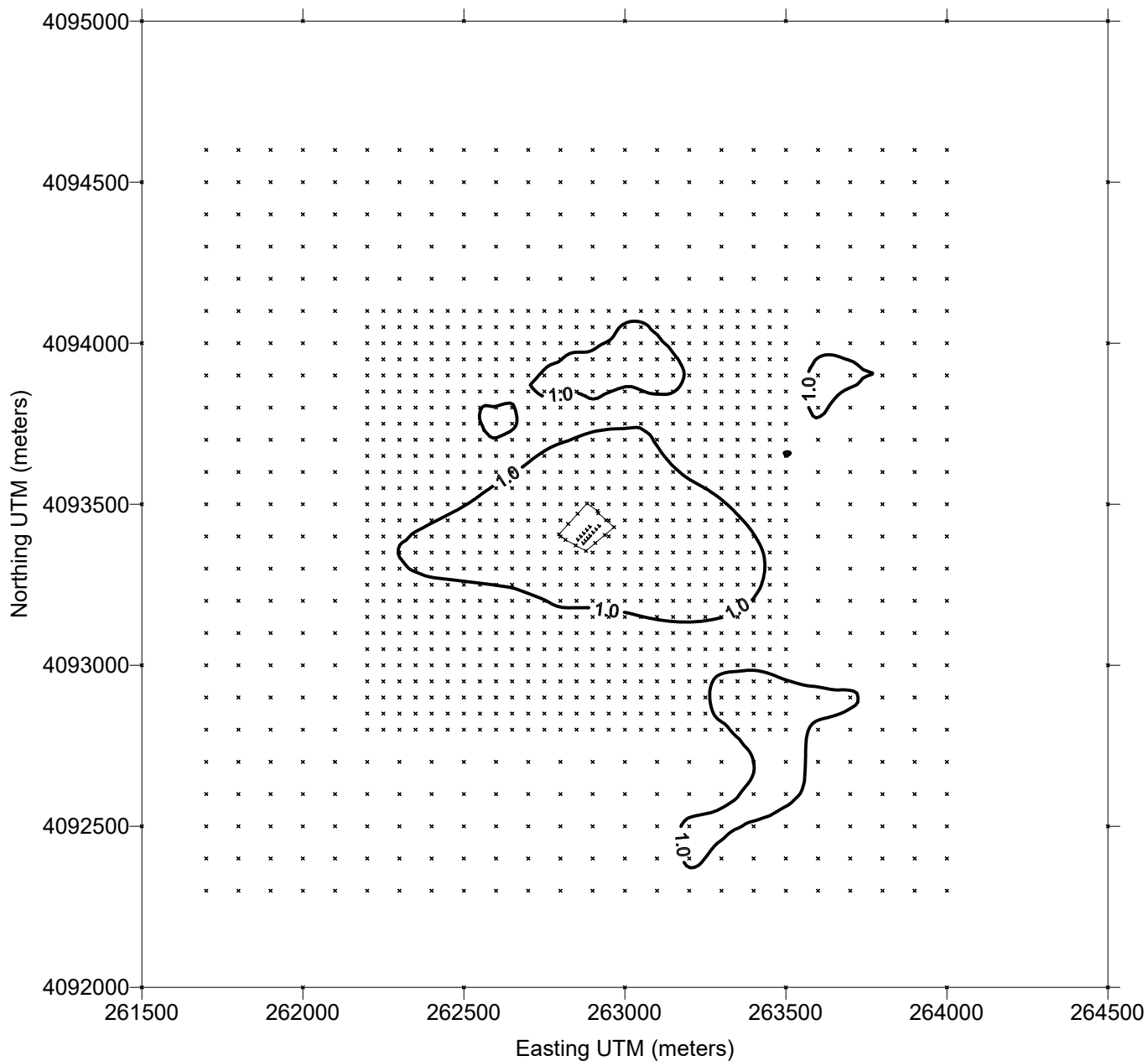


Isopleths In Micrograms Per Cubic Meter
Universal Transverse Mercator Coordinates, Zone 13, NAD83

Figure 5

Harvest Four Corners, LLC – 32-8#2 Central Delivery Point
Isopleth Plot of AERMOD Output

NO₂ Significant Impacts
Annual Average Impacts
2018 Bloomfield Meteorological Data

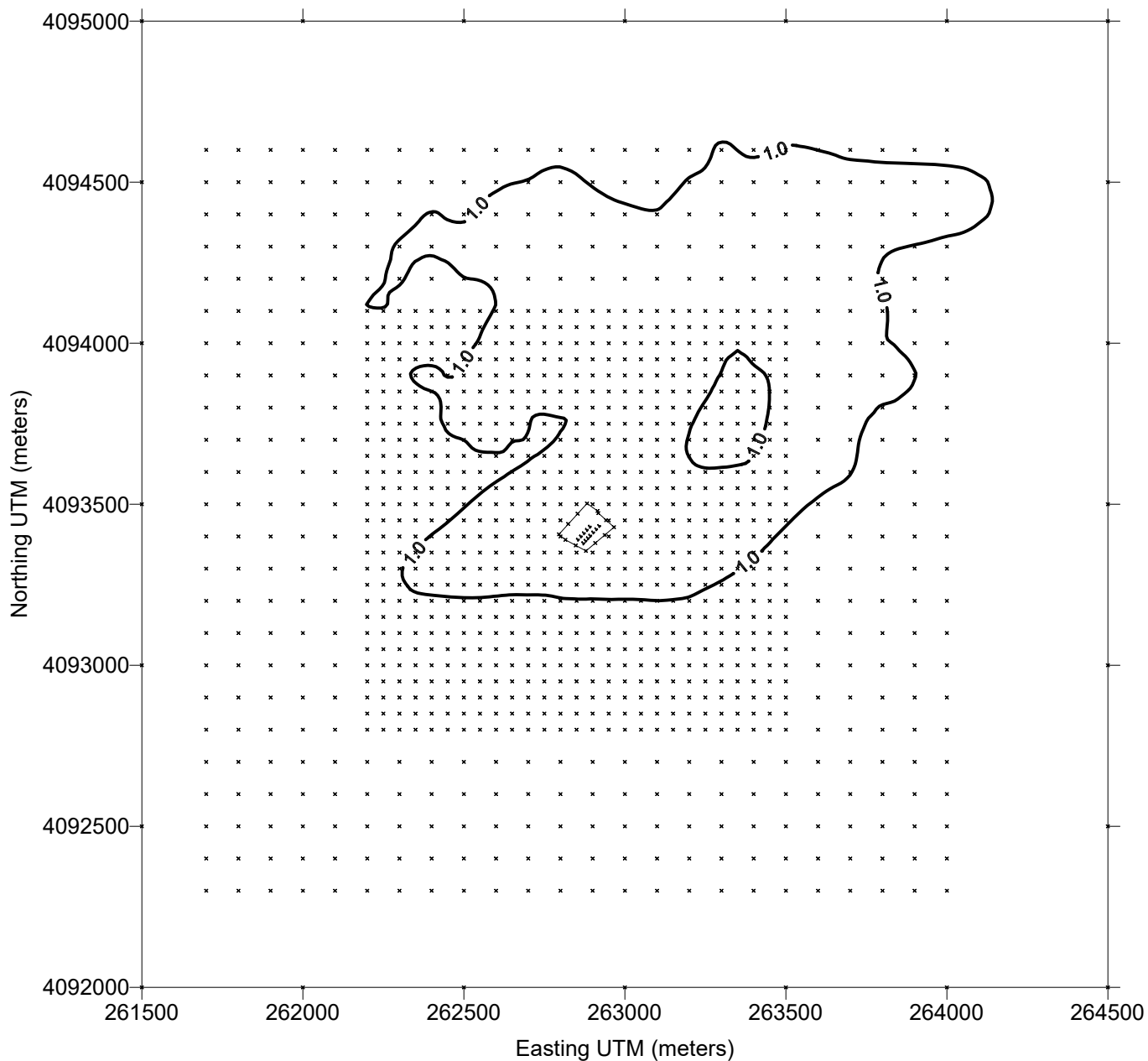


Isopleths In Micrograms Per Cubic Meter
Universal Transverse Mercator Coordinates, Zone 13, NAD83

Figure 6

Harvest Four Corners, LLC – 32-8#2 Central Delivery Point
Isopleth Plot of AERMOD Output

NO₂ Significant Impacts
Annual Average Impacts
2019 Bloomfield Meteorological Data

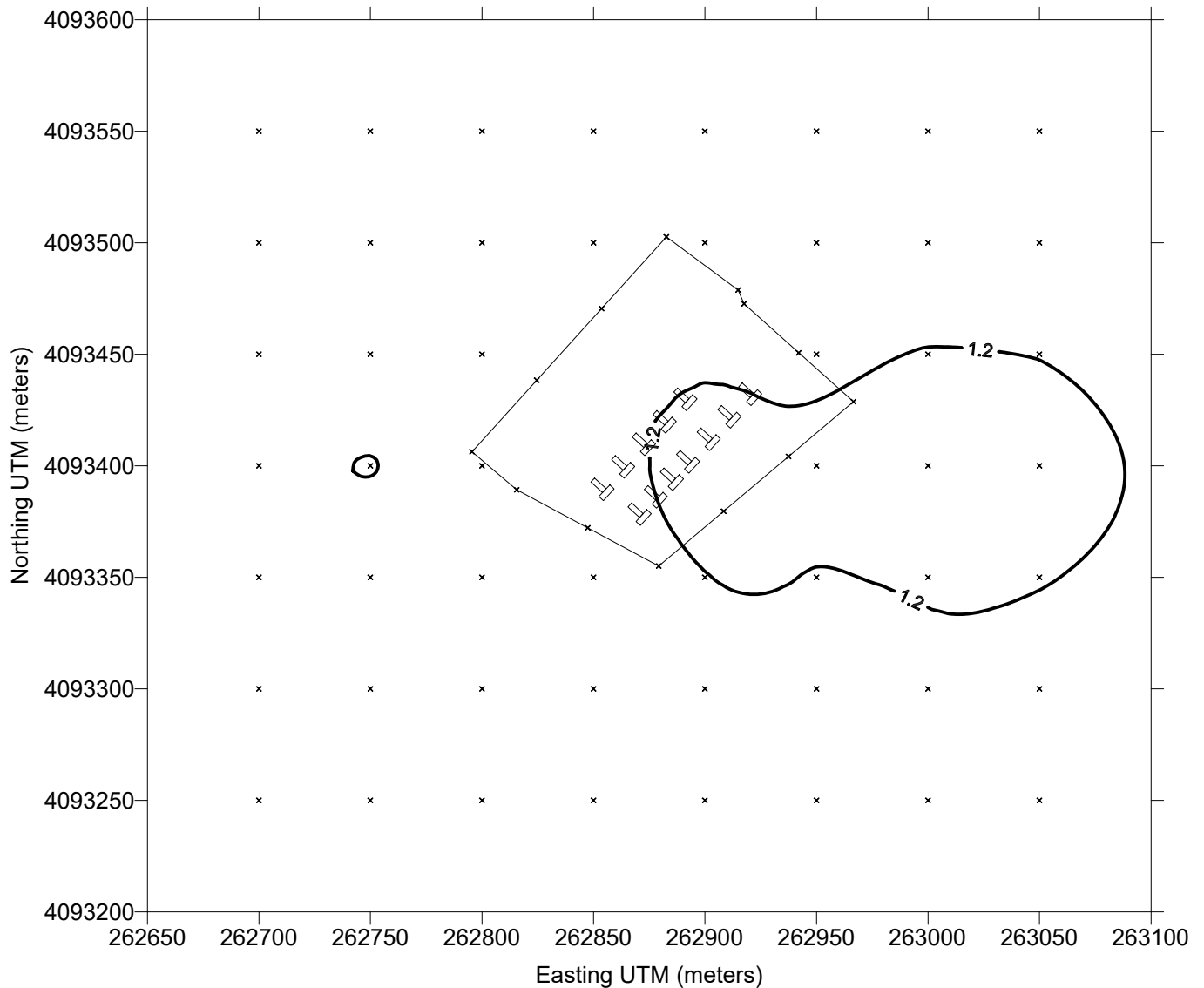


Isopleths In Micrograms Per Cubic Meter
Universal Transverse Mercator Coordinates, Zone 13, NAD83

