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Scotts Miracle-Gro

Established 1868, Marysville, Ohio

February 28, 2025

Johnny Bowers
Air Permits Initial Review Team, MC-161
Air Permits Division
Texas Commission on Environmental Quality
P.O. Box 13087
Austin, Texas 78711-3087

Re: PBR 261 Annual Notification
Morbark Portable Tub Grinder, SN 572-1543, RN109745489, PBR 146315L004
Hyponex Corporation, CN600419238

Dear Mr. Bowers:

Enclosed please find an original PI-7 form and attachments to authorize emissions from the Morbark portable tub grinder and associated material handling at two of Hyponex Corporation's facilities: Scotts Hyponex Tyler (RN106868953) and Hyponex Huntsville (RN101064079) using Permit-by-Rule 261(a)(7)(B).

If you have any questions concerning this PBR 261 annual notification, please contact me at (903) 730-8625 or tony.chavez@scotts.com or Scotts' technical contact on this project, Bryan Allen, at (903) 651-6064 or bryan.allen@scotts.com.

Sincerely,

Tony Chavez
Plant Manager

Enclosure (PI-7 form and attachments)

cc: Michelle Baetz, Air Section Manager, TCEQ Region 5
Joseph Doby, Air Section Manager, TCEQ Region 12
Bryan Allen, Regional Environmental Health and Safety Manager
Shaun Pfeil, Plant Manager, Hyponex Huntsville, TX

Registration for Permits by Rule
Form PI-7 Instructions
Texas Commission on Environmental Quality

Table of Contents

Introduction

The primary purpose of the Form PI-7 is to provide all administrative and technical information needed by the Air Permit Division (APD) to evaluate Permit by Rule (PBR) claims. These instructions are intended for use by applicants and consultants to help you prepare a complete PBR request. The review of your project will go faster if you provide all necessary documents and information requested in the Form PI-7 and in the Core Data Form (TCEQ No. 10400).

This form should only be used if certification and federally enforceable emission limits are not needed. If the facility is registering under a PBR and needs to establish federally enforceable emission limits, use the Form PI-7-CERT. If a facility meets a historical Standard Exemption, or is otherwise authorized by a permit action, but needs to establish a federally enforceable limit, the Form APD-CERT entitled Certification of Emission Limits (**not** Form PI-7-CERT) should be used.

For more information about certification versus registration see our Certification Fact Sheet on our Fact Sheets for Permits by Rule web page at www.tceq.texas.gov/permitting/air/guidance/pbr/pbr_factsheets.html.

Overview

Texas Commission on Environmental Quality (TCEQ) regulates facilities that release air contaminants, even in small amounts, under its air permit rules. Facilities with emissions that do not meet de minimis criteria but will not make a significant contribution of air contaminants to the atmosphere may be permitted by rule. Facilities authorized by PBR must be constructed and operated with certain restrictions.

A PBR claim must meet both the general and specific requirements in Title 30 Texas Administrative Code (30 TAC) Chapter 106 but does not require an extensive technical review. See the Fact Sheet - Air Quality Permitting at www.tceq.texas.gov/assets/public/permitting/air/factsheets/permit_factsheet.pdf for a list of all potential air permit authorizations. Refer to the Decision Support System at www.tceq.texas.gov/permitting/air/nav/air_supportsys.html for additional information to assist you in determining some of the other state or federal requirements you may need to know.

Note: As of June 1, 2014, all PBR registration responses will be sent via email within one business day of TCEQ's decision.

ePermits:
As of February 1, 2018, the TCEQ requires the use of the online TCEQ e-Services system. (Memo - Permits by Rule and Standard Permit Registration Application Procedures - August 2017) To register your PBR, pay PBR registration fees, and receive PBR registrations please use the TCEQ e-Services system at www.tceq.texas.gov/e-services.

- All PBRs, are required to use the ePermits system. Hard copies of applications will not be accepted.
- To use the online system, you need to have an active State of Texas Environmental Electronic Reporting System (STEERS) account. Access STEERS at www3.tceq.texas.gov/steers/. For help with ePermits refer to the TCEQ STEERS ePermits Help web page at www3.tceq.texas.gov/steers/help/epr/eprmain.html.

A PBR may be claimed when both the following conditions are met:

1. the facility meets **all** applicable requirements of **30 TAC § 106.4**. These requirements limit the amount of annual emissions to less than federal permit major source levels, and require compliance with all state and federal regulations; and
2. the facility meets **all** applicable conditions of one or more individual PBRs contained in **30 TAC Chapter 106.** These requirements may specify design requirements for certain facilities, production or material use limits, and operational restrictions.

To claim a PBR, you may:

1. begin construction immediately if the PBR does not require registration;
2. begin construction when the Form PI-7 and attachments are submitted to the TCEQ if the PBR requires registration, but does not require site approval; or
3. not begin construction until you are notified by the TCEQ if the PBR requires registration and written site approval. If you are already operating and still need an air authorization, you should begin steps to seek an authorization.

Keeping Records

Once a PBR is claimed and/or registered, you should:

1. maintain sufficient records to demonstrate compliance with the annual emissions limits; and
2. maintain sufficient records to demonstrate compliance with the emission limits and specific conditions of the PBR. Refer to the applicable PBR checklist for records retention guidance.

Tips for a Speedy Administrative Review

The administrative review process will be more efficient and streamlined if you follow the suggestions outlined in the Fact Sheet – Tips for a Speedy Administrative Review at www.tceq.texas.gov/permitting/air/guidance/permit-factsheets.html.

Small Business Information and Agency Contacts

For agency contacts, see Contact Information for Air Permit Applications (including Environmental Assistance Division) by selecting the Who to go to for specific questions on air permit applications link

Instructions for Form PI-7

These instructions are provided to assist the regulated community to accurately complete a registration request to claim a PBR.

I. Registrant Information

A. Company or Other Legal Customer Name:
Registrations are claimed by either the facility owner or operator, commonly referred to as the "registrant." List the legal name of the company, corporation, partnership, or person who is claiming the PBR. Applicants can verify the legal name with the Texas Secretary of State at (512) 463-5555 or at www.sos.state.tx.us. The TCEQ will also verify the legal name with the Texas Secretary of State. You may be asked to correct the name provided on the Form PI-7, if found to be different. In some cases, we may request a copy of the legal document forming the entity to verify the legal name; for example: general partnership filed with the county.

B. Company Official Contact Information:
Provide the name, title, mailing address, telephone number, fax number, and email address of the company official contact. The company official must not be a consultant. It is important to provide the email address since copies of registrations will be **emailed**. All PBR registration responses will be sent via email within one business day of TCEQ's decision.

C. Technical Contact Information:
Provide the name, title, company, mailing address, telephone number, fax number, and email address of the person TCEQ should contact for technical questions. This person must have the authority to make binding agreements and representations on behalf of the registrant. The technical contact may be a consultant.

II. Facility and Site Information

A. Name and Type of Facility:
Enter the name of the facility for which the PBR is being claimed. The name should be descriptive and indicate the general type of operation, manufacturing process, equipment, or facility which would be authorized under the PBR (include any numerical designation, if appropriate). The name must be descriptive and specific. Examples of acceptable names are "Sulfuric Acid Plant," "No. 5 Steam Boiler," "Electric Arc Furnace No. 2," and "Fiberglass Boat Manufacturing Facility." Vague names such as "Chemical Plant" and "North Process Area" are not acceptable names. Also, check the appropriate box indicating the type of facility as either permanent or temporary. Hot mix asphalt plants and trench burners are typical temporary facilities; a petroleum storage tank would be considered permanent. For portable units, please provide the serial number(s) of the equipment being authorized.

B. Facility Location Information:
Provide the street address of the facility, if available. If there is no street address, describe the physical location with specific written directions. Identify the location by distance and direction from well-known landmarks, such as highway intersections. It is very important to also include the city and county where the facility will be located. If the address is not located in a city, then enter the city or town closest to the facility even if it is not in the same county as the facility. The county indicated must be the county where the facility is physically located. Please include the ZIP Code of the physical facility site, not the ZIP Code of the applicant's mailing address. In some cases, the TCEQ may request a map showing the location of the facility during the review of the PBR registration.

C. TCEQ Core Data Form:
We require that you submit a Core Data Form (TCEQ Form Number 10400) on all incoming applications unless the following are met:

1. Regulated Entity and Customer Reference Numbers have been issued by the TCEQ and;
2. No core data information has changed.
   Information required on the Core Data Form includes the following:
   - Customer Reference Number (CN): This is a unique number given to each business, governmental body, association, individual, or other entity that owns, operates, is responsible for, or is affiliated with a regulated entity. We assign the CN when a Core Data Form is initially submitted.
   - Regulated Entity Number (RN): This is a unique agency assigned number given to each person, organization, place, or thing that is of environmental interest to us and where regulated activities will occur. The RN is assigned when a Core Data Form is initially submitted, if the agency has conducted an investigation, or if the agency has issued an enforcement action. The RN replaces existing air account numbers. The RN for portable units is assigned to the unit itself, and that same RN should be used

when applying for authorization at a different location.

Note: *The company and facility site information provided on the Core Data Form must be the same as provided on the Form PI-7.*

D. TCEQ Account Identification Number:
This number was assigned by the TCEQ to the entire property owned or controlled by the applicant at a specific location. A typical example of an air quality account number is JB-1234-R. Portable facilities are assigned account identification numbers which begin with a number, such as 92-1234-K. Provide your TCEQ account identification number if known.

E. Type of Action:
Indicate the type of action being requested by checking the appropriate box. Check:

- *Initial Application* – if the facility has not previously been authorized by a permit by rule.
- *Change to Registration* – if the facility has been previously registered, but changes or additions have occurred.

Provide the existing registration number if Change to Registration is checked.

F. Permit by Rule Number(s) Claimed under 30 TAC Chapter 106:
Provide the individual rule number(s) that are being claimed. The Form PI-7 can be used to register more than one PBR at a time.

G. Historical Standard Exemption or PBR:
Indicate if you are claiming a historical standard exemption or PBR. If "YES," enter the rule number(s) and the associated effective date.

H. Previous Standard Exemption or PBR Registration Number:
If this registration is for a change to an existing facility previously authorized under a standard exemption or PBR, list the previous standard exemption number(s) or PBR registration number(s), and the associated effective date. Also attach additional information on whether the facility still meets the previous standard exemption or PBR, or whether a new registration is required and the previous standard exemption or PBR should be voided.

I. Other Facilities at this Site Authorized by Standard Exemption, PBR, or Standard Permit:
To properly track how this registration may relate to other authorizations or compliance with TCEQ PBR regulations, it is important to list all standard exemption number(s), PBR registration number(s), or Standard Permit registration number(s), and the associated effective date.

J. Other Air Preconstruction Permits:
If the registration is located at a site that has any other minor or federal NSR air preconstruction permits, list all permit numbers.

K. Affected Air Preconstruction Permits:
If the PBR being claimed directly affects any permitted facility, list the affected preconstruction permit numbers.

L. Federal Operating Permit (FOP) Requirements (30 TAC Chapter 122 Applicability):
Information and guidance on applicability of 30 TAC Chapter 122 can be accessed on our Program Applicability web page at www.tceq.texas.gov/permitting/air/titlev/pro_applicability.html.

1. If this PBR results in an increase in the site's potential-to-emit and renders the site a major source as defined in 30 TAC Chapter 122, an FOP application is required. Check the appropriate box if you are submitting a GOP or SOP application or revision application. Guidance on submitting these applications is available on the Guidance for Title V Operating Permits web page at www.tceq.texas.gov/permitting/air/nav/air_titlevopperm.html.

2. Identify the type(s) of FOP(s) issued for the site by checking the appropriate box. In addition, check the appropriate box if any General Operating Permit (GOP) or Site Operating Permit (SOP) application(s) for the site, including revision applications, is currently under review.

If you have questions about the applicability of 30 TAC Chapter 122 or impact of this Form PI-7 on your existing FOP, please contact the TCEQ APD at (512) 239-1250, and ask to speak with someone in the Operating Permits Section.

III. Fee Information

The TCEQ has a fee for all air quality PBR registrations (30 TAC§ 106.50). If a new facility, or changes to an existing facility, meets the conditions of a PBR that does *not* require registration, but the owner/operator wishes to have the TCEQ review and confirm that the facility meets the conditions of the PBR, a fee is required. The fee requirements do not allow for PBR fee refunds.

All fees must be paid prior to processing any PBR registration. All fees must be paid through the TCEQ online payment application (ePay) located at www3.tceq.texas.gov/epay/.

See the Permits by Rule (PBR) Registration Fees Fact Sheet for a summary of requirements and exceptions for fees in 30 TAC § 106.50.

A. Fee Requirements:

There are three exceptions to paying a PBR fee, as described below.