Figure 7

Harvest Four Corners, LLC – 32-8#2 Central Delivery Point
Isopleth Plot of AERMOD Output

PM2.5 Significant Impacts
1st-Highest 24-Hour Impacts Averaged Over Five Years
2015-2019 Bloomfield Meteorological Data

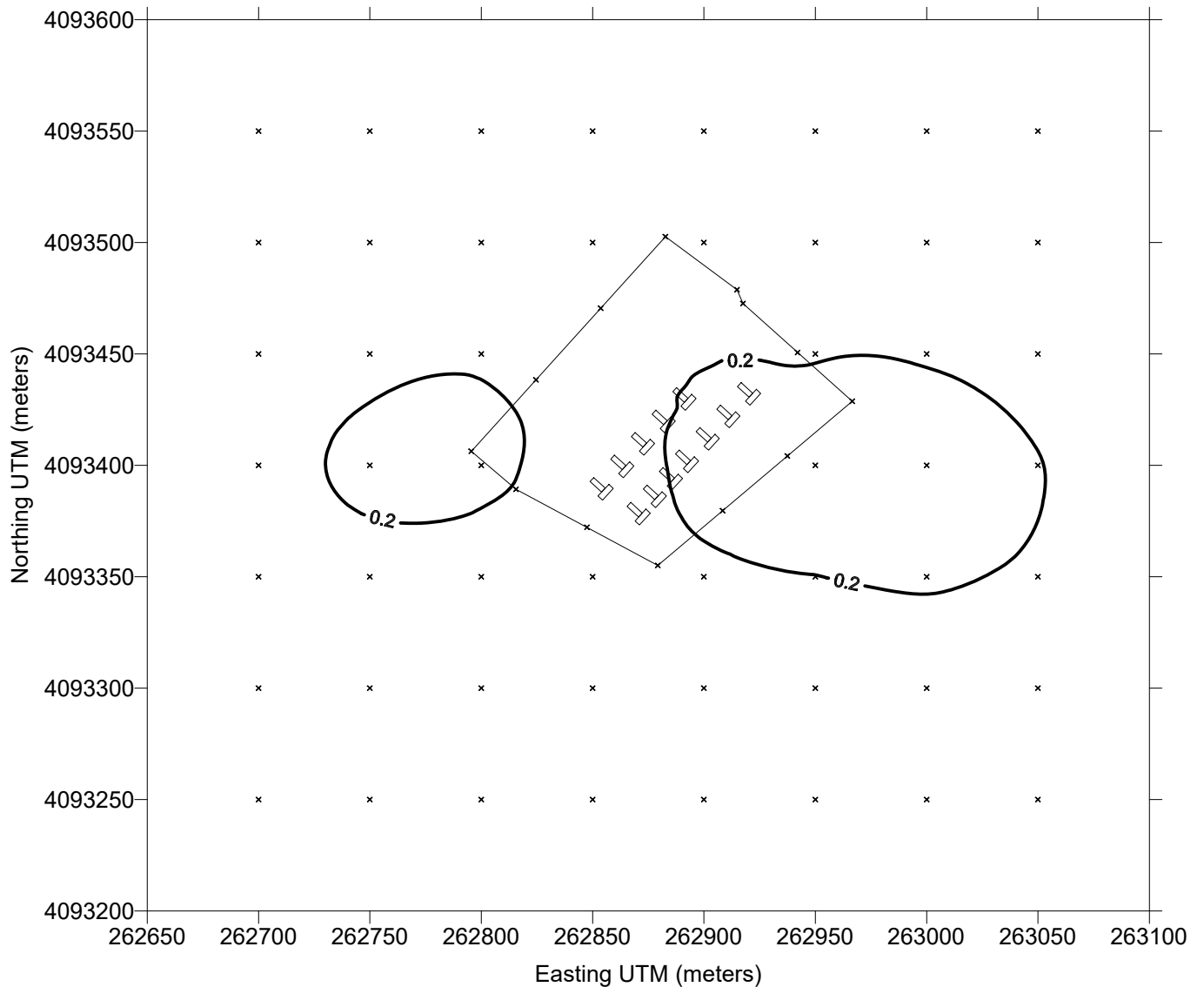


Isopleths In Micrograms Per Cubic Meter
Universal Transverse Mercator Coordinates, Zone 13, NAD83

Figure 8

Harvest Four Corners, LLC – 32-8#2 Central Delivery Point
Isopleth Plot of AERMOD Output

PM2.5 Significant Impacts
Annual Average Impacts Averaged Over Five Years
2015-2019 Bloomfield Meteorological Data



Isopleths In Micrograms Per Cubic Meter
Universal Transverse Mercator Coordinates, Zone 13, NAD83

Figure 9

Table 7**32-8#2 CDP - Source Locations, Parameters and Emission Rates**

Source	X Coord. (m)	Y Coord. (m)	Elevation (ft)	Height (ft)	Gas Temp. (deg F)	Velocity (ft/sec)	Diameter (ft)	NOX Emissions (lb/hr)
ENGINE1	262894.05	4093427.35	6720	22.0	802	162.5	1.03	2.69
ENGINE2	262884.75	4093417.26	6719	22.0	802	162.5	1.03	2.69
ENGINE3	262875.45	4093407.18	6719	25.5	1058	81.3	1.33	2.65
ENGINE4	262866.15	4093397.10	6719	25.5	1058	81.3	1.33	2.65
ENGINE5	262856.86	4093387.01	6719	25.5	1058	81.3	1.33	2.65
ENGINE6	262873.49	4093375.82	6719	25.5	1058	81.3	1.33	2.65
ENGINE7	262880.72	4093383.67	6719	22.0	802	162.5	1.03	2.69
ENGINE8	262887.95	4093391.51	6719	22.0	802	162.5	1.03	2.69
ENGINE9	262895.18	4093399.35	6719	25.5	1058	81.3	1.33	2.65
ENGINE10	262904.48	4093409.44	6719	22.0	802	162.5	1.03	2.69
ENGINE11	262913.78	4093419.52	6719	22.0	802	162.5	1.03	2.69
ENGINE12	262923.08	4093429.60	6720	22.0	802	162.5	1.03	2.69

Table 8

32-8#2 CDP - NOx Increment Consuming Source Locations, Parameters and Emission Rates

Source	X Coord. (m)	Y Coord. (m)	Elevation (ft)	Height (ft)	Gas Temp. (deg F)	Velocity (ft/sec)	Diameter (ft)	NOX Emissions (lb/hr)
38576E3	266308.63	4091180.95	6747	10.01	860.00	20.01	0.98	0.33
38576E4	266316.16	4091187.97	6747	12.01	1341.00	57.91	0.33	5.13
38576E5	266309.38	4091191.52	6747	8.01	1045.00	88.02	0.33	2.79
38576E6	266301.78	4091189.43	6747	8.01	1299.99	30.25	0.13	2.79
27353E1	267248.94	4093232.03	6905	14.99	853.00	146.00	0.98	3.96
27353E2	267256.47	4093239.06	6903	2.00	1155.99	52.99	0.16	0.51
28429E1	258457.63	4093227.15	6670	20.01	465.01	30.81	1.44	1.40
28429E2	258465.16	4093234.17	6671	20.01	465.01	30.81	1.44	1.40
1168E28	261821.50	4088701.52	6642	22.01	802.00	162.99	1.02	4.50
1168E30	261821.50	4088701.52	6642	22.01	802.00	162.99	1.02	4.50
1168E31	261821.50	4088701.52	6642	22.01	802.00	162.99	1.02	4.50
1168E32	261821.50	4088701.52	6642	22.01	802.00	162.99	1.02	4.42
1168E33	261821.5	4088701.52	6642	22.01	802.00	162.99	1.02	4.50
1168E43	261821.5	4088701.52	6642	22.01	802.00	162.99	1.02	4.50
24335E1	258698.81	4090999.15	6524	20.11	514.99	48.59	1.41	4.20
1285E1	258110.76	4092431.31	6656	10.99	795.00	277.89	0.16	0.75
28925E1	260670.45	4088290.34	6654	20.01	1317.99	35.01	0.98	1.60
28925E2	260677.98	4088297.36	6651	20.01	1317.99	35.01	0.98	1.60
38750E2	257966.94	4096156.41	6759	8.01	1299.99	23.59	0.16	0.43
38750E3	257974.47	4096163.43	6758	8.01	1035.00	241.40	0.26	5.50
39987E1	256957.99	4093127.07	6766	22.01	701.01	153.51	1.02	4.48
29887E2	269430.77	4093446.04	6260	11.48	1035.00	49.21	0.66	5.50
1273E1	264462.05	4086211.76	6573	22.01	802.00	162.99	0.98	4.50
1273E2	264462.05	4086211.76	6573	22.01	802.00	162.99	0.98	4.50
1273E3	264462.05	4086211.76	6573	22.01	802.00	162.99	0.98	4.50
1273E6	264462.05	4086211.76	6573	22.01	802.00	162.99	0.98	4.50
1273E7	264462.05	4086211.76	6573	22.01	802.00	162.99	0.98	4.50
1273E19	264462.05	4086211.76	6573	22.01	802.00	162.99	0.98	4.50
1273E22	264462.05	4086211.76	6573	22.01	802.00	162.99	0.98	4.50
1273E23	264462.05	4086211.76	6573	22.01	802.00	162.99	0.98	4.50
1273E24	264462.05	4086211.76	6573	22.01	802.00	162.99	0.98	4.50
1273E31	264462.05	4086211.76	6573	22.01	802.00	162.99	0.98	4.74
1273E42	264462.05	4086211.76	6573	22.01	802.00	162.99	0.98	4.41
1273E43	264462.05	4086211.76	6573	22.01	802.00	162.99	0.98	4.38
1273E44	264462.05	4086211.76	6573	22.01	802.00	162.99	0.98	4.38
1273E45	264462.05	4086211.76	6573	22.01	802.00	162.99	0.98	4.50
1310E2	260601.25	4086581.5	6612	10.01	550.00	38.48	0.98	0.20
1303E6	269823	4096111.49	6506	22.01	701.01	154.99	1.02	2.70
1303E7	269823	4096111.49	6506	22.01	701.01	154.99	1.02	2.70
1303E9	269823	4096111.49	6506	19.00	600.01	6.00	0.82	2.71
1303E21	269823	4096111.49	6506	22.01	701.01	154.99	1.02	2.70

Table 8

32-8#2 CDP - NOx Increment Consuming Source Locations, Parameters and Emission Rates