1. A facility applying for a PBR does not have to pay a fee if the registration is *solely* to establish a federally enforceable emission limit using an APD-CERT. If a registration is for construction or modification of a facility, which has not been previously reviewed by the TCEQ, a fee is required.
2. If a company is addressing any deficiencies that were requested in the initial review the company has 6 months to resubmit without paying an additional fee.
3. A facility applying for a PBR does not have to pay a fee if the registration is for a remediation project (30 TAC § 106.533). For more information about remediation projects see our Checklist for Water and Soil Remediation, 30 TAC § 106.533 (TCEQ Form - 10148) at www.tceq.texas.gov/permitting/air/forms/permitbyrule/checklist/sub_x_checklists.html.

B. Fee Amount:

There are two fee amounts possible under the rules, as follows:

1. An owner/operator of a small business (corporation, partnership, sole proprietorship) that is independently owned and operated, formed for the purpose of making a profit, has fewer than 100 employees *or* less than $6 million in annual gross receipts is required to submit a $100.00 fee. In addition, an owner/operator that is a governmental entity (city, township, school district) with a population less than 10,000 according to the most recent census is required to submit a $100.00 fee. Finally, non-profit organizations pay a $100.00 fee.
2. All other registrations are required to submit a $450.00 fee.

C. Payment Information:

Enter the voucher number from ePay, the individual or company name, and the fee amount paid for this registration. If the payment is for a portable facility, enter the check, money order, or transaction number and the individual or company name printed on the check.

IV. Selected Facility Reviews and Voluntary Registrations *Only*

A. Voluntary Registrations:

Some PBRs do not require registration, but owners and operators may voluntarily choose to register these facilities. The owners and operators must keep records according to 30 TAC § 106.8 to demonstrate compliance with every claimed PBR, and the general requirements. The TCEQ requires the use of the online TCEQ e-Services system at www.tceq.texas.gov/e-services to voluntarily register your PBR.

B. PBR Checklists:

For the following types of facilities, we request that you provide the appropriate PBR checklist to demonstrate that your facility meets all general and specific PBR requirements. If a checklist is not included, then you must provide the requirements of Section V.

- Animal Feeding Operations (30 TAC § 106.161)
- Livestock Auction Facilities (30 TAC § 106.162)
- Saw Mills (30 TAC § 106.223)
- Grain Handling, Storage and Drying (30 TAC § 106.283)
- Auto Body Refinishing Facilities (30 TAC § 106.436)
- Air Curtain Incinerators (30 TAC § 106.496)

C. Distances to Property Line and Nearest Off-Property Structure:

Instead of an area map and plot plan, the TCEQ is requesting distance information. The distance from the facility's emission release point to the nearest property line and off-property structure should be provided. This information is needed, as many PBRs have very specific distance limitations.

Note: *In limited cases, a map or drawing of the site and surrounding land use may be requested during the technical review or by the TCEQ Regional office or the local air pollution control program during an investigation.*

V. Technical Information Including State and Federal Regulatory Requirements

If any of the technical information below is not included with this submittal, it may result in a deficiency of the project. Additionally, any essential information (lab analysis, NAAQS compliance demonstrations, etc.) that is needed to confirm that facilities are meeting the requirements of the PBR, must also be included. Attachments should include detailed demonstrations of compliance with all requirements.

A. PBR Requirements:

You must demonstrate compliance with the following:

- General requirements in 30 TAC § 106.4, and
- Individual requirements of the specific PBR.

To assist you with preparing technical information, review our Air Permits by Rule Applicability Quick Checklist or Full Checklist at www.tceq.texas.gov/permitting/air/forms/permitbyrule/checklist/applicability_checklists.html and the Registration Checklists for Permits by Rule web page at www.tceq.texas.gov/permitting/air/forms/permitbyrule/checklist/pbr_checlists_index.html. These checklists contain important information on emission limits, typical methods to calculate emissions, records retention, and other state and federal rules, regulations, and standards that may apply to your facility. *Use of the checklists is optional; however, your review will go faster if you supply the applicable checklists*.

B. Confidential Information:

Texas Health and Safety Code, §382.041 requires us not to disclose any information related to manufacturing processes that is marked Confidential. Mark any information related to secret or proprietary processes or methods of manufacture as "Confidential," if you do not want this information in the public file. All confidential information should be separated from the PBR registration and submitted as a separate file within the same submittal. Additional information regarding confidential information can be found at www.tceq.texas.gov/permitting/air/confidential.html.

C. Process Flow Diagram:

Provide a process flow diagram so that the permit reviewer can verify all technical information regarding the affected facility. The process flow diagram should be sufficiently descriptive, so the permit reviewer can determine the raw materials to be used in the process; all major processing steps and major equipment items; individual emission points associated with each process step; the location and identification of all emission abatement devices; and the location and identification of all waste streams (including wastewater streams that may have associated air emissions). Block flow diagrams generally are not sufficient except for very simple facilities such as boilers.

Alternate material flows and changes in routing of emissions during periods of planned MSS should be depicted as well as any alternate emission control devices that will be used during these periods.

D. Process Description:

Provide a process description to accompany the process flow diagram that discusses each step in the process and provides a step-by-step explanation of exactly how your business operates. The description should lead the permit reviewer through the process with emphasis on where the emissions are generated, why the emissions must be generated, what air pollution controls are used (including process design features that minimize emissions), and where the emissions enter the atmosphere.

The process description must also explain how the facility or facilities will be operating when the maximum possible emissions are produced. For some source types, this will probably be the highest production rate. For other source types, the maximum emission rates may occur at partial load. When applicable, discuss cycle times, reaction times, temperatures, pressures, material flow rates, and production rates. Be specific, and do not use generalities such as a small amount, sometimes, and occasionally opened. The process description must also include how the facility is operated during periods of planned MSS and what emission reduction techniques will be used to limit emissions, changes in character of emissions, and the frequency and duration of each type of planned MSS activity.

All information in the process description is an enforceable representation.

E. Maximum Emissions Data and Calculations:

Represent the maximum hourly and total annual emission rates of the project, including emission rates for planned MSS facilities and related activities. You must also provide a demonstration of expected continuous compliance with the represented emission rates.

The permit reviewer must be able to duplicate all emission calculations to verify and confirm emissions data and rates represented in the application. Supporting calculations and the technical bases for the emission rates are required. Include all emission rates calculations and any assumptions made in determining the emission rates.

List and discuss planned MSS activities separately. Provide emission rates and supporting emissions information from planned MSS activities, frequency, and duration of all planned MSS activities, and all planned MSS activity effects on emission rates. Additionally, note all emission points unique to MSS activities. Maximum hourly emission rates, in pounds per hour, from planned MSS should be based on the maximum rates expected from the MSS activities. Annual planned MSS emission rates, in tons per year, should be based on the number of expected MSS activities during any consecutive 12-month period.

Maximum hourly emission rates, in pounds per hour, should be based on the maximum (design) production capacity of the facility. Dividing the annual emissions in tons per year by the annual hours of operation in order to determine hourly emissions in pounds per hour is often unacceptable and inaccurate since this approach typically underestimates hourly emissions.

Maximum annual emission rates, in tons per year, should reflect the operation of the facility throughout any consecutive 12-month period with consideration given to future facility growth.

Include a discussion of the hours of operation and how the hours of operation relate to emission rates on an hourly and annual basis.

If the process is a non-continuous batch operation, or there are widely varying operating scenarios, clearly identify and account for the variations in emissions in the maximum hourly and annual emission rates. Supply additional information to describe the emission variations, particularly for emissions from MSS facilities and related activities.

Include emission rate information for each air contaminant during production operations and during periods of planned MSS. Contaminants must be specifically identified. For example: methanol rather than hydrocarbons or polyester/styrene resin dust and iron dust rather than dust. Provide applicable Material Safety Data Sheets (MSDS), Safety Data Sheets, Air Quality Data Sheets, or equivalent supporting documents that provide complete speciation for all mixtures that contain potential air contaminants.

If spreadsheets are used to estimate emissions, they should be formatted such that they are clear and easy to follow and include example calculations with units and the data sources for the inputs. The permit reviewer may request an electronic version of the spreadsheet to verify the emission calculations are correct.

F. Distance from Property Line and Nearest Off-Property Structure:

Instead of an area map and plot plan, the TCEQ requests distance information, including the distance from the facility's emission release points to the nearest property line and off-property structure. This information is needed as many PBRs have very specific distance limitations.

Note: In limited cases, a map or drawing of the site and surrounding land use may be requested during the technical review or at the request of the TCEQ Regional office or local air pollution control program during an investigation.

G. Project Status:

In an effort to prioritize PBR projects, please check the appropriate box based on if the project has been implemented or if waiting on a response from TCEQ before proceeding with the project.

H. Projected Start of Construction and Projected Start of Operation Dates:

Provide the projected start of construction date and projected completion date.

Note: Construction is broadly interpreted as anything other than site clearance or site preparation. Activities such as land clearing, soil load-bearing tests, leveling of the area, sewers and utility lines, road building, power line installation, fencing, and construction shack building are considered site clearance or preparation. Equipment may be received at a plant site and stored, provided no attempt is made to assemble the equipment or connect it to any electrical,

plumbing, or other utility system. All work, such as excavation, form erection, or foundations upon which facilities will rest is considered construction. Submit any questions regarding the definition of start of construction to airperm@tceq.texas.gov with copies to the appropriate TCEQ regional office and any local air pollution control program(s) having jurisdiction. Each request for clarification must be in writing with sufficient detail to identify the specific activity in question, and the agency response to this request must be in writing for the authorization to be valid. Additional information can be found at www.tceq.texas.gov/permitting/air/newsourcereview/before.html.

VI. Delinquent Fees and Penalties

We will not process your application until all delinquent fees and applicable penalties owed to the TCEQ or the Office of the Attorney General on behalf of the TCEQ are paid in accordance with the Delinquent Fee and Penalty Protocol. More information regarding delinquent fee and penalties can be found at www.tceq.texas.gov/agency/financial/fees/delin/index.html.

VII. Copies of the Registration

Submit copies of the Form PI-7, and all other required attachments, as indicated on the PI-7 form. Retain a copy of the registration for your own records. **Failure to distribute copies of the registration will delay processing**. The original of this registration form must be sent to the TCEQ in Austin and the appropriate TCEQ regional office through the TCEQ e-Services system. A hard copy must be sent to any local air pollution control program(s) with jurisdiction. A copy must also be maintained on-site. For sites that normally operate unattended, a copy must be maintained at an office within Texas that has operational control of the site.

Also, all *subsequent* correspondence should be copied to the TCEQ regional office and local air pollution control program(s), as appropriate. Do not attach a copy of Form PI-7 to subsequent correspondence unless specifically requested, as this may cause another registration file to be created. Indicate the assigned TCEQ registration number, TCEQ regulated entity number, and permit reviewer, if known, on all subsequent correspondence.

Registration for Permits by Rule (PBR)
Form PI-7
(Page 1)
Texas Commission on Environmental Quality

I. Registrant Information
A. Company or Other Legal Customer Name:
Hyponex Corporation
B. Company Official Contact Information (☒ Mr. ☐ Mrs. ☐ Ms. ☐ Other:) _____
Name: Tony Chavez
Title: Plant Manager
Mailing Address: 13321 FM 206
City: Tyler
State: TX
ZIP Code: 75709
Telephone Number: 903-730-8625
Fax Number: 903-593-5981
Email Address: tony.chavez@scotts.com
All PBR registration responses will be sent via email.
C. Technical Contact Information (☒ Mr. ☐ Mrs. ☐ Ms. ☐ Other:) _____
Name: Bryan Allen
Title: Regional EHS Manager
Company Name: The Scotts Miracle-Gro Company
Mailing Address: 20239 Deer Hollow Dr.
City: Bullard
State: TX
ZIP Code: 75757
Telephone Number: 903-651-6064
Fax Number: 903-593-5981
Email Address: bryan.allen@scotts.com

Registration for Permits by Rule (PBR)
Form PI-7
(Page 2)
Texas Commission on Environmental Quality

II. Facility and Site Information
A. Name and Type of Facility
Facility Name: Morbark Portable Tub Grinder
Type of Facility: ☐ Permanent ☐ Temporary ☒ Portable
For portable units, please provide the serial number of the equipment being authorized below.
Serial No(s): 572-1543
B. Facility Location Information
Street Address: Portable Equipment: 13321 FM 206, Tyler, TX 75709 AND 1284 SH 75N, Huntsville TX, 77320
If there is no street address, provide written driving directions to the site and provide the closest city or town, county, and ZIP code for the site (attach description if additional space is needed).
City: Tyler / Huntsville
County: Smith / Walker
ZIP Code: 75709 / 77320
C. TCEQ Core Data Form
Is the Core Data Form (TCEQ Form Number 10400) attached? ☐ YES ☒ NO
If "NO," provide customer reference number (CN) and regulated entity number (RN) below.
Customer Reference Number (CN): 600419238
Regulated Entity Number (RN): 109745489
D. TCEQ Account Identification Number (if known): N/A
E. Type of Action
☐ Initial Application ☐ Change to Registration ☒ Annual Notification per 106.261 (a)(7)(B)
For Change to Registration provide the Registration Number:
F. PBR number(s) claimed under 30 TAC Chapter 106
(List all the individual rule number(s) that are being claimed.)
106.261 (a)(7)(B)
106
106