Source	X Coord. (m)	Y Coord. (m)	Elevation (ft)	Height (ft)	Gas Temp. (deg F)	Velocity (ft/sec)	Diameter (ft)	NOX Emissions (lb/hr)
1303E22	269823	4096111.49	6506	19.09	600.01	6.10	0.82	0.04
1303E23	269823	4096111.49	6506	19.09	600.01	6.10	0.82	0.04
1303E26	269823	4096111.49	6506	19.09	600.01	6.10	0.82	0.04
1303E28	269823	4096111.49	6506	19.09	600.01	6.10	0.82	0.04
1303E30	269823	4096111.49	6506	19.09	600.01	6.10	0.82	0.04
1303E41	269823	4096111.49	6506	22.01	701.01	154.99	1.02	2.70
1303E51	269823	4096111.49	6506	22.01	701.01	154.99	1.02	2.70
1303E52	269823	4096111.49	6506	22.01	701.01	154.99	1.02	2.70
1303E53	269823	4096111.49	6506	22.01	701.01	154.99	1.02	2.67
1303E54	269823	4096111.49	6506	22.01	701.01	154.99	1.02	2.70
28542E3	260643.12	4086440.17	6596	16.93	696.00	146.39	0.69	2.59
28542E5	260650.65	4086447.19	6600	20.01	465.01	30.81	1.44	1.40
28542E6	260643.87	4086450.75	6599	20.01	465.01	30.81	1.44	1.40
1250E1	264302.03	4086481.72	6603	35.01	970.00	152.56	1.12	4.10
1250E2	264302.03	4086481.72	6603	35.01	970.00	152.56	1.12	4.10
24336E1	254999.79	4092194.31	6471	20.11	514.99	48.59	1.44	4.21
1391E1	254500.04	4093481.08	6522	8.01	1045.99	87.01	0.33	3.00
24328E12	254699.79	4091194.21	6623	20.11	514.99	48.59	1.41	4.20
24329E1	254199.78	4093694.24	6562	20.11	514.99	48.59	1.44	4.20
27671E1	264786.16	4084843.87	6453	14.99	250.00	1016.99	0.16	0.11
27671E2	264793.7	4084850.89	6453	5.91	571.01	49.21	0.33	2.40
1223E1	272003.4	4090481.9	6754	29.99	1254.99	132.61	0.30	6.40
1223E3	272003.4	4090481.9	6754	29.99	571.01	49.21	0.26	1.60
1223E5	272003.4	4090481.9	6754	10.99	1380.00	87.01	0.20	0.60
1221E1	272013.45	4090281.98	6737	22.01	701.01	153.71	1.02	2.69
1221E5	272013.45	4090281.98	6737	22.01	701.01	153.71	1.02	2.70
1221E16	272013.45	4090281.98	6737	22.01	701.01	153.71	1.02	2.69
1221E21	272013.45	4090281.98	6737	22.01	701.01	153.71	1.02	2.69
1221E24	272013.45	4090281.98	6737	22.01	701.01	153.71	1.02	2.69
1221E26	271976.91	4090313.27	6735	10.01	600.01	6.10	0.82	0.04
1221E27	271982.62	4090320.19	6735	10.01	600.01	6.10	0.82	0.04
1221E31	271982.06	4090329.37	6735	10.01	600.01	6.10	0.98	0.04
1221E36	272013.45	4090281.98	6737	22.01	701.01	153.71	1.02	2.70
1221E37	272013.45	4090281.98	6737	22.01	701.01	153.71	1.02	2.69
1221E43	271963.96	4090311.17	6736	10.01	600.01	6.10	0.98	0.04
1221E45	271974.36	4090309.63	6735	10.01	600.01	6.10	0.98	0.04
1221E49	271983.2	4090315.72	6735	10.01	600.01	6.10	0.98	0.04
1221E50	272013.45	4090281.98	6737	22.01	701.01	154.00	1.02	2.70
1221E52	272013.45	4090281.98	6737	22.01	701.01	154.00	1.02	2.54
1221E53	272013.45	4090281.98	6737	22.01	701.01	153.71	1.02	2.54
1221E66	271954.43	4090322.97	6736	22.01	701.01	153.71	1.02	2.20

Table 8

32-8#2 CDP - NOx Increment Consuming Source Locations, Parameters and Emission Rates

Source	X Coord. (m)	Y Coord. (m)	Elevation (ft)	Height (ft)	Gas Temp. (deg F)	Velocity (ft/sec)	Diameter (ft)	NOX Emissions (lb/hr)
1221E68	272013.45	4090281.98	6737	22.01	701.01	153.71	1.02	2.69
1221E69	272013.45	4090281.98	6737	22.01	701.01	153.71	1.02	2.69
1221E70	272013.45	4090281.98	6737	22.01	701.01	153.71	1.02	2.69
1221E71	272013.45	4090281.98	6737	22.01	701.01	153.71	1.02	2.69
1221E72	272013.45	4090281.98	6737	22.01	701.01	153.71	1.02	2.69
1221E73	272013.45	4090281.98	6737	22.01	701.01	153.71	1.02	2.69
1221E74	272013.45	4090281.98	6737	22.01	701.01	153.71	1.02	2.69
1193E2	271503.31	4087831.76	6617	41.99	759.99	179.10	1.51	8.80
1193E27	271503.31	4087831.76	6617	41.99	759.99	179.10	1.51	6.00
27548E2	260623.85	4083185.63	6477	12.01	900.00	96.00	0.33	1.10
27548E3	260631.39	4083192.65	6478	6.00	900.00	27.99	0.26	0.18
27548E5	260624.6	4083196.2	6479	10.01	854.33	91.86	0.98	0.16
1272E1	271813.35	4087671.85	6614	22.01	701.01	154.00	1.02	4.50
1272E2	271813.35	4087671.85	6614	22.01	701.01	154.00	1.02	4.50
1272E4	271813.35	4087671.85	6614	22.01	701.01	154.00	1.02	4.50
1272E6	271813.35	4087671.85	6614	22.01	701.01	154.00	1.02	4.50
1272E15	271813.35	4087671.85	6614	22.01	701.01	154.00	1.02	4.50
1272E16	271813.35	4087671.85	6614	22.01	701.01	154.00	1.02	4.50
1272E17	271813.35	4087671.85	6614	22.01	701.01	154.40	1.02	4.50
1272E20	271813.35	4087671.85	6614	22.01	701.01	154.00	1.02	4.50
1272E28	271745.14	4087695.21	6615	22.01	701.01	154.00	1.02	4.50
1272E30	271813.35	4087671.85	6614	22.01	701.01	154.00	1.02	4.50
1272E32	271813.35	4087671.85	6614	22.01	701.01	154.00	1.02	4.50
1272E33	271813.35	4087671.85	6614	22.01	701.01	154.00	1.02	4.50
1272E34	271813.35	4087671.85	6614	22.01	701.01	154.00	1.02	4.50
1272E35	271750.12	4087723.3	6615	22.01	701.01	154.00	1.02	4.50
1272E55	271813.35	4087671.85	6614	22.01	701.01	154.00	1.02	4.50
1272E56	271813.35	4087671.85	6614	22.01	701.01	154.00	1.02	4.50
1272E67	271813.35	4087671.85	6614	22.01	701.01	154.00	1.02	4.50
1272E68	271813.35	4087671.85	6614	22.01	701.01	154.00	1.02	4.50
1272E69	271813.35	4087671.85	6614	22.01	701.01	154.00	1.02	4.50
1272E80	271813.35	4087671.85	6614	22.01	701.01	154.00	1.02	4.40
1272E81	271813.35	4087671.85	6614	22.01	701.01	154.00	1.02	4.40
1272E82	271813.35	4087671.85	6614	22.01	701.01	154.00	1.02	4.38
23708E1	255328.93	4086036.22	6451	15.85	489.99	22.01	0.98	3.38
23708E2	255336.46	4086043.24	6452	6.99	854.33	100.00	0.26	0.40
23708E4	255329.68	4086046.79	6450	22.97	854.33	91.86	0.98	0.15
1423E1	252769.65	4097040.85	6891	45.01	770.00	116.01	2.20	5.90
1423E2	252769.65	4097040.85	6891	45.01	770.00	116.01	2.20	5.90
1423E10	252769.94	4097101.43	6883	45.01	770.00	116.01	2.20	5.90
1423E17	252765.7	4097094.53	6884	45.01	770.00	116.01	2.20	6.40

Table 8
32-8#2 CDP - NOx Increment Consuming Source Locations, Parameters and Emission Rates

Source	X Coord. (m)	Y Coord. (m)	Elevation (ft)	Height (ft)	Gas Temp. (deg F)	Velocity (ft/sec)	Diameter (ft)	NOX Emissions (lb/hr)
25663E1	266051.12	4083081.52	6474	10.50	1045.00	1.71	2.40	2.10
25663E2	266058.66	4083088.54	6474	16.70	836.01	96.39	0.69	2.30
25663E7	266051.87	4083092.09	6474	6.99	800.01	238.62	0.20	0.40
23709E1	254902.32	4084216.03	6417	10.01	914.00	133.99	0.49	2.86
23709E2	254532.81	4086529.2	6205	10.01	914.00	133.99	0.49	0.42
23709E3	254526.02	4086532.75	6206	10.01	914.00	133.99	0.49	0.15
23709E5	256672.58	4090637.43	6578	10.01	914.00	133.99	0.49	2.86
23709E6	259753.53	4087313.62	6467	10.01	914.00	133.99	0.49	2.86
23709E7	259753.53	4087313.62	6467	10.01	914.00	133.99	0.49	2.86
23709E8	254522.79	4086510.64	6204	8.20	571.01	49.21	0.33	2.86
23709E9	254531.47	4086511.78	6204	8.20	571.01	49.21	0.33	2.86
23709E10	254537.18	4086518.71	6205	8.20	571.01	49.21	0.33	2.86
23709E11	254536.61	4086527.89	6205	8.20	571.01	49.21	0.33	2.86
28123E1	262038.43	4082292.07	6234	12.01	1045.00	156.99	0.26	2.80
28123E11	262045.97	4082299.09	6234	5.91	1238.00	198.49	0.20	2.10
28123E12	262039.18	4082302.64	6235	14.99	571.01	143.96	0.26	3.10
4659E1	273751.38	4090303.76	6544	20.01	465.01	30.71	1.44	2.60
4659E2	273758.91	4090310.78	6544	20.01	465.01	30.71	1.44	2.60
4659E3	273752.13	4090314.34	6546	10.01	600.01	50.98	0.26	0.04
37029E1	251591.03	4091759.56	6620	14.99	1333.00	216.40	0.49	3.04
37029E9	251598.57	4091766.59	6621	14.99	1333.00	216.40	0.49	3.04
39121E1	258990.92	4082704.89	6511	5.91	0.00	49.21	0.33	2.06
39121E2	258998.46	4082711.91	6511	20.01	1350.00	123.88	0.26	1.80
39121E3	258991.67	4082715.46	6511	6.00	199.99	5.09	0.59	0.03
39121E4	258984.07	4082713.37	6511	6.00	199.99	5.09	0.59	0.03
39121E5	258979.83	4082706.47	6510	6.00	199.99	5.09	0.59	0.03
39121E6	258981.48	4082698.32	6511	6.00	199.99	5.09	0.59	0.03
26305E1	272961.45	4087551.92	6524	10.50	1045.00	1.71	2.40	2.10
26305E2	272968.98	4087558.94	6522	5.41	1324.99	189.01	0.33	1.70
26760E2	266125.61	4082184.98	6482	6.99	300.00	0.69	0.20	0.27
26760E5	266133.15	4082192	6490	22.97	854.33	91.86	0.98	0.03
26760E6	266126.36	4082195.56	6489	22.97	854.33	91.86	0.98	0.03
26684E1	266725.08	4082353.53	6319	22.97	970.00	31.66	0.26	1.03
26684E2	266732.62	4082360.55	6306	16.93	838.00	153.71	0.69	2.80
30686E10	261450.75	4081666.87	6227	4.99	854.33	91.86	0.26	0.50
30686E14	261458.29	4081673.89	6228	14.99	1238.00	198.49	0.20	1.80
30686E15	261451.5	4081677.44	6226	14.99	735.01	97.80	0.20	0.50
30686E16	261443.91	4081675.35	6226	4.99	1299.99	68.01	0.20	0.40
1307E1	259290.97	4082011.64	6313	22.01	675.00	279.99	0.98	2.70
1307E3	259291.72	4082022.21	6316	20.01	375.01	0.36	0.75	0.25
26646E1	265515.83	4081646.52	6438	15.72	849.99	145.01	0.69	2.40