II. Facility and Site Information *(continued)*	
G. Historical Standard Exemption or PBR	
Are you claiming a historical standard exemption or PBR?	☐ YES ☒ NO
If "YES," enter rule number(s) and associated effective date in the spaces provided below.	
Rule Number(s):	Effective Date:
Rule Number(s):	Effective Date:
Rule Number(s):	Effective Date:
H. Previous Standard Exemption or PBR Registration Number	
Is this authorization for a change to an existing facility previously authorized under a standard exemption or PBR?	☐ YES ☒ NO
If "YES," enter previous standard exemption number(s) and PBR registration number(s) and associated effective date in the spaces provided below.	
Standard Exemption and PBR Registration Number(s): Permit by Rule Registration Number: 146315L005	
Effective Date: 03/04/2024	
Standard Exemption and PBR Registration Number(s):	
Effective Date:	
I. Other Facilities at this Site Authorized by Standard Exemption, PBR, or Standard Permit	
Are there any other facilities at this site that are authorized by an Air Standard Exemption, PBR, or Standard Permit?	☒ YES ☐ NO
If "YES," enter standard exemption number(s), PBR registration number(s), and Standard Permit registration number(s), and associated effective date in the spaces provided below.	
Standard Exemption and PBR Registration Number(s): Tyler: 106752	
Effective Date: 11/22/2017, revised 02/17/2023	
Standard Exemption and PBR Registration Number(s):	
Effective Date:	
J. Other Air Preconstruction Permits	
Are there any other air preconstruction permits at this site?	☒ YES ☐ NO
If "YES," enter permit number(s) in the spaces provided below.	
Permit Number(s): Huntsville Registration No. 165140 - 06/17/2021	
Permit Number(s):	

II.	**Facility and Site Information *(continued)***
K.	Affected Air Preconstruction Permits
Does the PBR being claimed directly affect any permitted facility? ☐ YES ☒ NO	
If "YES," enter the permit number(s) in the spaces provided below.	
Permit Number(s):	
Permit Number(s):	
L.	Federal Operating Permit (FOP) Requirements (30 TAC Chapter 122 Applicability)
Is this facility located at a site that is required to obtain an FOP pursuant to 30 TAC Chapter 122?	☐ YES ☒ NO ☐ To Be Determined
If the site currently has an existing FOP, enter the permit number:	
1.	Check the requirements of 30 TAC Chapter 122 that will be triggered if this claim is accepted *(check all that apply)*.
☐ Initial Application for an FOP ☐ Significant Revision for an SOP ☐ Minor Revision for an SOP	
☐ Operational Flexibility/Off Permit Notification for an SOP ☐ Revision for a GOP	
☐ To Be Determined ☒ None	
2.	Identify the type(s) of FOP issued and/or FOP application(s) submitted/pending for the site. (*check all that apply*)
☐ SOP ☐ GOP ☐ GOP Application/Revision (submitted or under APD review)	
☒ N/A ☐ SOP Application/Revision (submitted or under APD review)	
III.	**Fee Information** *(see Section VII. for address to send fee or go to www.tceq.texas.gov/epay to pay online)*
A.	Fee Requirements
Is a fee required per 30 TAC § 106.50?	☒ YES ☐ NO
If "NO," specify the exception. There are three exceptions to paying a PBR fee. *(check all that apply)*	
1.	Registration is solely to establish a federally enforceable emission limit. ☐
2.	Registration is within six months of an initial PBR review, and is addressing deficiencies, administrative changes, or other allowed changes. ☐
3.	Registration is for a remediation project (30 TAC § 106.533). ☐

III. Fee Information *(see Section VII. for address to send fee or go to www.tceq.texas.gov/epay to pay online)*	
B. Fee Amount	
1. A $100 fee is required if *any* of the answers in III.B.1 are "YES."	
This business has less than 100 employees.	☐ YES ☒ NO
This business has less than $6 million dollars in annual gross receipts.	☐ YES ☒ NO
This registration is submitted by a governmental entity with a population of less than 10,000.	☐ YES ☒ NO
This registration is submitted by a non-profit organization.	☐ YES ☒ NO
2. A $450 fee is required for all other registrations.	
C. Payment Information	
Check/money order/transaction or voucher number: Voucher Number: XXXXXXX	
Individual or company name on check:	
Fee Amount: $ 450.00	
Was fee paid online?	☒ YES ☐ NO
IV. Selected Facility Reviews and Voluntary Registrations *Only*	
Note: *If registering any of the PBRs listed in IV.B., or if voluntarily registering any other PBR(s), complete this section, then skip to Section VI. below:*	
A. List any PBRs that are being voluntarily registered.	
106.	
106.	
B. PBR Checklists	
If you are registering any of the following PBRs, did you attach the applicable PBR checklists that shows your facility meets all general and specific requirements?	☐ YES ☐ NO
• *Animal Feeding Operations § 106.161, Livestock Auction Facilities § 106.162, Saw Mills § 106.223, Grain Handling, Storage and Drying § 106.283, Auto Body Refinishing Facilities § 106.436,* or *Air Curtain Incinerator § 106.496.* (If "NO" then you ***must*** provide ***all*** technical information outlined in Section V.)	
C. Distances to Property Line and Nearest Off-Property Structure	
Distance from this facility's emission release point to the nearest property line:	feet
Distance from this facility's emission release point to the nearest off-property structure:	feet

V.	**Technical Information Including State and Federal Regulatory Requirements** **Check the appropriate box to indicate what is included in your submittal.** ***Note:*** *Any technical or essential information needed to confirm that facilities are meeting the requirements of the PBR must be provided. Not providing key information could result in a deficiency of the project.*
A.	PBR requirements (Checklists are optional; however, your review will go faster if you provide applicable checklists.)
Did you demonstrate that the general requirements in 30 TAC § 106.4 are met?	☒ YES ☐ NO
Did you demonstrate that the individual requirements of the specific PBR are met?	☒ YES ☐ NO
B. Confidential Information Included (If confidential information is submitted with this registration, all confidential pages must be properly marked "CONFIDENTIAL.")	☐ YES ☒ NO
C. Process Flow Diagram?	☐ YES ☒ NO
D. Process Description?	☒ YES ☐ NO
E. Maximum Emissions Data and Calculations?	☒ YES ☐ NO
Note: *If the facilities listed in this registration are subject to the Mass Emissions Cap & Trade program under* ***30 TAC Chapter 101****,* ***Subchapter H, Division 3****, the owner/operator of these facilities must possess* NO_x *allowances equivalent to the actual* NO_x *emissions from these facilities.*	
F. Distance from Property Line and Nearest Off-Property Structure	
Distance from this facility's emission release point to the nearest property line: >100	feet
Distance from this facility's emission release point to the nearest off-property structure: >100	feet
G. Project Status	
Has the company implemented the project or waiting on a response from TCEQ?	☒ Implemented ☐ Waiting
H. Projected Start of Construction and Projected Start of Operation Dates:	
Projected Start of Construction (provide date):	
Project Start of Operation (provide date): 01/01/2025	
VI.	**Delinquent Fees and Penalties**
This form **will not be processed** until all delinquent fees and/or penalties owed to the TCEQ or the Office of the Attorney General on behalf of the TCEQ is paid in accordance with the Delinquent Fee and Penalty Protocol. For more information regarding Delinquent Fees and Penalties, go to the TCEQ website at www.tceq.texas.gov/agency/financial/fees/delin/index.html.	

VII. Copies of the Registration

Processing delays may occur if copies are not sent as noted. Copies must be sent as listed below:

Who	*Where*	*What*
Air Permits Initial Review Team (APIRT)	Regular, Certified, Priority Mail MC 161, P.O. Box 13087 Austin, Texas 78711-3087 Hand Delivery, Overnight Mail MC 161, 12100 Park 35 Circle, Building C, Third Floor Austin, Texas 78753	Originals of Form PI-7, Core Data Form, and all attachments. Not required if using ePermits[1]
Revenue Section, TCEQ	Regular, Certified, Priority Mail MC 214, P.O. Box 13088 Austin, Texas 78711-3088 Hand Delivery, Overnight Mail MC 214, 12100 Park 35 Circle, Building A, Third Floor Austin, Texas 78753	Original Money Order or Check, Copy of Form PI-7, and Core Data Form. Not required if fee was paid using ePay[2].
Appropriate TCEQ Regional Office	To find your Regional Office address, go to the TCEQ website at www.tceq.texas.gov//agency/directory/region or call (512) 239-1250.	Copy of Form PI-7, Core Data Form, and all attachments. Not required if using ePermits[1].
Appropriate Local Air Pollution Control Program(s)	To Find your local or Regional Air Pollution Control Programs go to the TCEQ, APD website at www.tceq.texas.gov/permitting/air/local_programs.html or call (512) 239-1250	Copy of Form PI-7, Core Data Form, and all attachments

[1] ePermits located at www3.tceq.texas.gov/steers/
[2] ePay located at www.tceq.texas.gov/epay/

Attachment to PI-7

Permit by Rule 261(a)(7)(B)

Annual Notification

LIST OF ATTACHMENTS

V.A.1. PBR 106.4 Checklist (TCEQ (10149)

The PBR checklist for rule 106.4 is attached.

Texas Commission on Environmental Quality
Permit by Rule Applicability Checklist
Title 30 Texas Administrative Code § 106.4

The following checklist was developed by the Texas Commission on Environmental Quality (TCEQ), **Air Permits Division**, to assist applicants in determining whether or not a facility meets all of the applicable requirements. Before claiming a specific Permit by Rule (PBR), a facility must first meet all of the requirements of **Title 30 Texas Administrative Code § 106.4** (30 TAC § 106.4), "Requirements for Permitting by Rule." Only then can the applicant proceed with addressing requirements of the specific Permit by Rule being claimed.

The use of this checklist is not mandatory; however, it is the responsibility of each applicant to show how a facility being claimed under a PBR meets the general requirements of 30 TAC § 106.4 and also the specific requirements of the PBR being claimed. If all PBR requirements cannot be met, a facility will not be allowed to operate under the PBR and an application for a construction permit may be required under 30 TAC § 116.110(a).

Registration of a facility under a PBR can be performed by completing **Form PI-7** (Registration for Permits by Rule) or **Form PI-7-CERT** (Certification and Registration for Permits by Rule). The appropriate checklist should accompany the registration form. Check the most appropriate answer and include any additional information in the spaces provided. If additional space is needed, please include an extra page and reference the question number. The PBR forms, tables, checklists, and guidance documents are available from the TCEQ, Air Permits Division website at: www.tceq.texas.gov/permitting/air/nav/air_pbr.html.

1. 30 TAC § 106.4(a)(1) and (4): Emission Limits	**Answer**
List emissions in tpy for **each** facility (add additional pages or table if needed):	
Are the SO_2, PM_{10}, VOC, or other air contaminant emissions claimed for **each** facility in this PBR submittal less than 25 tpy?	☒ YES ☐ NO
Are the NO_x and CO emissions claimed for each facility in this PBR submittal less than 250 tpy?	☒ YES ☐ NO
*If the answer to both is "Yes," continue to the question below. If the answer to either question is "No," a **PBR cannot be claimed**.*	
Has any facility at the property had public notice and opportunity for comment under 30 TAC Section 116 for a regular permit or permit renewal? (This does not include public notice for voluntary emission reduction permits, grandfathered existing facility permits, or federal operating permits.)	☐ YES ☒ NO
If "Yes," skip to Section 2. If "No," continue to the questions below.	
If the site has had no public notice, please answer the following:	
Are the SO_2, PM_{10}, VOC, or other emissions claimed for **all** facilities in this PBR submittal less than 25 tpy?	☒ YES ☐ NO
Are the NO_x and CO emissions claimed for all facilities in this PBR submittal less than 250 tpy?	☒ YES ☐ NO
If the answer to both questions is "Yes," continue to Section 2.	
*If the answer to either question is "No," **a PBR cannot be claimed**. A permit will be required under Chapter 116.*	

Texas Commission on Environmental Quality
Permit by Rule Applicability Checklist
Title 30 Texas Administrative Code § 106.4

2. 30 TAC § 106.4(a)(2): Nonattainment Check	Answer
Are the facilities to be claimed under this PBR located in a designated ozone nonattainment county?	☐ YES ☒ NO
If "Yes," please indicate which county by checking the appropriate box to the right.	
(Moderate) - Brazoria, Chambers, Fort Bend, Galveston, Harris, Liberty, Montgomery, and Waller counties:	☐ HGB
(Moderate) - Collin, Dallas, Denton, Ellis, Johnson, Kaufman, Parker, Rockwall, Tarrant, and Wise counties:	☐ DFW
If "Yes," to any of the above, continue to the next question. If "No," continue to Section 3.	
Does this project trigger a nonattainment review?	☐ YES ☐ NO
Is the project's potential to emit (PTE) for emissions of VOC or NO_x increasing by 100 tpy or more?	☐ YES ☐ NO
PTE is the maximum capacity of a stationary source to emit any air pollutant under its worst-case physical and operational design unless limited by a permit, rules, or made federally enforceable by a certification.	
Is the site an existing major nonattainment site and are the emissions of VOC or NO_x increasing by 40 tpy or more?	☐ YES ☐ NO
If needed, attach contemporaneous netting calculations per nonattainment guidance.	
Additional information can be found at: www.tceq.texas.gov/permitting/air/forms/newsourcereview/tables/nsr_table8.html and www.tceq.texas.gov/permitting/air/nav/air_docs_newsource.html	
*If "Yes," to any of the above, the project is a major source or a major modification and **a PBR may not be used**. A Nonattainment Permit review must be completed to authorize this project. If "No," continue to Section 3.*	
3. 30 TAC § 106.4(a)(3): Prevention of Significant Deterioration (PSD) check	
Does this project trigger a review under PSD rules?	
To determine the answer, review the information below:	
Are emissions of any regulated criteria pollutant increasing by 100 tpy of any criteria pollutant at a named source?	☐ YES ☒ NO
Are emissions of any criteria pollutant increasing by 250 tpy of any criteria pollutant at an unnamed source?	☐ YES ☒ NO
Are emissions increasing above significance levels at an existing major site?	☐ YES ☒ NO
PSD information can be found at: www.tceq.texas.gov/assets/public/permitting/air/Forms/NewSourceReview/Tables/10173tbl.pdf and www.tceq.texas.gov/permitting/air/nav/air_docs_newsource.html	
*If "Yes," to any of the above, **a PBR may not be used**. A PSD Permit review must be completed to authorize the project.*	
If "No," continue to Section 4.	

Texas Commission on Environmental Quality
Permit by Rule Applicability Checklist
Title 30 Texas Administrative Code § 106.4

4. 30 TAC § 106.4(a)(6): Federal Requirements	Answer
Will all facilities under this PBR meet applicable requirements of Title 40 Code of Federal Regulations (40 CFR) Part 60, New Source Performance Standards (NSPS)?	☐ YES ☐ NO ☒ NA
If "Yes," which Subparts are applicable? *(answer below.)*	
Will all facilities under this PBR meet applicable requirements of 40 CFR Part 63, Hazardous Air Pollutants Maximum Achievable Control Technology (MACT) standards?	☐ YES ☐ NO ☒ NA
If "Yes," which Subparts are applicable? *(answer below.)*	
Will all facilities under this PBR meet applicable requirements of 40 CFR Part 61, National Emissions Standards for Hazardous Air Pollutants (NESHAPs)?	☐ YES ☐ NO ☒ NA
If "Yes," which Subparts are applicable? *(answer below.)*	
If "Yes" to any of the above, please attach a discussion of how the facilities will meet any applicable standards.	
5. 30 TAC § 106.4(a)(7): PBR prohibition check	
Are there any air permits at the site containing conditions which prohibit or restrict the use of PBRs?	☐ YES ☒ NO
If "Yes," PBRs may not be used or their use must meet the restrictions of the permit. A new permit or permit amendment may be required.	
List permit number(s):	
6. 30 TAC § 106.4(a)(8): NO_x Cap and Trade	
Is the facility located in Harris, Brazoria, Chambers, Fort Bend, Galveston, Liberty, Montgomery, or Waller County?	☐ YES ☒ NO
If "Yes," answer the question below.	
If "No," continue to Section 7.	
Will the proposed facility or group of facilities obtain required allowances for NO_x if they are subject to 30 TAC Chapter 101, Subchapter H, Division 3 (relating to the Mass Emissions Cap and Trade Program)?	☐ YES ☐ NO

Texas Commission on Environmental Quality
Permit by Rule Applicability Checklist
Title 30 Texas Administrative Code § 106.4

7. Highly Reactive Volatile Organic Compounds (HRVOC) check		
Is the facility located in Harris County?		☐ YES ☒ NO
If "Yes," answer the next question. If "No," skip to the box below.		
Will the project be constructed after June 1, 2006?		☐ YES ☐ NO
If "Yes," answer the next question.		
If "No," skip to the box below.		
Will one or more of the following HRVOC be emitted as a part of this project?		☐ YES ☒ NO
If "Yes," complete the information below:		
Information	**lb/hr**	**tpy**
► 1,3-butadiene		
► all isomers of butene (e.g., isobutene [2-methylpropene or isobutylene])		
► alpha-butylene (ethylethylene)		
► beta-butylene (dimethylethylene, including both cis- and trans-isomers)		
► ethylene		
► propylene		
Is the facility located in Brazoria, Chambers, Fort Bend, Galveston, Liberty, Montgomery, or Waller County?		☐ YES ☒ NO
If "Yes," answer the next question. If "No," the checklist is complete.		
Will the project be constructed after June 1, 2006?		☐ YES ☐ NO
If "Yes," answer the next question. If "No," the checklist is complete.		
Will one or more of the following HRVOC be emitted as a part of this project?		☐ YES ☐ NO
If "Yes," complete the information below:		
Information	**lb//hr**	**tpy**
► ethylene		
► propylene		

Save Form Reset Form

V.A.2. PBR 261 Checklist (TCEQ 10121)

The PBR checklist for rule 106.261 is attached.

Title 30 Texas Administrative Code § 106.261
Permit By Rule (PBR) Checklist
Facilities (Emission Limitations)
Texas Commission on Environmental Quality

The following checklist is designed to help you confirm that you meet Title 30 Texas Administrative Code § 106.261 (30 TAC § 106.261) requirements. If you do not meet all the requirements, you may alter the project design or operation in such a way that all the requirements of the PBR are met or you may obtain a construction permit. The PBR forms, tables, checklists, and guidance documents are available from the Texas Commission on Environmental Quality (TCEQ) Air Permits Division website at, www.tceq.texas.gov/permitting/air/air_permits.html

For additional assistance with your application, including resources to help calculate your emissions, please visit the Small Business and Local Government Assistance (SBLGA) webpage at the following link: www.TexasEnviroHelp.org

Check the Most Appropriate Answer.

Check The Most Appropriate Answer	Answer
Is a description or checklist of how this claim meets the general requirements for the use of PBRs in 30 TAC § 106.4 attached?	☒ YES ☐ NO ☐ NA
b1 Is this claim for construction of a facility authorized in another section of this chapter or for which a standard permit is in effect?	☐ YES ☒ NO ☐ NA
If YES," this PBR cannot be used to authorize emissions from the project.	☐ YES ☐ NO ☒ NA
b2 Is this claim for any change to any facility authorized under another section of this chapter or authorized under a standard permit?	☐ YES ☒ NO ☐ NA
If "YES," this PBR cannot be used to authorize emissions from the project	
a Does this project represent a physical or operational change to an NSR permitted facility in which the result of the project is an increase in ***only*** annual emissions with no impact to the currently authorized hourly emission rate? [1]	☐ YES ☐ NO ☒ NA
a1 Are facilities or changes located at least 100 feet from any recreational area or residence or other structure not occupied or used solely by the owner or operator of the facilities or the owner of the property upon which the facilities are located?	☒ YES ☐ NO ☐ NA
a2 Are total new or increased emissions, including fugitives, less than or equal to 6.0 pounds per hour (lb/hr) and ten tons per year of the following materials [2]	☒ YES ☐ NO ☐ NA

[1] Project emission increases associated with a change to a facility that only result in an annual emissions increase can be authorized as part of the PBR claim if the following information is met: 1) the hourly emissions stay at or below current authorized emission limits; 2) there is not a change to any underlying air authorizations for the applicable units associated with BACT or health and environmental impacts; and 3) this claim is certified via PI-7-CERT. The annual emission increases associated with the PBR claim may not circumvent major new source review requirements under 30 TAC Chapter 116.

[2] Any upstream and/or downstream actual emission increases that result from a project for which this PBR is claimed need to be authorized appropriately. Any associated upstream and/or downstream emissions authorized as part of the PBR claim will need to be included as part of the total new or increased emissions, unless: 1) these emissions stay at or below current authorized emission limits; 2) there is not a change to any underlying air authorizations for the applicable units associated with BACT, health and environmental impacts, or other representations (i.e. construction plans, operating procedures, throughputs, maximum emission rates, etc.); and 3) this claim is certified via PI-7 CERT. Notwithstanding the exclusion of any upstream and/or downstream emissions under this PBR claim, the total of all emission increases, including upstream and/or downstream actual emission increases, are required to be part of the PBR registration to determine major new source review applicability under Title 30 TAC Chapter 116. The emission increases associated with the PBR claim and all upstream and/or downstream actual emission increases may not circumvent major new source review requirements under 30 TAC Chapter 116.

Title 30 Texas Administrative Code § 106.261
Permit By Rule (PBR) Checklist
Facilities (Emission Limitations)
Texas Commission on Environmental Quality

Check All That Apply			
☐ acetylene	☐ cyclopentane	☐ kaolin	☐ propane
☐ alumina	☐ emery dust	☐ limestone	☐ propyl alcohol
☐ argon	☐ ethanol	☐ magnesite	☐ propyl ether
☐ butane	☐ ethyl acetate	☐ marble	☐ propylene
☐ calcium carbonate	☐ ethyl ether	☐ methyl acetylene	☐ silicon
☐ calcium silicate	☐ ethylene	☐ methyl chloroform	☐ silicon carbide
☐ carbon monoxide	☐ glycerin mist	☐ methyl cyclohexane	☐ starch
☒ cellulose fiber	☐ gypsum	☐ neon	☐ sucrose
☐ cement dust	☐ helium	☐ nonane	☐ sulfur dioxide
☐ crude oil	☐ iron oxide dust	☐ oxides of nitrogen	☐ zinc oxide
☐ cyclohexane	☐ isohexane	☐ pentaerythritol	☐ zinc stearate
☐ cyclohexene	☐ isopropyl alcohol	☐ plaster of paris	
☐ refinery petroleum fractions (except for pyrolysis naphthas and pyrolysis gasoline) containing less than ten volume percent benzene			
☐ fluorocarbons Numbers 11, 12, 13, 14, 21, 22, 23, 113, 114, 115, and 116			

Title 30 Texas Administrative Code § 106.261
Permit By Rule (PBR) Checklist
Facilities (Emission Limitations)
Texas Commission on Environmental Quality

Check The Most Appropriate Answer	Answer
a3 Are total new or increased emissions, including fugitives, less than or equal to 1.0 lb/hr of any chemical having a limit value (L) greater than 200 milligrams per cubic meter (mg/m^3) as listed and referenced in Table 262 of 30 TAC § 106.262 of this title (relating to Facilities (Emission and Distance Limitations)? [3]	☐ YES ☐ NO ☒ NA
List chemical(s):	
L value(s):	
Are total new or increased emissions, including fugitives, less than or equal to 1.0 lb/hr of any chemical not listed or referenced in Table 262? [4]	☐ YES ☐ NO ☒ NA
List chemical(s):	
Are total new or increased emissions, including fugitives, of a chemical with a limit value of less than 200 mg/m^3*?* [5]	☐ YES ☐ NO ☒ NA
If "YES" the authorization of the chemical is not allowed under this section. We suggest you use 30 TAC § 106.262 to authorize the emissions, if applicable.	
a4 Are there any changes to or additions of any existing air pollution abatement equipment?	☐ YES ☒ NO ☐ NA
a5 Will there be any visible emissions, except uncombined water, emitted to the atmosphere from any point or fugitive source in amounts greater than 5.0% opacity in any six-minute period?	☐ YES ☒ NO ☐ NA
a6 Are emission increases five tons per year or greater?	☐ YES ☒ NO ☐ NA
If "YES," this checklist must be attached to a Form PI-7 within ten days following the installation or modification of the facilities.	
[**Note:** *The notification shall include the 106.261 and 106.262 Workbook, a description of the project, calculations, data identifying specific chemical names, limit values, and a description of pollution control equipment if any.*]	
a7 Are emission increases less than five tons per year?	☒ YES ☐ NO ☐ NA
If "YES," this checklist must be attached to a Form PI-7 and include the 106.261 and 106.262 Workbook, a description of the project, calculations, data identifying specific chemical names, limit values, and a description of pollution control equipment if any. (pick one):	
Within ten days following the installation or modification of the facilities. The notification shall include a description of the project, calculations, data identifying specific chemical names, limit values, and a description of pollution control equipment if any	☐
By March 31 of the following year summarizing all uses of this permit by rule in the previous calendar year.	☒

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[3] Same as [2]
[4] Same as [2]
[5] Same as [2]

V.A.3. PBR General Facilities 261-262 Workbook

The PBR General Facilitiies 261-262 Workbook is attached.