Table 8

32-8#2 CDP - NOx Increment Consuming Source Locations, Parameters and Emission Rates

Source	X Coord. (m)	Y Coord. (m)	Elevation (ft)	Height (ft)	Gas Temp. (deg F)	Velocity (ft/sec)	Diameter (ft)	NOX Emissions (lb/hr)
26646E7	265523.37	4081653.54	6437	16.93	838.00	153.71	0.69	2.80
29300E1	270029.56	4083559.13	6394	16.01	836.01	96.39	0.98	1.80
29300E2	270037.09	4083566.15	6391	6.99	800.01	277.99	0.20	0.60
29300E3	270030.31	4083569.71	6393	6.99	800.01	189.01	0.20	1.70
29300E4	270022.71	4083567.61	6394	10.01	960.01	31.99	0.26	0.60
1313E4	264611.99	4080991.96	6421	22.01	500.00	160.01	1.41	0.01
26782E1	261258.23	4080765.75	6256	14.63	1380.00	216.01	0.43	0.13
26782E3	261265.77	4080772.77	6256	22.97	970.00	31.66	0.13	1.10
26782E7	261258.98	4080776.32	6257	12.01	1004.00	81.14	0.49	0.40
27563E1	255427.88	4082478.27	5974	12.01	1045.00	87.99	0.33	2.90
27563E2	255435.42	4082485.29	5975	12.01	900.00	8.50	0.33	0.50
27563E3	255428.63	4082488.85	5976	6.00	900.00	37.99	0.16	0.18
27563E4	255421.04	4082486.75	5976	10.01	854.33	91.86	0.98	0.16
27870E1	261902.26	4080081.07	6214	20.01	1078.00	146.00	0.26	1.80
27870E2	261909.8	4080088.09	6213	20.01	1359.00	146.00	0.26	0.50
27870E10	261903.01	4080091.65	6216	4.00	300.00	25.00	0.26	0.14
26647E1	265326.4	4080171.03	6397	15.72	849.99	145.01	0.69	2.40
26647E2	265333.93	4080178.05	6395	16.70	836.01	96.39	0.69	1.80
26647E8	265327.15	4080181.61	6396	6.99	300.00	0.69	0.20	0.30
26647E9	265319.55	4080179.51	6398	6.99	300.00	0.69	0.20	0.30
31477E1	252172.6	4085048.58	6183	12.01	1035.00	60.40	0.49	4.70
31477E2	252180.14	4085055.6	6183	16.01	440.01	91.40	0.98	0.90
31477E3	252173.35	4085059.15	6184	2.99	854.33	91.86	0.98	0.50
31477E7	252165.76	4085057.06	6184	22.97	854.33	91.86	0.98	0.21
31477E10	252161.52	4085050.16	6183	14.99	735.01	198.49	0.20	0.50
27910E10	263678.27	4079483.59	6222	8.01	1167.01	52.99	0.26	1.20
27910E11	263671.49	4079487.14	6222	8.01	1045.00	87.99	0.33	1.70
1248E1	258000.74	4080181.61	5962	8.99	1230.01	160.01	0.30	2.41
1248E2	258008.28	4080188.63	5958	10.01	1090.00	46.19	0.30	0.91
1197E1	254299.96	4082081.41	6074	14.99	800.01	44.59	0.49	3.04
38038E1	248910.08	4097746.61	6991	14.99	1495.00	164.80	0.49	3.10
38038E2	248917.61	4097753.63	6991	14.99	1495.00	164.80	0.49	3.10
38038E6	248910.83	4097757.19	6994	14.99	1495.00	164.80	0.49	0.80
28631E1	273173.32	4082958.38	6248	13.75	693.00	94.75	0.69	0.90
28631E2	273180.85	4082965.4	6246	6.99	800.01	277.99	0.20	0.40
1332E4	255902.03	4080096.69	5846	9.84	571.01	49.21	0.33	4.20
30029E2	247887.87	4090819.77	6633	14.99	836.01	198.49	0.66	2.00
34763E1	248430.03	4088000.24	6650	14.99	1335.00	211.81	0.49	3.22
34763E2	248437.56	4088007.26	6653	14.99	1335.00	211.81	0.49	3.22
1205E1	260001.11	4088181.51	6580	20.01	1009.99	30.81	1.41	7.30
1205E3	260001.11	4088181.51	6580	4.99	100.00	10.01	0.26	1.60

Table 8

32-8#2 CDP - NOx Increment Consuming Source Locations, Parameters and Emission Rates

Source	X Coord. (m)	Y Coord. (m)	Elevation (ft)	Height (ft)	Gas Temp. (deg F)	Velocity (ft/sec)	Diameter (ft)	NOX Emissions (lb/hr)
1205E5	260001.11	4088181.51	6580	4.99	100.00	10.01	0.26	0.32
1367E5	277804.32	4088581.99	6302	22.01	701.01	153.71	1.02	4.41
1367E8	277804.32	4088581.99	6302	22.01	701.01	153.71	1.02	4.60
1367E9	277804.32	4088581.99	6302	22.01	701.01	153.71	1.02	4.60
1367E10	277804.32	4088581.99	6302	22.01	701.01	153.71	1.02	4.60
1367E26	277804.32	4088581.99	6302	22.01	701.01	153.71	1.02	4.60
1367E30	277804.32	4088581.99	6302	22.01	701.01	153.71	1.02	4.47
1367E33	277804.32	4088581.99	6302	10.99	800.01	5.09	0.49	0.01
1216E1	248998.79	4086181.15	6518	10.01	710.33	49.21	0.26	6.90
28356E1	262995.5	4077666.01	5836	16.01	440.01	18.50	0.98	0.90
28356E2	263003.04	4077673.03	5837	8.01	1167.01	29.99	0.33	1.70
27231E1	254200.69	4080176.5	5960	20.01	469.99	49.21	1.41	2.10
26138E1	279357.99	4094261.4	6434	21.16	806.00	1889.01	0.16	2.80
26138E10	279365.52	4094268.42	6431	4.00	1009.99	83.89	0.98	0.39
24383E1	266885.73	4077352.06	6278	10.50	1045.00	1.71	2.40	2.10
24383E2	266893.26	4077359.08	6279	22.97	854.33	91.86	0.26	1.00
24383E3	266886.48	4077362.63	6279	22.97	854.33	91.86	0.26	1.00
28055E1	259756.64	4077149.79	5681	16.01	1045.00	88.19	0.33	2.90
28055E2	259764.17	4077156.81	5681	12.01	900.00	94.49	0.33	1.20
28055E3	259757.39	4077160.36	5680	6.00	900.00	37.60	0.16	0.18
28055E4	259749.79	4077158.27	5680	10.01	854.33	91.86	0.98	0.16
1315E7	256507.93	4078088.68	5813	37.99	800.01	10.60	1.51	0.26
1315E8	256501.15	4078092.23	5812	37.99	800.01	10.60	1.51	0.26
1315E10	256493.55	4078090.14	5813	39.99	780.01	179.10	1.48	8.80
1315E11	256489.31	4078083.24	5813	39.99	780.01	179.10	1.48	8.30
1004E1	271303.24	4079082.11	6311	27.00	1250.01	162.01	0.33	6.82
1004E2	271310.77	4079089.13	6309	27.00	1250.01	162.01	0.33	6.82
39167E1	280199.54	4094455.5	6154	16.99	1495.00	73.20	0.75	0.78
39167E2	280207.08	4094462.52	6154	16.99	1333.00	96.19	0.75	3.12
39167E3	280200.29	4094466.07	6154	0.92	1299.99	68.01	0.20	0.52
39167E4	280192.7	4094463.98	6154	0.62	1299.99	74.11	0.16	0.47
39167E5	280188.45	4094457.08	6154	6.00	600.01	5.09	0.66	0.03
39167E6	280190.11	4094448.92	6154	6.00	600.01	5.09	0.66	0.03
39167E7	280197.06	4094443.96	6154	6.00	600.01	5.09	0.66	0.03
39167E8	280205.74	4094445.1	6154	6.00	600.01	5.09	0.66	0.03
39167E9	280211.45	4094452.03	6154	6.00	600.01	5.09	0.66	0.03
39167E13	280210.88	4094461.21	6154	0.92	1299.99	68.01	0.20	0.51
37995E1	245529.95	4092744.69	6175	14.99	1333.00	216.40	0.49	3.10
37995E2	245537.49	4092751.71	6175	14.99	1333.00	216.40	0.49	3.10
36222E1	280201.88	4096753.55	6158	14.99	1347.01	353.51	0.33	1.60
36222E2	280209.42	4096760.58	6157	4.00	1299.99	68.01	0.20	0.51

Table 8
32-8#2 CDP - NOx Increment Consuming Source Locations, Parameters and Emission Rates

Source	X Coord. (m)	Y Coord. (m)	Elevation (ft)	Height (ft)	Gas Temp. (deg F)	Velocity (ft/sec)	Diameter (ft)	NOX Emissions (lb/hr)
28461E1	278801.31	4084763.75	6281	16.90	838.00	153.71	0.69	2.80
28461E2	278808.84	4084770.77	6281	12.01	1359.00	80.38	0.49	0.80
1344E1	246098.07	4086081.04	6390	47.01	950.00	28.81	3.51	2.88
1344E2	246105.61	4086088.06	6388	20.01	950.00	12.99	0.98	0.08
28885E1	265937.69	4075342.23	6344	20.01	813.00	103.31	0.82	2.80
1226E3	245137.82	4087110.85	6234	22.01	802.99	164.99	1.02	4.60
1226E7	245137.82	4087110.85	6234	22.01	802.99	164.99	1.02	4.60
1226E37	245137.82	4087110.85	6234	22.01	802.99	164.99	1.02	4.60
1226E46	245137.82	4087110.85	6234	22.01	802.99	164.99	1.02	4.60
1226E47	245137.82	4087110.85	6234	22.01	802.99	164.99	1.02	4.39
1226E63	245137.82	4087110.85	6234	22.01	802.99	164.99	1.02	4.60
1226E65	245137.82	4087110.85	6234	22.01	802.99	164.99	1.02	4.60
1226E66	245137.82	4087110.85	6234	22.01	802.99	164.99	1.02	4.60
1017E1	278864.5	4083362.17	6509	8.01	997.00	175.98	0.33	5.41
1183E5	256140.34	4075582.63	5752	41.99	759.99	179.10	1.51	8.80
1183E12	256140.34	4075582.63	5752	41.99	759.99	179.10	1.51	8.80
1183E29	256140.34	4075582.63	5752	41.99	759.99	179.10	1.51	8.80
83E34385	256140.34	4075582.63	5752	52.69	743.00	112.99	1.84	8.80
1023E1	276294.13	4079682.32	6270	8.01	997.00	175.98	0.33	5.41
27632E2	264518.83	4074270.81	6046	6.00	900.00	52.99	0.16	0.09
27632E3	264526.36	4074277.83	6047	12.01	972.00	85.79	0.62	0.20
1040E1	272563.46	4076242.28	6276	22.01	667.00	123.79	1.02	3.80
1040E2	272563.46	4076242.28	6276	22.01	667.00	123.79	1.02	4.00
1040E24	272563.46	4076242.28	6276	22.01	702.00	156.00	1.02	4.60
1024E1	272533.47	4076122.16	6282	14.01	1230.01	160.01	0.30	2.11
1024E2	272523.47	4076122.2	6281	6.99	1090.00	46.00	0.30	0.82
1024E3	275524.02	4076122.29	6414	6.99	1090.00	46.00	0.30	0.82
1275E6	261101.35	4073282.07	6153	22.01	702.00	156.20	1.02	3.80
1275E7	261101.35	4073282.07	6153	22.01	702.00	156.20	1.02	3.80
1275E13	260646.14	4073401.43	6231	22.01	702.00	156.20	1.02	3.80
1274E2	253699.82	4074781.73	5996	22.01	703.00	157.38	1.02	4.60
1274E3	253699.82	4074781.73	5996	22.01	703.00	157.38	1.02	4.60
1274E5	253699.82	4074781.73	5996	22.01	703.00	157.38	1.02	4.60
1274E6	253699.82	4074781.73	5996	22.01	703.00	157.38	1.02	4.60
1274E15	253699.82	4074781.73	5996	10.01	600.01	6.10	0.82	0.04
1274E31	253699.82	4074781.73	5996	10.01	600.01	6.10	0.82	0.04
1274E34	253699.82	4074781.73	5996	10.01	600.01	6.10	0.82	0.04
1274E55	253699.82	4074781.73	5996	22.01	703.00	157.38	1.02	4.54
1274E56	253699.82	4074781.73	5996	22.01	703.00	157.38	1.02	4.60
1274E57	253699.82	4074781.73	5996	22.01	703.00	157.38	1.02	4.60
1038E15	271303.31	4073582.25	6896	39.99	780.01	179.10	1.48	8.80