Permits by Rule General Facilities Workbook - Single Project

Rule Regulation Section
Air Permits Division
Texas Commission on Environmental Quality
Form 20895, Version 4.1

This workbook is a tool provided for projects being authorized under Permits by Rule (PBR) 30 TAC §§ 106.261 and/or 106.262.

Instructions:
This workbook 20895 or 20896 (in Excel format) is required for all PBR applications submitted under these rules. Please answer the questions and fill in emissions data in the input / yellow cells.

Please check our website to be sure you use the latest version of the workbook for all the features and accurate information. Also, please complete the workbook in the order of the worksheets.

Under Texas Government Code 559.003(a), individuals are entitled to receive and review any information collected by TCEQ about the individual by means of a form that that is completed and filed with TCEQ in a paper or electronic format on the TCEQ website consistent with Texas Government Code sec., 559.003(b). The individual is also entitled to have TCEQ correct information about the individual that is incorrect.

If you have questions on how to fill out this form or about the Air Permits Division, please contact us at 512-239-1250.

For rule language of §§106.261 and 106.262, please visit the Texas Secretary of State (SOS) website:
https://texreg.sos.state.tx.us/public/readtac$ext.ViewTAC?tac_view=5&ti=30&pt=1&ch=106&sch=K&rl=Y

Accessibility Disclaimer: This workbook contains intentionally blank cells.

How to Submit:

After this workbook has been completed, it should be combined with the non-confidential information of the application and submitted as an attachment through the STEERS ePermits system:

https://www3.tceq.texas.gov/steers/

Any confidential information should be submitted as an attachment separate from the non-confidential attachment in the STEERS ePermits system. THSC §382.041 requires us not to disclose any information related to manufacturing processes that is marked Confidential. Mark any information related to secret or proprietary processes or methods of manufacture Confidential if you do not want this information in the public file. All confidential information should be separated from the application and submitted as a separate file. Additional information regarding confidential information can be found at:

https://www.tceq.texas.gov/permitting/air/confidential.html

Table of Contents:

Rules *(Click to jump to specific rule)* :

General Information

This sheet provides general rule information for both General Facility PBRs.

Instructions:
Please fill out all input / yellow cells unless marked optional. Attach the federal applicability review to the application for each project.
An optional supplemental information field has been provided at the end of this worksheet. This field should be used for demonstration of rule or policy compliance.

I. Project Information

Requested Information	Response
Company Name	Hyponex Corporation
Site Description	Morbark tub grinder is portable equipment, operating at RN106868953, Scotts Hyponex Tyler, and RN101064079, Scotts Hyponex Huntsville during 2024.
General Project Description	Morbark Portable Tub Grinder, SN 572-1543
I acknowledge that I am submitting an authorized TCEQ workbook and any necessary attachments. Except for inputting the requested data and adjusting row height, I have not changed the TCEQ application workbook in any way, including but not limited to changing formulas, formatting, content, or protections.	I agree
Please indicate which rule, or both, are applicable to this project:	§106.261
Does this project authorize a new facility, modify a New Source Review (NSR) Case-by-Case existing permitted facility, or both?	New Facility
Is this site only authorized under Permits by Rule?	Yes

II. General Rule Requirements for §106.261 and/or §106.262

Requested Information	Response
Has a §106.4 checklist or compliance demonstration been included in the documentation submitted to TCEQ?	Yes
Is this registration for construction of a facility authorized in another section of this chapter or for which a standard permit is in effect?	No
Is this registration for any change to any facility authorized under another section of this chapter or authorized under a standard permit?	No
Are facilities or changes located at least 100 feet from any recreational area or residence or other structure not occupied or used solely by the owner or operator of the facilities or the owner of the property upon which the facilities are located?	Yes
Are there any changes to or additions of any existing air pollution abatement equipment?	No
Will there be any visible emissions, except uncombined water, emitted to the atmosphere from any point or fugitive source in amounts greater than 5.0% opacity in any six-minute period?	No
Please include the following information for any pollution control equipment related to this registration: how the equipment operates, and the control efficiency achieved.	None

III. Associated Emission Increases

Any upstream and/or downstream actual emission increases that result from a project for which this PBR is claimed need to be authorized appropriately. Any associated upstream and/or downstream emissions authorized as part of the PBR claim will need to be included as part of the total new or increased emissions, unless: 1) these emissions stay below current authorized emission thresholds; 2) there is not a change to any underlying air authorizations for the applicable units associated with BACT, health and environmental impacts, or other representations (i.e. construction plans, operating procedures, throughputs, maximum emission rates, etc.); and 3) this claim is certified via PI-7 CERT or APD-CERT. Notwithstanding the exclusion of any upstream and/or downstream emissions under this PBR claim, the total of all emission increases, including upstream and/or downstream actual emission increases, are required to be part of the PBR registration to determine major new source review applicability under Title 30 TAC Chapter 116. The emission increases associated with the PBR claim and all upstream and/or downstream actual emission increases may not circumvent major new source review requirements under 30 TAC Chapter 116.

Requested Information	Response
Is this project related to physical or operational changes to facilities authorized under an NSR Case-by-Case permit?	No

IV. Hours of Operation

Project emission increases associated with a change to a facility that only result in an annual emissions increase can be authorized as part of the PBR claim if the following information is met: 1) the hourly emissions stay at or below current authorized emission thresholds; 2) there is not a change to any underlying air authorizations for the applicable units associated with BACT or health and environmental impacts; and 3) this claim is certified via PI-7- CERT. The annual emission increases associated with the PBR claim may not circumvent major new source review requirements under 30 TAC Chapter 116.

Requested Information	Response
Does this project include only annual increases for permitted facilities?	No

V. Federal Applicability

Complete separate federal permitting application materials to determine applicability of Nonattainment (NA) and Prevention of Significant Deterioration (PSD) applicability, including netting if applicable. Include this analysis in your permit application.

Requested Information	Response
Please select the county that this project is located in.	Smith
County attainment status as of November 4, 2022:	unclassifiable/attainment

If applicable, is this facility located within the portion of the county that is in nonattainment?		

PSD Applicability Summary

Requested Information	Response
Is this a named source?	No
Is netting required for the PSD Analysis for this project?	No

Pollutant	Project Increase (TPY)	Threshold (TPY)	PSD Review Required?
CO			
NO_X			
PM	2.35	25	No
PM_{10}	1.31	15	No
$PM_{2.5}$	1.31	10	No
SO_2			
Ozone (as VOC)			
Ozone (as NO_X)			
Pb			
H_2S			
TRS			
Reduced sulfur compounds (including H_2S)			
H_2SO_4			
Fluoride (excluding HF)			
CO_2e			
Determination:			

Determination:			

Supplemental Information (Optional)

This annual notification is submitted to authorize 2023 emissions from the Morbark portable tub grinder and associated material handling at two of Hyponex Corporation's facilities: Scotts Hyponex Tyler (RN106868953) and also Hyponex Huntsville (RN101064079, Walker County, unclassifiable/attainment) using Permit-by-Rule 261(a)(7)(B). A hard copy of this notification was originally submitted to TCEQ by mail on March 21, 2023.

Click here to go to the §106.261 Checklist sheet.

30 TAC §106.261 Checklist

This sheet provides compliance demonstration and emission thresholds for 30 TAC §106.261.

Instructions:
Please fill out all input / yellow cells unless marked optional. Also, please note that emissions must be fully speciated and cannot have general categories listed (e.g

I. General Information

Are emission increases being authorized under §106.261 five tons per year or greater?	No
The company may submit a notification by March 31 of the following year summarizing all uses of this permit by rule in the previous calendar year.	
Is this project an annual notification?	Yes

II. §106.261(a)(2)

Are there new or increased emissions listed under §106.261(a)(2), including fugitives, less than or equal to 6.0 pounds per hour (lb/hr) and ten tons per year?

Please select chemical and enter emission rates:

Chemical	Criteria Pollutant Designation	CAS No. (optional input)	Emission Threshold (lb/hr)	Emission Threshold (tpy)	Hourly Emissions (lb/hr)	Annual Emissions (tpy)	Meets Threshold?
Cellulose Fiber	PM	TSP	6.00	10.00	1.77	2.35	Yes
Cellulose Fiber	PM	10	6.00	10.00	0.99	1.31	Yes
Cellulose Fiber	PM	2.5	6.00	10.00	0.99	1.31	Yes
			6.00	10.00			
			6.00	10.00			
			6.00	10.00			
			6.00	10.00			
			6.00	10.00			
			6.00	10.00			
			6.00	10.00			
			6.00	10.00			
			6.00	10.00			
			6.00	10.00			
			6.00	10.00			
			6.00	10.00			
			6.00	10.00			
			6.00	10.00			
			6.00	10.00			
			6.00	10.00			
			6.00	10.00			
			6.00	10.00			

III. §106.261(a)(3)

Are there new or increased emissions, including fugitives, less than or equal to 1.0 lb/hr of any chemical having a limit value (L) greater than 200 milligrams per cubic meter (mg/m^3) as listed and referenced in Table 262 of 30 TAC § 106.262 relating to Facilities (Emission and Distance Limitations)?

Are there new or increased emissions, including fugitives, less than or equal to 1.0 lb/hr of any chemical not listed or referenced in Table 262?

Please enter the chemical name, L value (for chemicals listed in table 262), and emission rates:
If there is no L value available for the chemical, then leave the L value blank.

Chemical	Criteria Pollutant Designation	L Value (mg/m^3)	CAS No. (optional input)	Emission Threshold (lb/hr)	Emission Threshold (tpy)	Hourly Emissions (lb/hr)	Annual Emissions (tpy)

Click here to go to the §106.262 Checklist sheet.

Click here to go to the Rule Summary sheet.

Rule Summary

This sheet provides the emissions summary from chemicals authorized under §106.261 and/or §106.262.

Instructions:
If the company is representing a different method to demonstrate compliance, please include a note next to the applicable chemical and attach additional sheets to the application.

§106.261(a)(2)

Chemical	Actual lb/hr	Actual tpy	Meets Threshold?	Notes
Cellulose Fiber	1.77	2.35	Yes	PM/TSP
Cellulose Fiber	0.99	1.31	Yes	PM10
Cellulose Fiber	0.99	1.31	Yes	PM2.5

§106.262(a)(2) Table 262

Chemical	Actual lb/hr	Actual tpy	Meets Threshold?	Notes

§106.261(a)(3)

Chemical	Actual lb/hr	Actual tpy	Meets Threshold?	Notes

§106.262(a)(2) 1997 ACGIH Guide

Chemical	Actual lb/hr	Actual tpy	Meets Threshold?	Notes

Emission Point Summary Table

The emission point summary table provided here is optional.

Instructions:
Please fill out the Emission Point Summary Table for the project emissions, including all emissions and rules being registered. Additional rows can be added if needed.

"Other" Criteria Pollutant (Optional)	

EPN / Source Name	Rule(s)	VOC (lb/hr)	VOC (tpy)	NO_x (lb/hr)	NO_x (tpy)	CO (lb/hr)	CO (tpy)	SO_2 (lb/hr)	SO_2 (tpy)	PM (lb/hr)	PM (tpy)	PM_{10} (lb/hr)	PM_{10} (tpy)	$PM_{2.5}$ (lb/hr)	$PM_{2.5}$ (tpy)	Other (lb/hr)	Other (tpy)
Morbark Tub Grinder	§106.261									1.77	2.35	0.99	1.31	0.99	1.31		
Total Emissions (tpy)			0.00		0.00		0.00		0.00		2.35		1.31		1.31		0.00

Maximum Operating Schedule	Hours/Day	12	Days/Week	5	Weeks/Year	52	Hours/Year	1800
Notes	Portable tub grinder operates less than 12 consecutive months at either Tyler or Huntsville sites.							

List-261 chemicals

This reference sheet provides the list of chemicals detailed in §106.261(a)(2).

Instructions:
Search or use the filter to review applicable chemicals.

Chemical
Acetylene
Argon
Butane
Crude Oil
Refinery Petroleum Fractions (except for pyrolysis naphthas and pyrolysis gasoline) containing less than ten volume percent benzene
Carbon Monoxide
Cyclohexane
Cyclohexene
Cyclopentane
Ethyl Acetate
Ethanol
Ethyl Ether
Ethylene
Fluorocarbons Numbers 11, 12, 13, 14, 21, 22, 23, 113, 114, 115, and 116
Helium
Isohexane
Isopropyl Alcohol
Methyl Acetylene
Methyl Chloroform
Methyl Cyclohexane
Neon
Nonane
Oxides of Nitrogen
Propane
Propyl Alcohol
Propylene
Propyl Ether
Sulfur Dioxide
Alumina
Calcium Carbonate
Calcium Silicate
Cellulose Fiber
Cement Dust
Emery Dust
Glycerin Mist
Gypsum
Iron Oxide Dust
Kaolin
Limestone
Magnesite

Marble
Pentaerythritol
Plaster of Paris
Silicon
Silicon Carbide
Starch
Sucrose
Zinc Stearate
Zinc Oxide

Click here to go to List of 106.262 Chemical sheet

List-262 chemicals

This reference sheet provides the list of chemicals detailed in §106.262(a)(2).

Instructions:
Search or use the filter to review applicable chemicals.

Chemical	L mg/m^3
Acetone	590
Acetaldehyde	9
Acetone Cyanohydrin	4
Acetonitrile	34
Acetylene	2662
N-Amyl Acetate	2.7
Sec-Amyl Acetate	1.1
Benzene	3
Beryllium and Compounds	0.0005
Boron Trifluoride, as HF	0.5
Butyl Alcohol, -	76
Butyl Acrylate	19
Butyl Chromate	0.01
Butyl Glycidyl Ether	30
Butyl Mercaptan	0.3
Butyraldehyde	1.4
Butyric Acid	1.8
Butyronitrile	22
Carbon Tetrachloride	12
Chloroform	10
Chlorophenol	0.2
Chloroprene	3.6
Chromic Acid	0.01
Chromium Metal, Chromium II and III Compounds	0.1
Chromium VI Compounds	0.01
Coal Tar Pitch Volatiles	0.1
Creosote	0.1
Cresol	0.5
Cumene	50
Dicyclopentadiene	3.1
Diethylaminoethanol	5.5
Diisobutyl Ketone	63.9
Dimethyl Aniline	6.4
Dioxane	3.6
Dipropylamine	8.4
Ethyl Acrylate	0.5
Ethylene Dibromide	0.38
Ethylene Glycol	26
Ethylene Glycol Dinitrate	0.1
Ethylidene-2-norbornene, 5-	7
Ethyl Mercaptan	0.08

Ethyl Sulfide	1.6
Glycolonitrile	5
Halothane	16
Heptane	350
Hexanediamine, 1,6-	0.32
Hydrogen Chloride	1
Hydrogen Fluoride	0.5
Hydrogen Sulfide	1.1
Isoamyl Acetate	133
Isoamyl Alcohol	15
Isobutyronitrile	22
Kepone	0.001
Kerosene	100
Malononitrile	8
Mesityl Oxide	40
Methyl Acrylate	5.8
Methyl Amyl Ketone	9.4
Methyl-t-butyl ether	45
Methyl Butyl Ketone	4
Methyl Disulfide	2.2
Methylenebis (2-chloroaniline) (MOCA)	0.003
Methylene Chloride	26
Methyl Isoamyl Ketone	5.6
Methyl Mercaptan	0.2
Methyl Methacrylate	34
Methyl Propyl Ketone	530
Methyl Sulfide	0.3
Mineral Spirits	350
Naphtha	350
Nickel, Inorganic Compounds	0.015
Nitroglycerine	0.1
Nitropropane	5
Octane	350
Parathion	0.05
Pentane	350
Perchloroethylene	33.5
Petroleum Ether	350
Phenyl Mercaptan	0.4
Propionitrile	14
Propyl Acetate	62.6
Propylene Oxide	20
Propyl Mercaptan	0.23
Silica-amorphous- precipitated, silica gel	4
Silicon Carbide	4
Stoddard Solvent	350
Styrene	21
Succinonitrile	20
Tolidine	0.02
Trichloroethylene	135

Trimethylamine	0.1
Valeric Acid	0.34
Vinyl Acetate	15
Vinyl Chloride	2

Click here to go to List of 1997 ACGIH Chemical sheet

List-1997 ACGIH

This reference sheet provides the list of chemicals detailed in §106.262(a)(2).

Instructions:

Search or use the filter to review applicable chemicals.

Substance	CAS No.
Acetaldehyde	75-07-0
Acetic acid	64-19-7
Acetic anhydride	108-24-7
Acetophenone	98-86-2
Acetylene dichloride	540-59-0
Acetylene tetrabromide	79-27-6
Acetylsalicylic acid (Aspirin)	50-78-2
Acrolein	107-02-8
Acrylamide	79-06-1
Acrylic acid	79-10-7
Acrylonitrile	107-13-1
Adipic acid	124-04-9
Adiponitrile	111-69-3
Aldrin	309-00-2
Allyl alcohol	107-18-6
Allyl chloride	107-05-1
Allyl glycidyl ether	106-92-3
Allyl propyl disulfide	2179-59-1
Aluminum Metal Dust	7429-90-5
Aluminum Pyro powders, as Al	7429-90-5
Aluminum Welding fumes, as Al	7429-90-5
Aluminum Soluble salts, as Al	7429-90-5
Aluminum Alkyls oxide	7429-90-5
Aluminium oxide	1344-28-1
2-Aminoethanol	
2-aminopyridine	504-29-0
3-Amino-1,2,4-triazole	61-82-5
Amitrole	61-82-5
Ammonia	7664-41-7
Ammonium chloride fume	12125-02-9
Ammonium perfluorooctanoate	3825-26-1
Ammonium sulfamate	7773-06-0
Aniline and homologues	62-53-3
o-Anisidine	90-04-0
p-Anisidine	104-94-9
Antimony	7440-36-0
ANTU	86-88-4
Arsenic, elemental and inorganic compounds (except Arsine)	7440-38-2
Arsine	7784-42-1

Asphalt (petroleum) fumes	8052-42-4
Atrazine	1912-24-9
Azinphos-methyl	86-50-0
Barium and soluble compounds, as Ba	7440-39-3
Barium sulfate	7727-43-7
Benomyl	17804-35-2
p-Benzoquinone	106-51-4
Benzotrichloride	98-07-7
Benzoyl chloride	98-88-4
Benzoyl peroxide	94-36-0
Benzyl acetate	140-11-4
Benzyl chloride	100-44-7
Biphenyl	92-52-4
Bismuth telluride, Undoped	1304-82-1
Bismuth telluride, Se-doped	
Borates, tetra, sodium salts - Anhydrous	1303-96-4
Borates, tetra, sodium salts – Decahydrate	1303-96-4
Borates, tetra, sodium salts - Pentahydrate	1303-96-4
Boron oxide	1303-86-2
Boron tribromide	10294-33-4
Bromacil	314-40-9
Bromine	7728-95-6
Bromine pentafluoride	7789-30-2
Bromochloromethane	74-97-5
Bromoform	75-25-2
1,3-Butadiene	106-99-0
Butane	106-97-8
Butanethiol	109-79-5
sec-Butanol	78-82-2
tert-Butanol	75-65-0
2-Butanone	78-93-3
2-Butoxyethanol (EGBE)	111-76-2
n-Butyl acetate	123-86-4
sec-Butyl acetate	105-46-4
tert-Butyl acetate	540-88-5
n-Butylamine	109-73-9
n-Butyl lactate	138-22-7
o-sec-Butylphenol	89-72-5
p-tert-Butyl toluene	98-51-1
Cadmium (elemental and compounds) - Inhalable	7440-43-9
Cadmium (elemental and compounds) - Respirable	
Calcium carbonate	1317-65-3
Calcium chromate	3765-19-0
Calcium cyanamide	156-62-7
Calcium hydroxide	1305-62-0
Calcium oxide	1305-78-8
Calcium silicate	1344-95-2
Calcium sulfate	7778-18-9
Camphor, synthetic	76-22-2

Caprolactam, dust	105-60-2
Caprolactam, vapor	105-60-2
Captafol	2425-06-1
Captan	133-06-2
Carbaryl	63-25-2
Carbofuran	1563-66-2
Carbon black	1333-86-4
Carbon disulfide	75-15-0
Carbon monoxide	630-08-0
Carbon tetrabromide	558-13-4
Carbonyl chloride	75-44-5
Carbonyl fluoride	353-50-4
Catechol	120-80-9
Cellulose	9004-34-6
Cesium hydroxide	21351-79-1
Chlordane	57-74-9
Chlorinated camphene (Toxaphene)	8001-35-2
Chlorinated diphenyl oxide	31242-93-0
Chlorine	7782-50-5
Chlorine dioxide	10049-04-4
Chlorine trifluoride	7790-91-2
Chloroacetaldehyde	107-20-0
Chloroacetone	78-95-5
a-Chloroacetophenone	532-27-4
Chloroacetyl chloride	79-04-9
Chlorobenzene	108-90-7
o-Chlorobenzylidene malononitrile	2698-41-1
Chlorobromomethane	74-97-5
2-Chloro-1,3-butadiene	126-99-8
Chlorodiphenyl (42% chlorine)	53469-21-9
Chlorodiphenyl (54% chlorine)	11097-69-1
1-Chloro-2,3-epoxy propane	
2-Chloroethanol	107-07-3
Chloroethylene	75-01-4
bis(Chloromethyl) ether	542-88-1
1-Chloro-1-nitropropane	600-25-9
Chloropentafluoroethane	76-15-3
Chloropicrin	76-06-2
2-Chloropropionic acid	598-78-7
o-Chlorostyrene	2039-87-4
o-Chlorotoluene	95-49-8
2-Chloro-6-(trichloromethyl) pyridine	1929-82-4
Chlorpyrifos	2921-88-2
Chromite ore processing (Chromate)	
Chromium, metal and inorganic compounds, as Cr	7440-47-3
Chromyl chloride	14977-61-8
Chrysene	218-01-9
Clopidol	2971-90-6
Coal dust	

Cobalt, elemental and inorganic compounds, as Co	7440-48-4
Cobalt carbonyl, as Co	10210-68-1
Cobalt hydrocarbonyl, as Co	16842-03-8
Copper Fume	7440-50-8
Copper Dusts & mists, as Cu	7440-50-8
Cotton Dust, raw	
Crotonaldehyde	4170-30-3
Crufomate	299-86-5
Cyanamide	420-04-2
Cyanogen	460-19-5
Cyanogen chloride	506-77-4
Cyclohexane	110-82-7
Cyclohexanol	108-93-0
Cyclohexanone	108-94-1
Cyclohexene	110-83-8
Cyclohexylamine	108-91-8
Cyclonite	121-82-4
Cyclopentadiene	542-92-7
Cyclopentane	287-92-3
Cyhexatin	13121-70-5
2,4-D	94-75-7
Dichlorodiphenyltrichloroethane	50-29-3
Decaborane	17702-41-9
Demeton	8065-48-3
Diacetone alcohol	123-42-2
1,2-Diaminoethane	107-15-3
Diatomaceous earth - Inhalable	
Diatomaceous earth - Respirable	
Diazinon	333-41-5
Diazomethane	334-88-3
Diborane	19287-45-7
2-N-Dibutylaminoethanol	102-81-8
Dibutyl phenyl phosphate	2528-36-1
Dibutyl phosphate	107-66-4
Dibutyl phthalate	84-74-2
Dichloroacetylene	7572-29-4
o-Dichlorobenzene	95-50-1
p-Dichlorobenzene	106-46-7
1,4-Dichloro-2-butene	764-41-0
Dichlorodifluoromethane	75-71-8
1,3-Dichloro-5,5-dimethyl hydantoin	118-52-5
1,1-Dichloroethane	75-34-3
1,2-Dichloroethane	
1,1-Dichloroethylene	
1,2-Dichloroethylene	540-59-0
Dichloroethyl ether	111-44-4
Dichlorofluoromethane	75-43-4
Dichloromethane	
1,1-Dichloro-1-nitroethane	594-72-9

1,2-Dichloropropane	
1,3-Dichloropropene	542-75-6
2,2-Dichloropropionic acid	75-99-0
Dichlorotetrafluoroethane	76-14-2
Dichlorvos	62-73-7
Dicrotophos	141-66-2
Dicyclopentadiene	77-73-6
Dicyclopentadienyl Iron	102-54-5
Dieldrin	60-57-1
Diethanolamine	111-42-2
Diethylamine	109-89-7
Diethylene triamine	111-40-0
Diethyl ether	
Di(2-ethylhexyl)phthalate	
Diethyl ketone	96-22-0
Diethyl phthalate	84-66-2
Difluorodibromomethane	75-61-6
Diglycidyl ether (DGE)	2238-07-51
Dihydroxybenzene	
Diisopropylamine	108-18-9
Dimethoxymethane	
N,N·Dimethylacetamide	127-19-5
Dimethylamine	124-40-3
Dimethylaminobenzene	
Dimethylbenzene	
Dimethylethoxysilane	14857-34-2
Dimethyl-1,2-dibromo-2,2-dichloroethyl phosphate	
Dimethylformamide	68-12-2
1,1-Dimethylhydrazine	57-14-7
Dimethylphthalate	131-11-3
Dimethyl sulfate	77-78-1
Dinitolmide	148-01-6
Dinitrobenzene (all isomers)	528-29-0;99-65-0;100-2
Dinitro-o-cresol	534-52-1
3,5-Dinitro-o-toluamide	
Dinitrotoluene	25321-14-6
Dioxathion	78-34-2
Diphenyl	
Diphenylamine	122-39-4
Diphenylmethane diisocyanate	
Dipropylene glycol methyl ether	34590-94-8
Dipropyl ketone	123-19-3
Diquat - Inhalable	2764-72-9
Diquat - Respirable	2764-72-9
Di-sec-octyl phthalate	117-81-7
Disulfiram	97-77-8
Disulfoton	298-04-4
2,6-Di-tert-butyl-p-cresol	128-37-0
Diuron	330-54-1