Table 8

32-8#2 CDP - NOx Increment Consuming Source Locations, Parameters and Emission Rates

Source	X Coord. (m)	Y Coord. (m)	Elevation (ft)	Height (ft)	Gas Temp. (deg F)	Velocity (ft/sec)	Diameter (ft)	NOX Emissions (lb/hr)
1038E16	271310.85	4073589.27	6896	39.99	780.01	179.10	1.48	7.06
1038E17	271304.06	4073592.82	6896	39.99	780.01	179.10	1.48	8.80
1331E11	241146.93	4093190.56	5983	39.99	780.01	179.10	1.48	8.80
1331E13	241146.93	4093190.56	5983	39.99	780.01	179.10	1.48	8.80
1331E14	241146.93	4093190.56	5983	39.99	780.01	179.10	1.48	8.80
1010E1	277904.88	4077502.62	6319	21.00	788.00	245.01	2.49	-23.64
1010E4	277904.88	4077502.62	6319	25.00	1053.00	269.00	0.43	12.60
1010E26	277703.05	4077505.49	6329	22.97	854.33	91.86	0.98	0.05
1010E28	277904.88	4077502.62	6319	21.00	788.00	245.01	2.49	-10.12
1010E31	277904.88	4077502.62	6319	39.01	789.01	258.40	2.49	3.56
1010E32	277904.88	4077502.62	6319	39.01	789.01	258.40	2.49	3.49
1010E35	277904.88	4077502.62	6319	21.00	788.00	245.01	2.49	14.54
1010E36	277904.88	4077502.62	6319	21.00	788.00	245.01	2.49	15.10
10E35795	277904.88	4077502.62	6319	31.99	797.00	36.61	6.50	24.10
10E35796	277697.17	4077507.18	6329	21.00	811.00	253.22	2.49	3.50
10E35797	277689.91	4077500.52	6330	21.00	811.00	253.22	2.49	3.50
4576E1	271300.75	4073299.83	6877	11.48	571.01	49.21	0.49	5.44
4576E2	271308.28	4073306.85	6880	6.00	900.00	33.99	0.16	0.17
1064E7	284912.97	4093789.18	6378	12.01	1337.00	109.09	0.59	4.50
1173E5	239996.57	4093180.54	6087	20.01	465.01	31.00	1.41	1.50
39938E1	241549.67	4086407.29	6087	14.80	813.00	146.39	0.69	2.78
39938E2	241557.2	4086414.31	6088	8.20	1299.99	94.32	0.30	1.90
1276E2	240796.86	4098080.29	6154	22.01	702.50	156.50	1.02	4.60
1276E5	240796.86	4098080.29	6154	22.01	702.50	156.50	1.02	4.60
1276E6	240796.86	4098080.29	6154	22.01	802.99	165.49	1.02	-4.60
1276E7	240796.86	4098080.29	6154	22.01	802.99	165.49	1.02	-4.60
1276E8	240796.86	4098080.29	6154	22.01	802.99	165.49	1.02	-4.60
1276E9	240796.86	4098080.29	6154	22.01	802.99	165.49	1.02	-4.60
1276E11	240796.86	4098080.29	6154	22.01	802.99	165.49	1.02	-4.60
1276E12	240796.86	4098080.29	6154	22.01	802.99	165.49	1.02	-4.60
1276E29	240796.86	4098080.29	6154	20.01	702.50	156.50	1.02	4.38
1276E39	240749.81	4098143.49	6162	18.67	696.40	78.81	1.02	2.30
1276E40	240796.86	4098080.29	6154	19.82	702.50	156.50	1.02	4.60
23827E2	285514.22	4093141.07	6315	10.01	600.01	5.09	0.98	0.02
23827E4	285521.76	4093148.1	6315	19.49	867.00	147.01	0.98	4.00
23827E8	285514.97	4093151.65	6315	10.01	600.01	5.09	0.98	0.03
23827E14	285507.37	4093149.56	6315	19.49	867.00	147.01	0.98	4.00
23827E19	285503.13	4093142.66	6315	10.01	600.01	5.09	0.98	0.02
23827E20	285504.78	4093134.5	6315	10.01	600.01	5.09	0.98	0.02
23827E21	285511.73	4093129.54	6315	10.01	600.01	5.09	0.98	0.02
23827E22	285520.42	4093130.68	6315	6.99	800.01	189.01	0.20	0.30

Table 8

32-8#2 CDP - NOx Increment Consuming Source Locations, Parameters and Emission Rates

Source	X Coord. (m)	Y Coord. (m)	Elevation (ft)	Height (ft)	Gas Temp. (deg F)	Velocity (ft/sec)	Diameter (ft)	NOX Emissions (lb/hr)
23827E28	285526.13	4093137.61	6314	19.49	867.00	147.01	0.98	4.00
23827E30	285518.73	4093153.27	6315	19.49	867.00	147.01	0.98	4.00
23827E31	285509.09	4093153.35	6315	19.49	867.00	147.01	0.98	4.00
1267E1	240296.69	4095250.48	6042	22.01	703.00	156.99	1.02	4.60
1267E2	240296.69	4095250.48	6042	22.01	703.00	156.99	1.02	4.60
1267E3	240296.69	4095250.48	6042	22.01	703.00	156.99	1.02	4.60
1267E4	240296.69	4095250.48	6042	22.01	703.00	156.99	1.02	4.60
1267E5	240296.69	4095250.48	6042	22.01	703.00	156.99	1.02	4.60
1229E1	239996.58	4092680.59	6166	14.99	825.01	150.00	0.07	2.08
1181E2	241436.95	4085640.75	6087	35.01	970.00	144.91	1.12	4.50
1181E3	241436.95	4085640.75	6087	35.01	970.00	144.91	1.12	4.50
1181E5	241436.95	4085640.75	6087	35.01	970.00	289.83	1.12	7.20
81E39702	241436.95	4085640.75	6087	35.01	970.00	289.83	1.12	7.11
27948E1	279299.54	4077314.61	6311	12.01	900.00	97.01	0.33	1.20
27948E2	279307.07	4077321.63	6311	6.00	900.00	37.99	0.16	0.18
27948E3	279300.29	4077325.18	6311	12.01	1167.01	118.01	0.33	3.50
27948E4	279292.69	4077323.09	6312	10.01	854.33	91.86	0.98	0.14
23704E2	285834.69	4091227.03	6657	19.49	844.00	126.51	0.98	0.03
23704E4	285842.22	4091234.05	6656	19.49	844.00	126.51	0.98	4.80
23704E6	285835.44	4091237.6	6657	19.49	867.00	146.59	0.98	4.00
23704E12	285823.6	4091228.61	6657	10.01	600.01	5.09	0.98	0.02
23704E13	285825.25	4091220.45	6657	10.01	600.01	5.09	0.98	0.01
23704E17	285832.2	4091215.49	6657	10.01	600.01	5.09	0.98	0.04
23704E18	285840.88	4091216.63	6657	6.99	800.01	189.21	0.20	0.30
23704E23	285846.59	4091223.56	6656	19.49	867.00	146.59	0.98	4.00
23704E24	285846.03	4091232.74	6656	19.49	867.00	146.59	0.98	4.00
23704E26	285839.19	4091239.22	6657	19.49	867.00	146.59	0.98	4.00
1319E11	241526.95	4084670.79	5997	22.01	842.00	112.70	3.41	5.91
1325E3	250569.04	4073991.65	5838	45.01	770.00	116.01	2.20	5.50
1325E8	250569.04	4073991.65	5838	45.01	770.00	116.01	2.20	5.50
1325E9	250569.04	4073991.65	5838	45.01	770.00	116.01	2.20	5.50
1233E1	263391.83	4070272.16	6056	10.01	1035.00	135.99	0.33	10.80
1233E2	263391.83	4070272.16	6056	10.01	100.00	4.99	0.49	3.99
989E10	266441.35	4073141.49	6038	39.99	759.99	168.01	1.61	5.57
989E15	266441.33	4073150.71	6040	39.99	759.99	168.01	1.61	6.04
989E30	266441.27	4073132.17	6037	39.99	759.99	168.01	1.61	6.36
36504E1	261076.11	4070233.78	6356	39.99	759.99	168.01	1.61	8.10
36504E2	266358.3	4070099.25	6294	39.99	759.99	168.01	1.61	8.10
26468E1	265722.88	4070227.69	6209	8.01	1045.99	89.01	0.33	3.10
26468E6	265730.42	4070234.71	6209	8.01	1000.00	31.00	0.33	1.30
28914E1	265797.35	4070225.65	6211	16.01	1035.00	135.99	0.33	2.80

Table 8

32-8#2 CDP - NOx Increment Consuming Source Locations, Parameters and Emission Rates

Source	X Coord. (m)	Y Coord. (m)	Elevation (ft)	Height (ft)	Gas Temp. (deg F)	Velocity (ft/sec)	Diameter (ft)	NOX Emissions (lb/hr)
28914E2	265804.89	4070232.67	6212	16.01	571.01	49.21	0.26	2.10
1153E13	250699.07	4072781.72	5771	22.01	842.00	112.70	3.41	1.41
1186E1	249498.8	4072681.58	5762	22.01	819.00	202.00	1.51	3.30
1186E13	249498.8	4072681.58	5762	22.01	819.00	150.00	1.51	3.30
1186E14	249498.8	4072681.58	5762	22.01	801.00	150.00	1.51	2.80
1011E2	285945.56	4084282.55	6327	22.01	702.00	155.91	1.02	2.70
1011E4	285945.56	4084282.55	6327	22.01	702.00	155.91	1.02	2.70
1011E9	285945.56	4084282.55	6327	22.01	702.00	155.91	1.02	2.70
1011E11	285945.56	4084282.55	6327	22.01	702.00	155.91	1.02	2.70
1057E1	287405.8	4089882.37	6455	22.01	702.00	154.99	1.02	2.70
1057E3	287406.55	4089892.94	6459	10.01	600.01	6.00	0.98	4.33
1057E6	287394.71	4089883.95	6454	6.99	800.01	133.01	0.20	0.20
1057E7	287396.36	4089875.8	6453	22.01	702.00	154.99	1.02	2.70
1034E17	278604.48	4074182.49	6258	22.01	702.00	156.00	0.98	4.60
1034E21	278604.48	4074182.49	6258	22.01	702.00	156.00	0.98	4.60
28640E2	275221.04	4071792.29	6831	12.01	1167.01	123.00	0.33	3.50
28640E3	275228.58	4071799.31	6831	22.97	854.33	91.86	0.98	0.40
39597E1	259258.94	4068779.04	6411	22.01	860.00	165.39	0.85	3.86
39597E2	259266.48	4068786.06	6408	22.01	860.00	165.39	0.85	3.86
39597E4	259252.09	4068787.52	6409	33.01	834.01	89.40	1.15	4.11
39597E8	259247.85	4068780.62	6412	33.01	834.01	89.40	1.15	4.11