Divinyl benzene	1321-74-0
Emery	1302-74-5
Endosulfan	115-29-7
Endrin	72-20-8
Enflurane	13838-16-9
Enzymes	
Epichlorohydrln	106-89-8
EPN	2104-64-5
2,3-Epoxy-1-propanol	
Ethanol	64-17-5
Ethanolamine	141-43-5
Ethion	563-12-2
2-Ethoxyethanol (EGEE)	110-80-5
2-Ethoxyethyl acetate (EGEEA)	111-15-9
Ethyl acetate	141-78-6
Ethyl alcohol	
Ethylamine	75-04-7
Ethyl amyl ketone	541-85-5
Ethyl benzene	100-41-4
Ethyl bromide	74-96-4
Ethyl butyl ketone	106-35-4
Ethyl chloride	75-00-3
Ethylene chlorohydrin	107-07-3
Ethylenediamine	107-15-3
Ethylene dichloride	107-06-2
Ethylene glycol methyl ether acetate	
Ethylene oxide	75-21-8
Ethylenimine	151-56-4
Ethyl Ether	60-29-7
Ethyl formate	109-94-4
Ethylidene chloride	
N-Ethylmorpholine	100-74-3
Ethyl silicate	78-10-4
Fenamiphos	22224-92-6
Fensulfothion	115-90-2
Fenthion	55-38-9
Ferbam	14484-64-1
Ferrovanadium dust	12604-58-9
Fluorides	
Flourine	7782-41-4
Fluorotrichloromethane	
Fonofos	944-22-9
Formaldehyde	50-00-0
Formamide	75-12-7
Formic acid	64-18-6
Furfural	98-01-1
Furfuryl alcohol	98-00-0
Gasoline	8006-61-9
Germanium tetrahydride	7782-65-2

Glass - continuous filament fibers, per cc	
Glutaraldehyde - activated and inactivated	111-30-8
Glycerin mist	56-81-5
Glycidol	556-52-5
Glycol monoethyl ether	
Grain dust (oat, wheat, barley)	
Graphite (all forms except graphite fibers)	7782-42-5
Gypsum	
Hafnium	7440-58-6
Heptachlor	76-44-8
Heptachlor epoxide	1024-57-3
3-Heptanone	
Hexachlorobenzene	118-74-1
Hexachlorobutadiene	87-68-3
Hexachlorocyclopentadiene	77-47-4
Hexachloroethane	67-72-1
Hexachloronaphthalene	1335-87-1
Hexafluoroacetone	684-16-2
Hexamethylene diisocyanate	822-06-0
Hexane (n-Hexane)	110-54-3
Hexane - Other isomers	110-54-3
1,6-Hexanediamine	124-09-4
Hexone, see Methyl isobutyl ketone	
sec-Hexyl acetate	108-84-9
Hexylene glycol	107-41-5
Hydrazine	302-01-2
Hydrogenated terphenyls	61788-32-7
Hydrogen bromide	10035-10-6
Hydrogen cyanide	74-90-8
Calcium cyanide	592-01-8
Potassium cyanide	151-50-8
Sodium cyanide	143-33-9
Hydrogen peroxide	7722-84-1
Hydrogen selenide	7783-07-5
Hydroquinone	123-31-9
4-Hydroxy-4-methyl-2-pentanone	
2-Hydroxypropyl acrylate	999-61-1
Indene	95-13-6
Indium & compounds	7440-74-6
Iodine	7553-56-2
Iodoform	75-47-8
Iron oxide dust & fume (Fe2O3)	1309-37-1
Iron pentacarbonyl	13463-40-6
Iron salts - soluble	
Isobutyl acetate	110-19-0
Isobutyl alcohol	78-83-1
Isooctyl alcohol	26952-21-6
Isophorone	78-59-1
Isophorone diisocyanate	4098-71-9

Isopropoxyethanol	109-59-1
Isopropyl acetate	108-21-4
Isopropylamine	75-31-0
N-Isopropylaniline	768-52-5
Isopropyl ether	108-20-3
Isopropyl glycidyl ether (IGE)	4016-14-2
Kaolin	1332-58-7
Ketene	463-51-4
Lead - elemental and inorganic compounds	7439-92-1
Lead arsenate	7784-40-9
Lead chromate, as Pb	7758-97-6
Lead chromate, as Cr	7758-97-6
Limestone	
Lindane	58-89-9
Lithium hydride	7580-67-8
L.P.G. (Liquified petroleum gas)	68476-85-7
Magnesite	546-93-0
Magnesium oxide fume	1309-48-4
Malathion	121-75-5
Maleic anhydride	108-31-6
Manganese - elemental and inorganic compounds	7439-96-5
Manganese cyclopentadienyl tricarbonyl	12079-65-1
Marble	
Mercury - Alkyl compounds	7439-97-6
Mercury - Aryl compounds	7439-97-6
Mercury - Inorganic forms including metallic mercury	7439-97-6
Methacrylic acid	79-41-4
Methanol	67-56-1
Methomyl	16752-77-5
Methoxychlor	72-43-5
2-Methoxyethanol (EGME)	109-86-4
2-Methoxyethyl acetate (EGMEA)	110-49-6
4-Methoxyphenol	150-76-5
Methyl acetate	79-20-9
Methyl acetylene	74-99-7
Methyl acetylene-propadiene mixture (MAPP)	
Methylacrylonitrile	126-98-7
Methylal	109-87-5
Methyl alcohol	
Methylamine	74-89-5
N-Methyl aniline	100-61-8
Methyl bromide	74-83-9
Methyl chloride	74-87-3
Methyl 2-cyanoacrylate	137-05-3
Methylcyclohexane	108-87-2
Methylcyclohexanol	25639-42-3
o-Methylcyclohexanone	583-60-8
2-Methylcyclopentadienyl manganese tricarbonyl	12108-13-3
Methyl demeton	8022-00-2

Methylene bisphenyl isocyanate	101-68-8
Methylene bis(4-cyclohexylisocyanate)	5124-30-1
4,4'-Methlylene dianiline	101-77-9
Methyl ethyl ketone (MEK)	78-93-3
Methyl ethyl ketone peroxide	1338-23-4
Methyl formate	107-31-3
5-Methyl-3-heptanone	
Methyl hydrazine	60-34-4
Methyl iodide	74-88-4
Methyl Isobutyl carbinol	108-11-2
Methyl isobutyl ketone	108-10-1
Methyl isocyanate	624-83-9
Methyl isopropyl ketone	563-80-4
Methyl parathion	298-00-0
Methyl silicate	681-84-5
α-Methyl styrene	98-83-9
Metribuzin	21087-64-9
Mevinphos	7786-34-7
Mica	12001-26-2
Molybdenum - Soluble compounds	7439-98-7
Molybdenum - Insoluble compounds	7439-98-7
Monochlorobenzene	
Monocrotophos	6923-22-4
Morpholine	110-91-8
Naled	300-76-5
Naphthalene	91-20-3
Nickel, Metal	7440-02-0
Nickel, Insoluble compounds as Ni	7440-02-0
Nickel, Soluble compounds as Ni	7440-02-0
Nickel carbonyl	13463-39-3
Nickel sulfide roasting, fume and dust	7440-02-0
Nicotine	54-11-5
Nitrapyrin	1929-82-4
Nitric acid	7697-37-2
Nitric oxide	10102-43-9
p-Nitroaniline	100-01-6
Nitrobenzene	98-95-3
p-Nitrochlorobenzene	100-00-5
Nitroethane	79-24-3
Nitrogen dioxide	10102-44-0
Nitrogen trifluoride	7783-54-2
Nitromethane	75-52-5
Nitrotoluene	88-72-2; 99-08-1; 99-99-0
Nitrotrichloromethane	
Nitrous oxide	10024-97-2
Nonane	111-84-2
Octachloronaphthalene	2234-13-1
Oil mist, mineral	

Osmium tetroxide	20816-12-0
Oxalic acid	144-62-7
Oxygen difluoride	7783-41-7
Ozone - Heavy work	10028-15-6
Ozone - Moderate work	10028-15-6
Ozone - Light work	10028-15-6
Paraffin wax fume	8002-74-2
Paraquat - Total particulate	4685-14-7
Paraquat - Respirable fraction	4685-14-7
Particulates Not Otherwise Classified - Inhalable	
Particulates Not Otherwise Classified - Respirable	
Pentaborane	19624-22-7
Pentachloronaphthalene	1321-64-8
Pentachloronitrobenzene	82-68-8
Pentachlorphenol	87-86-5
Pentaerythritol	115-77-5
Perchloromethyl mercaptan	594-42-3
Perchloryl fluoride	7616-94-6
Perfluoroisobutylene	382-21-8
Perlite	93763-70-3
Persulfates - Ammonium	7727-54-0
Persulfates - Potassium	7727-21-1
Persulfates - Sodium	7775-27-1
Phenol	100-95-2
Phenothiazine	92-84-2
o-Phenylenediamine	95-54-5
m-Phenylenediamlne	108-45-2
p-Phenylenediamine	106-50-3
Phenyl ether, vapor	101-84-8
Phenyl glycidyl ether (PGE)	122-60-1
Phenylhydrazine	100-63-0
Phenylphosphine	638-21-1
Phorate	298-02-2
Phosdrin	
Phosgene	75-44-5
Phosphine	7803-51-2
Phosphoric acid	7664-38-2
Phosphorus (yellow)	7723-14-0
Phosphorus oxychloride	10025-87-3
Phosphorus pentachloride	10026-13-8
Phosphorus pentasulfide	1314-80-3
Phosphorus trichloride	7719-12-2
Phthalic anhydride	85-44-9
m-Phthalodinitrile	626-17-5
Picloram	1918-02-1
Picric acid	88-89-1
Pindone	83-26-1
Piperazine dihydrochloride	142-64-3
2-Pivalyl-1,3-indandione	

Plaster of Paris	
Platinum - Metal	7440-06-4
Platinum - Soluble Salts	7440-06-4
Polychlorobiphenyl (42% chlorine)	
Polychlorobiphenyl (54% chlorine)	
Portland cement	65997-15-1
Potassium hydroxide	13105-8-3
Propargyl alcohol	107-19-7
β-Propiolactone	57-57-8
Propionic acid	79-09-4
Propoxur	114-26-1
n-Propyl alcohol	71-23-8
Propylene dichloride	78-87-5
Propylene glycol dinitrate	6423-43-4
Propylene glycol monomethyl ether	107-98-2
Propylene imine	75-55-8
n-Propyl nitrate	627-13-4
Propyne	
Pyrethrum	8003-34-7
Pyridine	110-86-1
Pyrocatechol	
Quartz	
Quinone	106-51-4
RDX	
Resorcinol	108-46-3
Rhodium metal	7440-16-6
Rhodium - Insoluble compounds	
Rhodium - Soluble compounds	
Ronnel	299-84-3
Rotenone (commercial)	83-79-4
Rouge	
Selenium and compounds	7782-49-2
Selenium hexafluoride	7783-79-1
Sesone	136-78-7
Silane	
Silica (Amorphous) Diatomaceous earth (uncalcined) - Inhalable	
Silica (Amorphous) Diatomaceous earth (uncalcined) - Respirable	
Silica, fume	69012-64-2
Silica, fused	60676-86-0
Silica (Crystalline) - Cristobalite	14464-46-1
Silica (Crystalline) - Quartz	14808-60-7
Silica (Crystalline) - Tridymite	15468-32-3
Silica (Crystalline) - Tripoli	1317-95-9
Silicon	7440-21-3
Silicon tetrahydride	7603-62-5
Silver Metal	7440-22-4
Silver Soluble compounds	7440-22-4

Soapstone - Inhalable	
Soapstone - Respirable	
Sodium azide	26628-22-8
Sodium bisulfite	7631-90-5
Sodium 2,4-dichloro-phenoxyethyl sulfate	
Sodium fluoroacetate	62-74-8
Sodium hydroxide	1310-73-2
Sodium metabisulfite	7681-57-4
Starch	9005-25-8
Stearates	
Stibine	7803-52-3
Strontium chromate	
Strychnine	57-24-9
Subtilisins (Proteolytic enzymes as 100% pure crystalline enzyme)	1395-21-7; 9014-01-1
Sucrose	57-50-1
Sulfometuron methyl	74222-97-2
Sulfotep	3689-24-5
Sulfur dioxide	
Sulfur hexafluoride	2551-62-4
Sulfuric acid	7664-93-9
Sulfur monochloride	10025-67-9
Sulfur pentafluoride	5714-22-7
Sulfur tetrafluoride	7783-60-0
Sulfuryl fluoride	2699-79-8
Sulprofos	35400-43-2
Synthetic vitreous fibers - Continuous filament glass fibers	
Systox	
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	93-76-5
Talc (containing no asbestos fibers)	14807-96-6
Tantalum metal and oxide dusts, as Ta	7440-25-7
TEDP	
Tellurium and compounds	13494-80-9
Tellurium hexafluoride	7783-80-4
Temephos	3383-96-8
TEPP	107-49-3
Terephthalic acid	100-21-1
Terphenyls	26140-60-3
1,1,1,2-Tetrachloro-2,2-difluoroethane	
1,1,2,2-Tetrachloro-1,2-difluoroethane	
1,1,2,2-Tetrachloroethane	79-34-5
Tetrachloroethylene	
Tetrachloromethane	
Tetrachloronaphthalene	1335-88-2
Tetraethyl lead	78-00-2
Tetrahydrofuran	109-99-9
Tetramethyl lead	75-74-1
Tetramethyl succinonitrile	3333-52-6

Tetranitromethane	509-14-8
Tetrasodium pyrophosphate	7722-88-5
Tetryl	479-45-8
Thallium, elemental and soluble compounds	
4-4' - Thiobis(6-tert-butyl-m-cresol)	96-69-5
Thioglycolic acid	68-11-1
Thionyl chloride	7719-09-7
Thiram	137-26-8
Tin metal	7440-31-5
Tin oxide & inorganic compounds, except SnH4	
Tin organic compounds	
Titanium dioxide	13463-67-7
Toluene	108-88-3
Toluene-2,4-diisocyanate (TDI)	584-84-9
o-Toluidine	95-53-4
m-Toluidine	108-44-1
p-Toluidine	106-49-0
Toluol	
Toxaphene	
Tributyl phosphate	126-73-8
Trichloroacetic acid	76-03-9
1,2,4-Trichlorobenzene	120-82-1
1,1,2-Trichloroethane	79-00-5
Trichlorofluoromethane	75-69-4
Trichloromethane	
Trichloronaphthalene	1321-65-9
Trichloronitromethane	
1,2,3-Trichloropropane	96-18-4
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1
Tricyclohexyltin hydroxide	
Tridymite	
Triethanolamine	102-71-6
Triethylamine	121-44-8
1,3,5-Triglycidyl-s-triazinetrione	2451-62-9
Trifluorobromomethane	75-63-8
Trimellitic anhydride	552-30-7
Trimethyl benzene	25551-13-7
Trimethyl phosphite	121-45-9
2,4,6-Trinitrophenol	
2,4,6-Trinitrophenylmethylnitramine	
2,4,6-Trinitrotoluene (TNT)	118-96-7
Triorthocresyl phosphate	78-30-8
Triphenyl amine	603-34-9
Triphenyl phosphate	115-86-6
Tripoli	
Tungsten - Insoluble compounds	7440-33-7
Tungsten - Soluble compounds	7440-33-7
Turpentine	8006-64-2
Uranium (natural) Soluble and Insoluble compounds	7440-61-1

n-Valeraldehyde	110-62-3
Vanadium pentoxide	1314-62-1
Vegetable oil mists	
Vinyl benzene	
Vinyl bromide	593-60-2
Vinyl cyanide	
4-vinyl cyclohexene	100-40-3
Vinyl cyclohexene dioxide	106-87-6
Vinylidene chloride	75-35-4
Vinyl toluene	25013-15-4
Warfarin	81-81-2
Welding fumes	
Wood dust - Hard wood	
Wood dust - Soft wood	
Xylene (o-,m-, p-isomers)	1330-20-7
m-Xylene α,α'-diamine	1477-55-0
Xylidine (mixed isomers)	1300-73-8
Yttrium metal and compounds, as Y	7440-65-5
Zinc chloride fume	7646-85-7
Zinc chromates, as Cr	13530-65-9
Zinc oxide - Fume	1314-13-2
Zinc oxide - Dust	1314-13-2
Zirconium and compounds, as Zr	7440-67-7
0	
NOT INCLUDED IN CHEMICAL LIST	
Notice of intended changes (for 1997)	
Acrolein	107-02-8
Allyl glycidyl ether	106-92-3
Asphalt (Petroleum; Bitumen) fume, as cyclohexane-extractable inhalable particulate	8052-42-4
n-Butanol	71-36-3
n-Butyl acetate	123-86-4
Coal Dust - Bituminous	
Coal Dust - Antracite	
Copper and inorganic compounds, as Cu - Fume and respirable particulate	7440-50-8
Copper and inorganic compounds, as Cu - Inhalable particulate, dusts and mists	
Crotonaldehyde	4170-30-3
Diesel exhaust, particulate (<1µM)	
Diesel fuel/Kerosene	
Diethyl ketone	96-22-0
Ethyl butyl ketone	106-35-4
Ethyl cyanoacrylate	7085-85-0
Glutaraldehyde	111-30-8
n-Hexane	110-54-3
1-Hexene	592-41-6
Methyl n-butyl ketone	591-78-6
Methyl 2-cyanoacrylate	137-05-3

Methyl vinyl ketone	78-94-4
Nickel - Elemental/metal	7440-02-0
Nickel - Soluble compounds	
Nickel - Insoluble compounds	
Nickyl - Nickel carbonyl	13463-39-3
Nickel subsulfide	12035-72-2
Nickel sulfide roasting, fume & dust	
Oil mist, mineral	
Oil mist, mineral, sum total of 15 polynuclear aromatic hydrocarbons (PAHs) listed as carcinogens by the U.S National toxicology Program (NTP)	
Ozone Heavy work	10028-15-6
Ozone Moderate work	10028-15-6
Ozone Light work	10028-15-6
Ozone light, moderate, or heavy workloads	10028-15-6
Pentane (all isomers)	
1,1,2,2-Tetrachloroethane	79-34-5
Vinylidene chloride	75-35-4

V.D. Process Descriptions

The Scotts Hyponex Tyler and Hyponex Huntsville facilities produce growing media (mulches, soil blends, and soil amendments) from raw materials (soil, bark, sand, sphagnum peat, fertilizers, etc.). Finished growing media products are bagged and stored prior to shipment for distribution.

The portable tub grinder (Morbark 1300B, SN 572-1543) operates at both facilities during a calendar year to reduce the size of wood materials (white wood chips and raw bark) before mixing in the production lines. Water spray will be added as necessary during the grinding process to control particulate emissions.

Raw materials are unloaded at the truck unloading pad and transferred to raw material storage piles. Front end loaders move the raw material from the stockpile to the grinder. The raw material is loaded into the hopper and ground. Milled material (mulch and bark fines) is dropped on a conveyor and temporarily stockpiled until it is transferred to the milled material staging area. Front end loaders transfer the milled material to the production area for mixing and/or bagging.

V.E. Maximum Emissions Data and Calculations

PBR 261(a)(7)(B) will be used to authorize the particulate matter emissions units from the portable tub grinder.

Control of particulate matter will include enclosures and moisture content. The grinder tub is partially enclosed. Water sprays will be used as necessary to control emissions from the grinding and material handling/storage operations.

A summary of emissions rates, PBR 261 emission limits, emission factor references, and emission calculation methodologies are presented in the following spreadsheet.

Emission calculation methodologies are consistent with emission calculation methodologies for Scotts Hyponex Tyler's PBR 262 Registration (No. 106752).

Summary
106.261(a)(7)(B) Annual Notification
Morbark Tub Grinder

SUMMARY OF EMISSION RATES AND PBR 261 LIMITS

Annual Hours of Operation:	2,655
Tons Processed:	129,500

Emission Point Number	Air Emission Source	Actual Emission Rates				PBR 261(a)(2) Emission Limits (Cellulose Fiber)	
		PM_{10}		TSP/PM			
		lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr
GRINDING	Morbark Tub Grinder	0.70	0.93	1.17	1.55		
TRANSFER	Raw and Processed Wood Transfers	0.28	0.38	0.60	0.79		
	TOTAL	**0.99**	**1.31**	**1.77**	**2.35**	**6**	**10**

Hyponex Location	Site RN No.	Year	Hours of Operation	Tons Processed
Tyler, TX	RN106868953	2024	655	29,500
Huntsville, TX	RN101064079		2,000	100,000
Total			**2,655**	**129,500**

Morbark Tub Grinder
Wood Chip Grinding

Basis:
1 - The emission factor for "Log Debarking" from a previous edition of AP-42, Table 10.3-1 of (0.024 lb TSP/ton) was used to estimate PM emissions. Approximately 60% of the particulate emissions are assumed to be PM_{10}. Emission rates are calculated without the addition of water sprays to suppress dust. Water sprays will be added to meet 106.261(a)(5) requirements: *Visible emissions, except uncombined water, to the atmosphere from any point or fugitive source shall not exceed 5.0% opacity in any six-minute period.* Source: Bay Area Air Quality Management District Permit Handbook, 11.13 Tub Grinders, July 26, 2016.

2 - $PM_{2.5}$ is estimated at 25% of PM. Source: USEPA Memo dated May 8, 2014 "Particulate Matter Potential to Emit Emission Factors for Activities at Sawmills, Excluding Boilers, Located in Pacific Northwest Indian Country" (log debarking)

Annual Totals	
Hours of Operation	Tons Processed
2,655	129,500

Emission Factors [1]		
Source	PM Emission Factor (lb/ton)	$PM_{10}/PM_{2.5}$ Emission Factor (lb/ton)
Log Debarking	0.024	0.014

PM Emission Calculations		
PM (tons/yr) =	(tons/yr	2024
	1.55	tons/yr
PM (lbs/hr)	(tons/yr X 2000	2024
	1.17	lbs/hr

$PM_{10}/PM_{2.5}$ Emission Calculations		
$PM_{10}/PM_{2.5}$ (tons/yr) =	(tons/yr throughput) (0.014 lb PM_{10}/ton) / 2000 lbs/ton	
	0.93	tons/yr
$PM_{10}/PM_{2.5}$ (lbs/hr) =	(tons/yr X 2000 lb/ton) / hours of operation/year	
	0.70	lbs/hr

Note: $PM_{2.5}$ is assumed to be equal to PM_{10}

Morbark Tub Grinder
Wood Chip Transfers

Basis:
Predictive Emission Factor Equations from Aggregate Handling and Storage Piles. (AP-42, Section 13.2.4.3, 11/06)

Source Parameters					
Pollutant	**Annual**	**Particle Size**	**# of Drops in**	**Average**	**k1**
PM_{10}	129,500	10	8	5.0	0.35
TSP	129,500	30	8	5.0	0.74

Average Wind Speed of Area (U) 9.60 mph
Annual Hours of Operation 2,655 hours

Calculations:
AP-42 (section 13.2.4.3) lb/ton of material

$$Emission\ factor\ (lb/ton) = k * (0.0032) * \frac{\left(\frac{U}{5}\right)^{1.3}}{\left(\frac{M}{2}\right)^{1.4}}$$

where:
k1= particle size multiplier from AP-42 Section 13.2.4.3 [2]
M = material moisture content (%)
U = mean wind speed (mph)

PM_{10} average emission factor
AP-42 (lbs/ton)
= (0.35) x (0.0032) x [(9.6/5)^1.3/(5/2)^1.4]
= ***0.00073*** lb/ton

TSP average emission factor
AP-42 (lbs/ton)
= (0.74) x (0.0032) x [(9.6/5)^1.3/(5/2)^1.4]
= ***0.00153*** lb/ton

Emission Rates for Transfers:
TPY = (Average AP-42 Emission Factor) x (Material Transfer Rate) x (Num. of Drops) / 2000 lb/ton
lbs/hr = TPY X 2000 lb/ton / annual hours of operation

	TPY		lbs/hour	
=	***0.38***	**PM_{10}**	***0.28***	**PM_{10}**
=	***0.79***	**TSP**	***0.60***	**TSP**

Notes:
[1] Drop 1: from haul truck to unloading pad; Drop 2: from front-end loader to storage pile; Drop 3: from front-end loader to hopper; Drop 4: from hopper to conveyor; Drop 5: from conveyor to tub grinder; Drop 6: from tub grinder to conveyor; Drop 7: from conveyor to temporary storage pile; and Drop 8: from temporary storage pile to stockpile.

[2] Emission rates are calculated without the addition of water sprays to suppress dust. Water sprays will be added to meet 106.261(a)(5) requirements: *Visible emissions, except uncombined water, to the atmosphere from any point or fugitive source shall not exceed 5.0% opacity in any six-minute period.*

Aerodynamic Particle Size Multiplier Table	
k1 value	Particle Size (micrometers)
0.74	<30
0.48	<15
0.35	<10
0.2	<5
0.053	<2.5