Table 9
32-8#2 CDP - PM2.5 Surrounding Source Locations, Parameters and Emission Rates

Source	X Coord. (m)	Y Coord. (m)	Elevation (ft)	Height (ft)	Gas Temp. (deg F)	Velocity (ft/sec)	Diameter (ft)	PM2.5 Emissions (lb/hr)
28429E1	258457.63	4093227.15	6670	20.01	465.01	30.81	1.44	0.03
28429E2	258465.16	4093234.17	6671	20.01	465.01	30.81	1.44	0.03
27671E2	264786.16	4084843.87	6453	5.91	571.01	49.21	0.33	0.20
1193E2	271503.31	4087831.76	6617	41.99	759.99	179.10	1.51	0.40
1193E27	271503.31	4087831.76	6617	41.99	759.99	179.10	1.51	0.40
23708E1	255328.93	4086036.22	6451	15.85	489.99	22.01	0.98	0.25
23708E2	255336.46	4086043.24	6452	6.99	854.33	100.00	0.26	0.00
39121E1	258998.46	4082711.91	6511	5.91	0.00	49.21	0.33	0.02
39121E2	258991.67	4082715.46	6511	20.01	1350.00	123.88	0.26	0.00
39121E3	258984.07	4082713.37	6511	6.00	199.99	5.09	0.59	0.00
39121E4	258979.83	4082706.47	6510	6.00	199.99	5.09	0.59	0.00
39121E5	258981.48	4082698.32	6511	6.00	199.99	5.09	0.59	0.00
39121E6	258988.43	4082693.36	6511	6.00	199.99	5.09	0.59	0.00
1274E2	253699.82	4074781.73	5996	22.01	703.00	157.38	1.02	0.10
1274E3	253699.82	4074781.73	5996	22.01	703.00	157.38	1.02	0.10
1274E5	253699.82	4074781.73	5996	22.01	703.00	157.38	1.02	0.10
1274E6	253699.82	4074781.73	5996	22.01	703.00	157.38	1.02	0.10
1274E55	253699.82	4074781.73	5996	22.01	703.00	157.38	1.02	0.10
1274E56	253699.82	4074781.73	5996	22.01	703.00	157.38	1.02	0.10
1274E57	253699.82	4074781.73	5996	22.01	703.00	157.38	1.02	0.10
1038E15	271303.31	4073582.25	6896	39.99	780.01	179.10	1.48	0.19
1038E16	271310.85	4073589.27	6896	39.99	780.01	179.10	1.48	0.19
1038E17	271304.06	4073592.82	6896	39.99	780.01	179.10	1.48	0.19
1010E31	277904.88	4077502.62	6319	39.01	789.01	258.40	2.49	0.20
1010E32	277904.88	4077502.62	6319	39.01	789.01	258.40	2.49	0.20
1010E35	277904.88	4077502.62	6319	21.00	788.00	245.01	2.49	0.18
1010E36	277904.88	4077502.62	6319	21.00	788.00	245.01	2.49	0.18
10E35795	277904.88	4077502.62	6319	31.99	797.00	36.61	6.50	0.20
10E35796	277692.86	4077488.34	6332	21.00	811.00	253.22	2.49	0.23
10E35797	277699.81	4077483.38	6331	21.00	811.00	253.22	2.49	0.23
1319E11	241526.95	4084670.79	5997	22.01	842.00	112.70	3.41	0.23
36504E1	261076.11	4070233.78	6356	39.99	759.99	168.01	1.61	0.18
36504E2	266358.3	4070099.25	6294	39.99	759.99	168.01	1.61	0.18
989E10	266441.35	4073141.49	6038	39.99	759.99	168.01	1.61	0.18
989E15	266441.33	4073150.71	6040	39.99	759.99	168.01	1.61	0.18
989E30	266441.27	4073132.17	6037	39.99	759.99	168.01	1.61	0.18
1153E13	250699.07	4072781.72	5771	22.01	842.00	112.70	3.41	0.21
1011E42	285945.56	4084282.55	6327	19.00	600.01	6.00	0.82	0.01
1011E43	285945.56	4084282.55	6327	19.00	600.01	6.00	0.82	0.01
39597E1	259258.94	4068779.04	6411	22.01	860.00	165.39	0.85	0.13
39597E2	259266.48	4068786.06	6408	22.01	860.00	165.39	0.85	0.13

Table 9

32-8#2 CDP - PM2.5 Surrounding Source Locations, Parameters and Emission Rates

Source	X Coord. (m)	Y Coord. (m)	Elevation (ft)	Height (ft)	Gas Temp. (deg F)	Velocity (ft/sec)	Diameter (ft)	PM2.5 Emissions (lb/hr)
39597E4	259259.69	4068789.62	6408	33.01	834.01	89.40	1.15	0.14
39597E8	259252.09	4068787.52	6409	33.01	834.01	89.40	1.15	0.14

From: Peters, Eric, ENV <eric.peters@state.nm.us>
Sent: Thursday, April 21, 2022 09:53
To: Walter Konkel <wkonkel@elogicllc.com>
Cc: Oakley Hayes <Oakley.Hayes@harvestmidstream.com>
Subject: RE: [EXTERNAL] Dispersion Modeling Protocol and Modeling Waiver Request - Harvest Four Corners, LLC 32-8#2 Central Delivery Point

Understood.
Thank you,
Eric

Eric Peters, Air Dispersion Modeler
New Mexico Environment Department / Air Quality Bureau
525 Camino de Los Marquez - Suite 1 / Santa Fe, NM, 87505
Phone: 505-629-5299
E-mail: eric.peters@state.nm.us
www.env.nm.gov

From: Walter Konkel <wkonkel@elogicllc.com>
Sent: Thursday, April 21, 2022 10:09 AM
To: Peters, Eric, ENV <eric.peters@state.nm.us>
Cc: Oakley Hayes <Oakley.Hayes@harvestmidstream.com>
Subject: RE: [EXTERNAL] Dispersion Modeling Protocol and Modeling Waiver Request - Harvest Four Corners, LLC 32-8#2 Central Delivery Point

Eric – Thank you for the comments on the modeling protocol. It is acknowledged the PM10 and PM2.5 NAAQS modeling is to include facility sources, surrounding sources plus background concentrations.

Five years of Bloomfield meteorological data collected during 2015-2019 will be used in the modeling analyses. The background second high 24-hour PM10 concentration of 50.0 ug/m³ (representative of Four Corners Area) will be used in the NAAQS compliance demonstration.

Walter Konkel
[EcoLogic Environmental Consultants, LLC](#)
(805) 964-7597 (office)
(805) 284-4430 (mobile)

From: Peters, Eric, ENV <eric.peters@state.nm.us>
Sent: Thursday, April 21, 2022 08:32
To: Walter Konkel <wkonkel@elogicllc.com>
Cc: Oakley Hayes <Oakley.Hayes@harvestmidstream.com>
Subject: RE: [EXTERNAL] Dispersion Modeling Protocol and Modeling Waiver Request - Harvest Four Corners, LLC 32-8#2 Central Delivery Point

Walter,

I have reviewed the 32-8#2 CDP modeling protocol and have the following questions or comments.

Page 3 says, “(facility impacts plus background concentrations or facility and neighboring source impacts)”. The NM Modeling Guidelines requires both background concentration plus surrounding sources for particulate matter (PM10 and PM2.5).

Page 4 says, “Modeling will be conducted using Bloomfield meteorological data collected during 2015-2019.”

Page 6, in the notes below Table 4, says, “a single year of representative meteorological data is used in the modeling”.

Please clarify the number of years that will be used.

I approve the remainder of the protocol.

The approved modeling waiver for SO₂ (and VOCs) is attached.

Thanks,

Eric

Eric Peters, Air Dispersion Modeler
New Mexico Environment Department / Air Quality Bureau
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Phone: 505-629-5299
E-mail: eric.peters@state.nm.us
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864 Windsor Court
Santa Barbara, CA 93111
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April 11, 2022

Eric Peters
New Mexico Environment Department
Air Quality Bureau
525 Camino de los Marquez, Suite 1
Santa Fe, New Mexico 87505-1816

**Re: Air Dispersion Modeling Protocol
Harvest Four Corners, LLC – 32-8#2 Central Delivery Point**

Dear Mr. Peters:

Harvest Four Corners, LLC (H4C) is preparing to submit a construction permit application to the New Mexico Air Quality Bureau (NMAQB) requesting a modification to the 32-8#2 Central Delivery Point construction permit. In support of this permit application, air dispersion modeling will be conducted for nitrogen dioxide (NO₂), carbon monoxide (CO), particulate matter less than 10 microns in diameter (PM₁₀), and particulate matter less than 2.5 microns in diameter (PM_{2.5}) emissions to evaluate compliance with the National Ambient Air Quality Standards (NAAQS), New Mexico Ambient Air Quality Standards (NMAAQs), and Prevention of Significant Deterioration (PSD) increment consumption. This protocol outlines the proposed air dispersion modeling techniques that will be used to assess impacts surrounding the facility.

Introduction

The 32-8#2 Central Delivery Point (CDP) currently operates under a construction permit issued by the NMAQB, 1033-M5-R9, dated December 1, 2021. The permit approves operation of the following emission sources: twelve Waukesha 7042GL natural gas-fired compressor engines (Units 1-9 and 17-19) and seven triethylene glycol dehydrators (Units 10-16).

The proposed modifications in the application affecting NO_x, CO, PM₁₀ and PM_{2.5} emissions will be to replace five Waukesha 7042GL natural gas-fired compressor engines (Units 3-6 and 9) with five Waukesha 7044GSI natural gas-fired compressor engines (Units 3-6 and 9). The new compressor engines will be equipped with catalysts to control NO_x, CO and VOC emissions.

The proposed modifications in the application will also affect volatile organic compounds (VOC) and sulfur dioxide (SO₂) emissions. However, as modeling is not required for VOC emissions, and as SO₂ emissions are below the threshold for modeling, a modeling waiver (under separate cover) will be requested for these pollutants.

Facility

The 32-8#2 CDP is equipped to compress natural gas. After the proposed modifications, the following NO_x, CO, PM₁₀ and PM_{2.5} sources will be permitted to operate at the facility: seven Waukesha 7042GL natural gas-

fired compressor engines, five Waukesha 7044GSI natural gas-fired compressor engines, and seven triethylene glycol dehydrators. Table 1 identifies current allowable emissions, projected allowable emissions, and the change in emissions from the facility as a result of the modification:

Table 1
 32-8#2 CDP Allowable Emissions

Pollutant	Current Emissions (tons/yr)	Projected Emissions (tons/yr)	Emissions Change (tons/yr)
NO _x	142.88	141.83	-1.05
CO	232.67	194.60	-38.07
PM ₁₀	5.63	6.09	0.46
PM _{2.5}	5.63	6.09	0.46

The facility is located in Section 27, Range 8 West, Township 32 North, at approximately 262,880 meters Easting, 4,093,425 meters Northing, Zone 13, North American Datum 1983 (NAD83), at an elevation of approximately 6,720 feet above mean sea level. The facility is located in a rural area of San Juan County.

Standards

Table 2 identifies the applicable significant impact levels (SIL), NAAQS and NMAAQS:

Table 2
 SIL, NAAQS and NMAAQS

Pollutant	Averaging Period	SIL (µg/m ³)	NAAQS (µg/m ³)	NMAAQS (µg/m ³)
NO ₂	1-Hour	7.52	188.03	--
NO ₂	Annual	1.0	99.66	94.02
CO	1-Hour	2,000	40,069.6	14,997.5
CO	8-Hour	500	10,303.6	9,960.1
PM ₁₀	Annual	1.0	---	---
PM ₁₀	24-Hour	5.0	150	---
PM _{2.5}	Annual	0.2	12	---
PM _{2.5}	24-Hour	1.2	35	---

The high-eighth-high daily maximum 1-hour NO₂ concentration will be used to evaluate compliance with the NAAQS. Demonstration of compliance with 1-hour NO₂ standard is automatically a demonstration of compliance with the 24-hour NMAAQS; therefore, modeling of the 24-hour NO₂ standard will not be performed.

The CO NAAQS are not to be exceeded more than once per year. The CO NMAAQS are not to be exceeded. Therefore, compliance with the CO NMAAQS will demonstrate compliance with the CO NAAQS.

PM_{2.5} emission rates will be modeled as equal to PM₁₀ emission rates; therefore, the PM_{2.5} NAAQS demonstration will satisfy the requirement for demonstration of compliance with PM₁₀ NAAQS.

The facility is located in Air Quality Control Region 014, an attainment area for all pollutants; therefore, non-attainment modeling impacts will not be considered.

The 32-8#2 CDP will continue to be a PSD minor source (permitted NO₂, VOC, SO₂ and particulate emissions will not exceed 250 tons per year). If there are significant impacts, PSD increment consumption modeling will be conducted for NO₂ and PM₁₀. Table 3 identifies the allowable increment.

Table 3
Allowable PSD Increment

Pollutant	Averaging Period	Area Type	Allowable Increment (µg/m ³)
NO ₂	Annual	Class II	25
PM ₁₀	Annual	Class II	17
PM ₁₀	24-Hour	Class II	30

As there are no Class I areas located within 50 kilometers of the 32-8#2 CDP, the modeling of PSD increment consumption at nearby Class I areas will not be included in the analysis.

Dispersion Model

Both significant and cumulative impact modeling will be conducted using the latest version of the AMS/EPA Regulatory Model (AERMOD). The Beeline Software BEEST for Windows modeling manager will be used to prepare the input files and manage processing. Environmental Protection Agency (EPA) recommended defaults will be used. As the station is in a rural area, urban area modeling will not be conducted.

Methodology

The modeling will be conducted in accordance with this protocol and the NMAQB Air Dispersion Modeling Guidelines, Revised October 26, 2020. First, NO₂, CO, PM₁₀ and PM_{2.5} emissions from the five new 32-8#2 CDP compressor engines will be modeled to determine if there are significant impacts. For pollutant averaging periods where impacts are less than the SIL, no additional modeling will be conducted. Second, where pollutant impacts exceed the SIL, cumulative impacts for comparison with the NAAQS and NMAAQs will be determined using one of the methodologies identified in the modeling guidelines (facility impacts plus background concentrations or facility and neighboring source impacts). Third, where impacts exceed the SIL, cumulative impacts for comparison with allowable PSD increment consumption will be determined either using facility impacts plus background concentrations or facility and neighboring source impacts.

Facility Sources

The following 32-8#2 CDP sources will be included in the modeling evaluation: seven Waukesha 7042GL natural gas-fired reciprocating engines (Units 1-2, 7-8 and 17-19) and five Waukesha 7044GSI natural gas-fired reciprocating engines (Units 3-6 and 9).

The modeled emission rates will be the pounds per hour emission rates identified in the application. Modeling will be conducted using stack parameters provided by manufacturers as identified in the application.

There are no NO_x, CO or particulate startup, shutdown and maintenance (SSM) emissions associated with the sources.

Significant impact modeling will be conducted using the five new Waukesha 7044GSI natural gas-fired reciprocating engines. The NAAQS and NMAAQs cumulative impact modeling will be conducted using all reciprocating engines at the site.

PSD increment consumption modeling will be conducted using all facility sources, as they will all be installed after the AQCR 014 NO₂ and PM₁₀ minor source baseline dates. PM_{2.5} increment consumption modeling will not be performed as the minor source baseline date has not yet been established for AQCR 014.

Building Downwash

The EPA Building Profile Input Program-Prime (BPIP-Prime) will be used to evaluate structures for building downwash impacts. All structures close enough (of sufficient height and/or width) to produce downwash effects from the stacks will be included in the evaluation.

Receptor Selection

A Cartesian grid with variable receptor spacing will be used to evaluate significant impacts around the facility. The grid will contain receptors with 50-meter spacing along the fence line and from the fence line out to at least 500 meters, 100-meter spacing from the 500 meters beyond the fence line out to at least 1,000 meters, and 500-meter spacing from 1,000 meters beyond the fence line out to at least 3,000 meters. If significant impact areas extend beyond 3,000 meters from the fence line, the grid will also include receptors with 1,000-meter spacing sufficient to cover the entire significant impact area.

Cumulative impact modeling will be conducted using only those receptors from the grid defined in the paragraph above for which there were significant impacts. If maximum cumulative impacts greater than or equal to 75 percent of the applicable standard are calculated at receptors located in the 100-meter, 500-meter or 1,000-meter interval portions of the grid, then refined grids with 50-meter spacing will be centered on these receptors to identify the local high. These refined grids will be large enough to include adjacent receptors in all directions (200 meters square in the 100-meter interval portion of the grid, 1,000 meters square in the 500-meter interval portion of the grid and 2,000 meters square in the 1,000-meter interval portion of the grid).

The coordinate system used to reference receptor locations will be of the UTM convention (NAD83). Terrain elevation data will be obtained from Digital Elevation Model (DEM) files or National Elevation Dataset (NED) files with a minimum resolution of 30 meters. The AERMOD Terrain Preprocessor (AERMAP) will be used to calculate the receptor elevations and terrain maximums. The domain used to calculate terrain maximums will be sufficient to identify all terrain nodes that create a slope greater than or equal to 10 percent.

Meteorological Data

Modeling will be conducted using Bloomfield meteorological data collected during 2015-2019. The data will be obtained from the NMAQB web site. The profile base elevation will be set at 1,713 meters above mean sea level.

The 32-8#2 CDP is located on a mesa, oriented, in general, along a line from southwest to northeast. To the north through northeast, the terrain rises. To the southwest, the terrain drops into Jaquez Canyon. Albino Canyon, in general, flows down to the east and southeast. Jaquez Canyon, in general, flows down to the

southwest. Much of the terrain to the north of the station has an elevation higher than the area immediately surrounding the station. It is assumed the Jaquez and Albino Canyons are the predominant features affecting wind flow in the area.

Three meteorological data sets were evaluated for use with the modeling analysis: Bloomfield data, Farmington data and Navajo Lake data. The criteria used to select the appropriate meteorological data set are as follows:

- A wind rose plot of the 2015-2019 Bloomfield meteorological data shows predominant flows from the north, west through southwest, and east-northeast. While this data is not ideal, it seems to have the most flow running in the general direction of the nearby canyons (west, west-southwest, southwest, north and north-northeast). The predominant moderate west and east-northeast flows as well as light northerly flow seem to best represent the terrain surrounding the facility.
- A wind rose plot of the 2011-2015 Farmington meteorological data show predominant flows from the west and east. The Farmington data was collected at the airport which sits on top of a small mesa (similar in some respects to the 32-8#2 CDP); however, the Farmington data lack the northerly flow one would expect in the vicinity of the facility.
- A wind rose plot of the 2015-2016 Navajo Lake meteorological data show predominant flows from the east and west only. The Navajo Lake data lack the northerly drainage flow one would expect in the vicinity of the facility.

Neighboring Sources

Cumulative impacts to demonstrate compliance with the NO₂, CO, PM₁₀ and PM_{2.5} NAAQS may be calculated as facility impacts plus background concentrations or may be calculated as facility impacts plus neighboring source impacts. Therefore, neighboring sources may be used to evaluate compliance. For NO₂, CO, PM₁₀ and PM_{2.5} NAAQS modeling, neighboring sources include all sources within 25 kilometers of the facility and all sources between 25 and 50 kilometers from the facility that are permitted to emit 1,000 pounds per hour or more.

Where used, neighboring sources will be obtained from the NMAQB.

Background Concentrations

Where impacts exceed the SIL, cumulative impacts for comparison with the NAAQS may be calculated as station impacts plus background concentrations as identified in the NMAQB modeling guidelines. If this method is utilized, background concentrations will be obtained from the modeling guidelines. Table 4 below identifies the applicable background concentrations that will be used.

Table 4
Background Concentrations

Pollutant	Averaging Period	Background ($\mu\text{g}/\text{m}^3$)	Source ID
NO ₂	1-Hour	52.1	1NL
NO ₂	Annual	11.0	1NL
CO	1-Hour	2,203	350010023
CO	8-Hour	1,524	350010023
PM ₁₀	Annual	13.0	1ZB
PM ₁₀	24-Hour	50.0	1ZB
PM _{2.5}	Annual	4.19	1FO
PM _{2.5}	24-Hour	11.77	1FO

The NO₂ data is obtained from Table 16 of the NMAQB modeling guidelines and the 1-hour background is the 98th percentile concentration. Since it is nearest the facility, NO₂ data is taken from the Navajo Dam monitoring station.

The CO data is obtained from Table 15 of the NMAQB modeling guidelines and is recommended for areas outside of Albuquerque and Sunland Park.

The PM_{2.5} data is obtained from Table 18 of the modeling guidelines and the 24-hour background is the 98th percentile concentration. Consistent with direction provided in the Table, the PM_{2.5} data are representative of the Four Corners Area.

The PM₁₀ data is obtained from Table 19 of the modeling guidelines with the 24-hour concentration representing the high second high as a single year of representative meteorological data is used in the modeling.

If a more refined approach is needed to demonstrate compliance, it will be coordinated with the NMAQB.

NO_x TO NO₂ CONVERSION

NO_x impacts will be converted to NO₂ impacts using the Ambient Ratio Method 2 (ARM2). ARM2 provides estimates of representative equilibrium ratios of NO₂/NO_x based on ambient levels of NO₂ and NO_x derived from national data from the EPA's Air Quality System. The national defaults for ARM2 will be used including a minimum ambient NO₂/NO_x ratio of 0.5 and a maximum ambient NO₂/NO_x ratio of 0.9. If an NO₂/NO_x ratio of less than 0.5 is used, justification will be provided. If a more refined approach such as the Ozone Limiting Method (OLM) or Plume Volume Molar Ratio Method (PVMRM) is needed to demonstrate compliance with the 1-hour NO₂ standard, it will be coordinated with the NMAQB.

Eric Peters
NMED-AQB
April 11, 2022
Page 7

We request your approval of this protocol prior to our proceeding with the modeling analysis. If you have any questions or comments, please contact me at (805) 964-7597 or by email at wkonkel@ellogicllc.com. Thank you for your attention in this matter.

Sincerely,

EcoLogic Environmental Consultants, LLC



Walter H. Konkel III

cc: Oakley Hayes, H4C

New Mexico Environment Department Air Quality Bureau Modeling Section 525 Camino de Los Marquez - Suite 1 Santa Fe, NM 87505 Phone: (505) 476-4300 Fax: (505) 476-4375 www.env.nm.gov/aqb/		For Department use only: Approved by: Eric Peters Date: April 20, 2022
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Air Dispersion Modeling Waiver Request Form

This form must be completed and submitted with all air dispersion modeling waiver requests.

If an air permit application requires air dispersion modeling, in some cases the demonstration that ambient air quality standards and Prevention of Significant Deterioration (PSD) increments will not be violated can be satisfied with a discussion of previous modeling. The purpose of this form is to document and streamline requests to certify that previous modeling satisfies all or some of the current modeling requirements. The criteria for requesting and approving modeling waivers is found in the Air Quality Bureau Modeling Guidelines. Typically, only construction permit applications submitted per 20.2.72, 20.2.74, or 20.2.79 NMAC require air dispersion modeling. However, modeling is sometimes also required for a Title V permit application.

A waiver may be requested by e-mailing this completed form in **MS Word** format to the modeling manager, sufi.mustafa@state.nm.us.

This modeling waiver is not valid if the emission rates in the application are higher than those listed in the approved waiver request.

Section 1 and Table 1: Contact and facility information:

Contact name	Walter Konkel
E-mail Address:	wkonkel@ellogicllc.com
Phone	805-964-7597
Facility Name	32-8#2 Central Delivery Point
Air Quality Permit Number(s)	1033-M5-R9
Agency Interest Number (if known)	1236
Latitude and longitude of facility (decimal degrees)	36.9569, -107.6631

General Comments: (Add introductory remarks or comments here, including the purpose of and type of permit application.)

Harvest Four Corners, LLC (H4C) is preparing to submit a construction permit application to modify the 32-8#2 Central Delivery Point. The facility is currently permitted to operate the following combustion sources: twelve Waukesha 7042GL natural gas-fired compressor engines (Units 1-9 and 17-19). The proposed modification in the application affecting NOx, CO, PM10 and PM2.5 emissions will be to replace five Waukesha 7042GL natural gas-fired compressor engines (Units 3-6 and 9) with five Waukesha 7044GSI natural gas-fired compressor engines (Units 3-6 and 9). The new compressor engines will be equipped with catalysts to control NOx, CO and VOC emissions. The facility will remain a prevention of significant deterioration (PSD) minor source. The application will include a modeling analysis for nitrogen dioxide (NO2), carbon monoxide (CO), particulate matter less than 10 microns in diameter (PM10), and particulate matter less than 2.5 microns in diameter (PM2.5) emissions. As modeling of VOC is not required for PSD minor sources, and as the facility total sulfur dioxide (SO2) emission rates will remain below the thresholds for modeling, H4C requests a modeling waiver for VOC and SO2.

Section 2 – List All Regulated Pollutants from the Entire Facility - Required

In Table 2, below, list all regulated air pollutants emitted from your facility, except for New Mexico Toxic Air Pollutants, which are listed in Table 6 of this form. All pollutants emitted from the facility must be listed regardless if a modeling waiver is requested for that pollutant or if the pollutant emission rate is subject to the proposed permit changes.

Table 2: Air Pollutant summary table (Check all that apply. Include all pollutants emitted by the facility):

Pollutant	Pollutant is not emitted at the facility and modeling or waiver are not required.	Pollutant does not increase in emission rate at any emission unit (based on levels currently in the permit) and stack parameters are unchanged. Modeling or waiver are not required.	Stack parameters or stack location has changed.	Pollutant is new to the permit, but already emitted at the facility.	Pollutant is increased at any emission unit (based on levels currently in the permit).	A modeling waiver is being requested for this pollutant.	Modeling for this pollutant will be included in the permit application.
CO							X
NO ₂							X
SO ₂						X	
PM10							X
PM2.5							X

Section 3: Facility wide pollutants, other than NMTAPs, with very low emission rates

The Air Quality Bureau has performed generic modeling to demonstrate that small sources, as listed in Appendix 2 of this form, do not need computer modeling. After comparing the facility's emission rates for various pollutants to Appendix 2, please list in Table 3 the pollutants that do not need to be modeled because of very low emission rates.

Section 3 Comments. (If you are not requesting a waiver for any pollutants based on their low emission rate, then note that here. You do not need to complete the rest of Section 3 or Table 3.)

Table 3: List of Pollutants with very low facility-wide emission rates

Pollutant	Requested Allowable Emission Rate From Facility (pounds/hour)	Release Type (select "all from stacks >20 ft" or "other")	Waiver Threshold (from appendix 2) (lb/hr)
SO ₂	0.08	All from stacks	2.0

Section 4: Pollutants that have previously been modeled at equal or higher emission rates

Not Applicable

Section 5: Modeling waiver using scaled emission rates and scaled concentrations

Not Applicable

Section 6: New Mexico Toxic air pollutants – 20.2.72.400 NMAC

Section 7: Approval or Disapproval of Modeling Waiver

The AQB air dispersion modeler should list each pollutant for which the modeling waiver is approved, the reasons why, and any other relevant information. If not approved, this area may be used to document that decision.

The modeling waiver is approved for SO₂. The NMED has generic modeling that demonstrates the quantity and description of SO₂ emissions emitted by the facility will not cause or contribute to violations of air quality standards or PSD increments.

VOC emissions currently have no modeling requirements, so no modeling or modeling waiver is required for VOCs.

Appendix 1: Stack Height Release Correction Factor (adapted from 20.2.72.502 NMAC)

Release Height in Meters	Correction Factor
0 to 9.9	1
10 to 19.9	5
20 to 29.9	19
30 to 39.9	41
40 to 49.9	71
50 to 59.9	108
60 to 69.9	152
70 to 79.9	202
80 to 89.9	255
90 to 99.9	317
100 to 109.9	378
110 to 119.9	451
120 to 129.9	533
130 to 139.9	617
140 to 149.9	690
150 to 159.9	781
160 to 169.9	837
170 to 179.9	902
180 to 189.9	1002
190 to 199.9	1066
200 or greater	1161

Appendix 2. Very small emission rate modeling waiver requirements

Modeling is waived if emissions of a pollutant for the entire facility (including haul roads) are below the amount:

Pollutant	If all emissions come from stacks 20 feet or greater in height and there are no horizontal stacks or raincaps (lb/hr)	If not all emissions come from stacks 20 feet or greater in height, or there are horizontal stacks, raincaps, volume, or area sources (lb/hr)
CO	50	2
H ₂ S (Pecos-Permian Basin)	0.1	0.02
H ₂ S (Not in Pecos-Permian Basin)	0.01	0.002
Lead	No waiver	No waiver
NO ₂	2	0.025
PM _{2.5}	0.3	0.015
PM ₁₀	1.0	0.05
SO ₂	2	0.025
Reduced sulfur (Pecos-Permian Basin)	0.033	No waiver
Reduced sulfur (Not in Pecos-Permian Basin)	No waiver	No waiver

Section 17

Compliance Test History

(Submitting under 20.2.70, 20.2.72, 20.2.74 NMAC)

To show compliance with existing NSR permits conditions, you must submit a compliance test history. The table below provides an example.

To save paper and to standardize the application format, delete this sentence and the samples in the Compliance Test History Table, and begin your submittal for this attachment on this page.

Compliance Test History Table

Unit No.	Test Description	Test Date
1	NOX and CO testing in accordance with Condition 201.A	08/02/2021
2	NOX and CO testing in accordance with Condition 201.A	08/02/2021
3	NOX and CO testing in accordance with Condition 201.A	08/03/2021
4	NOX and CO testing in accordance with Condition 201.A	08/03/2021
5	NOX and CO testing in accordance with Condition 201.A	08/04/2021
6	NOX and CO testing in accordance with Condition 201.A	07/09/2021
7	NOX and CO testing in accordance with Condition 201.A	--
8	NOX and CO testing in accordance with Condition 201.A	Not Installed
9	NOX and CO testing in accordance with Condition 201.A	11/01/2021
17	NOX and CO testing in accordance with Condition 201.A	11/01/2021
18	NOX and CO testing in accordance with Condition 201.A	11/01/2021
19	NOX and CO testing in accordance with Condition 201.A	Not Installed
1,2	Tested in accordance with EPA test methods for NOx and CO as required by Title V permit P500.	4/13/2004
3	Tested in accordance with EPA test methods for NOx and CO as required by NSR permit 2923M1.	5/12/2005

Unit 7 has not operated for many years.

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Section 18

Addendum for Streamline Applications

Do not print this section unless this is a streamline application.

Streamline Applications do not require a complete application. Submit Sections 1-A, 1-B, 1-D, 1-F, 1-G, 2-A, 2-C thru L, Sections 3 thru 8, Section 13, Section 18, Section 22, and Section 23 (Certification). Other sections may be required at the discretion of the Department. 20.2.72.202 NMAC Exemptions do not apply to Streamline sources. 20.2.72.219 NMAC revisions and modifications do not apply to Streamline sources, thus 20.2.72.219 type actions require a complete new application submittal. Please do not print sections of a streamline application that are not required.

Not applicable, as this is not a streamline application.

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Section 19

Requirements for Title V Program

Do not print this section unless this is a Title V application.

Who Must Use this Attachment:

- * Any major source as defined in 20.2.70 NMAC.
 - * Any source, including an area source, subject to a standard or other requirement promulgated under Section 111 - Standards of Performance for New Stationary Sources, or Section 112 Hazardous Air Pollutants, of the 1990 federal Clean Air Act ("federal Act"). Non-major sources subject to Sections 111 or 112 of the federal Act are exempt from the obligation to obtain an 20.2.70 NMAC operating permit until such time that the EPA Administrator completes rulemakings that require such sources to obtain operating permits. In addition, sources that would be required to obtain an operating permit solely because they are subject to regulations or requirements under Section 112(r) of the federal Act are exempt from the requirement to obtain an Operating Permit.
 - * Any Acid Rain source as defined under title IV of the federal Act. The Acid Rain program has additional forms. See <http://www.env.nm.gov/aqb/index.html>. Sources that are subject to both the Title V and Acid Rain regulations are encouraged to submit both applications simultaneously.
 - * Any source in a source category designated by the EPA Administrator ("Administrator"), in whole or in part, by regulation, after notice and comment.
-

Not applicable as this is not a Title V permit application.

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Section 20

Other Relevant Information

Other relevant information. Use this attachment to clarify any part in the application that you think needs explaining. Reference the section, table, column, and/or field. Include any additional text, tables, calculations or clarifying information.

Additionally, the applicant may propose specific permit language for AQB consideration. In the case of a revision to an existing permit, the applicant should provide the old language and the new language in track changes format to highlight the proposed changes. If proposing language for a new facility or language for a new unit, submit the proposed operating condition(s), along with the associated monitoring, recordkeeping, and reporting conditions. In either case, please limit the proposed language to the affected portion of the permit.

Not applicable, as no other relevant information is being provided.

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Section 21

Addendum for Landfill Applications

Do not print this section unless this is a landfill application.

Landfill Applications are not required to complete Sections 1-C Input Capacity and Production Rate, 1-E Operating Schedule, 17 Compliance Test History, and 18 Streamline Applications. Section 12 – PSD Applicability is required only for Landfills with Gas Collection and Control Systems and/or landfills with other non-fugitive stationary sources of air emissions such as engines, turbines, boilers, heaters. All other Sections of the Universal Application Form are required.

EPA Background Information for MSW Landfill Air Quality Regulations:

<https://www3.epa.gov/airtoxics/landfill/landflpg.html>

NM Solid Waste Bureau Website: <https://www.env.nm.gov/swb/>

Not applicable, as the facility is not a landfill.

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Section 22: Certification

Company Name: Harvest Four Corners, LLC

I, Oakley Hayes, hereby certify that the information and data submitted in this application are true and as accurate as possible, to the best of my knowledge and professional expertise and experience.

Signed this 20th day of May, 2022, upon my oath or affirmation, before a notary of the State of

New Mexico.

Oakley Hayes
*Signature

5/20/2022
Date

Oakley Hayes
Printed Name

Environmental Specialist
Title

Scribed and sworn before me on this 20th day of May, 2022.

My authorization as a notary of the State of New Mexico expires on the

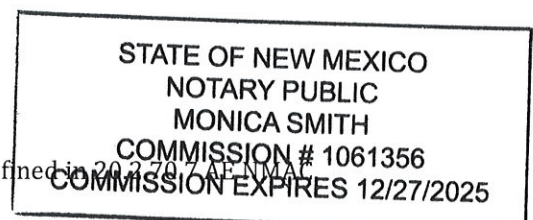
27th MS December 2025 MS
~~20th~~ day of ~~May~~, ~~2022~~.

Monica Smith
Notary's Signature

5/20/2022
Date

Monica Smith
Notary's Printed Name

*For Title V applications, the signature must be of the Responsible Official as defined in 20.2.70.2 APNMA.



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