



Department of Environmental Protection

Jeb Bush
Governor

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Colleen M. Castille
Secretary

August 31, 2006

CERTIFIED MAIL – Return Receipt Requested

Mr. David Lakeman
Plant Manager
The Lane Construction Corporation
Kathleen Site
3350 Reynolds Road
Eaton Park, Florida 33840

RE: Request for Air Construction Permit for a Statewide Relocatable Permit
Asphalt Batch Plant - Kathleen Site
Project No.: 7773530-001-AC

Dear Mr. Lakeman:

On July 26, 2006, the Department received your application for an air construction permit for authorization to build an Asphalt Drum Mix Batch Plant along with a portable Recycle Asphalt Pavement (RAP) Crusher in Kathleen, Polk County, Florida; and, on August 21, 2006, a supplemental application was also received to construct a Limestone and Aggregate Crusher at the Kathleen Site. The application package is considered to be incomplete. In order to continue processing your application, the Department will need the additional information requested below. Should your response to any of the items below require new calculations, please submit the new calculations, assumptions, reference material and appropriate revised pages of the application form.

1. Regarding the Limestone and Aggregate Crusher, the application did not indicate any control measures for the operation in the application. Yet, in the brochures that were attached at the end of the application package, "dust suppression sprays fitted as standard" were indicated as part of the crusher system. Were the potential emissions from the crusher based on these controls? Will these control measures be part of the actual purchased system? Please respond and update the application as appropriate.
2. In the application's attachments for the Limestone and Aggregate Crusher, specifically the table on "Potential Emissions", a fuel oil specification of No. 2 fuel oil with a maximum sulfur content of 0.05%, by weight, is listed. In the application part, specifically the Segment (Process/Fuel) Information, page 40, the maximum sulfur content of the distillate oil is listed as 0.5%, by weight. Please resolve the discrepancy and submit any corrections.
3. In the attachments for the Limestone and Aggregate Crusher, specifically the table for "Potential Emissions", the source of the AP-42 Emission Factors was stated as Table 3.3-2. It appears that the table used was Table 3.3-1? If this is so, please correct and resubmit the table and/or any application pages as appropriate. Also, what sulfur content percent, by weight, is the emission factor based on for SO₂ in the table?
4. In the attachments for the RAP Crusher, specifically the table for "Potential Emissions on No. 2 Distillate Fuel Oil", the source of the AP-42 Emission Factors was stated as Table 3.3-2. It appears that the table that was used was Table 3.3-1? If this is so, please correct and resubmit the table and/or any application pages as appropriate. Also, what sulfur content percent, by weight, is the emission factor based on for SO₂ in the table?
5. Regarding the Limestone and Aggregate Crusher, there is a diesel powered electrical generator listed in the application for providing power for the conveying system. Is there electricity at the site supplied by the power grid? If so, will you still be operating the diesel powered electrical generator at the site while the power grid electricity is available? If so, please explain why?
6. Regarding the Limestone and Aggregate Crusher, is the material to be processed by this operation wet? What is the moisture content of the material to be processed?

"More Protection, Less Process"

Printed on recycled paper.

Mr. David Lakeman
The Lane Construction Corporation
Kathleen Site - Asphalt Batch Plant
Project No.: 7773530-001-AC
Page 2 of 2

7. Is there any language in the air permits, Nos. 7775202-004-AC and 7775202-005-AO, that prevents the authorized asphalt plant and any associated equipment (Crusher, etc.) from operating with another asphalt plant at the Kathleen Site? Will both asphalt plants be on the site at the same time? Will they be dispatched from this site?

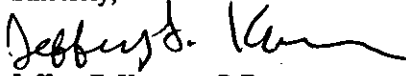
8. What control measures will be used at the Kathleen Site and any future sites for the control of unconfined particulate emissions both from storage piles and roadways?

9. The Department will require a Public Notice to be published identifying each of the initial sites at which the relocatable asphalt batch plant (plant) will be operated. Prior to relocating the plant to a site that has not been previously identified in the Public Notice, the Department will require a notice of relocation and a new Public Notice with a 14-day comment period and a 14-day period for petitioning the project; and, upon completion of this notice period, the operation will have to be amended to identify the new locations. Based on the application, the proposed project is only for the Kathleen Site. Please comment.

10. If any response to the above issues affect the application submittal, including attachments and supporting documents, please correct and/or change the application, including attachments and supporting documents, to reflect the corrections and/or changes and submit.

The Department will resume processing your application after receipt of the requested information. Rule 62-4.050(3), F.A.C., requires that all applications for a Department permit must be certified by a professional engineer registered in the State of Florida. This requirement also applies to responses to Department requests for additional information of an engineering nature. For any material changes to the application, please include a new certification statement by the authorized representative or responsible official. You are reminded that Rule 62-4.055(1), F.A.C. requires applicants to respond to requests for information within 90 days or provide a written request for an additional period of time to submit the information. If you have any questions regarding this matter, please call Bruce Mitchell at (850)413-9198.

Sincerely,



Jeffrey F. Koerner, P.E.
Permitting North Administrator
Bureau of Air Regulation

JFK/bm

cc: Mara Nasca, SWD
Douglas W. Bauman, P.E., BAI
Roger Caldwell, BAI
Ronald Starr, Facility Contact, TLCC

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Mr. David Lakeman, Plant Manager
 The Lane Construction Corporation
 Kathleen Site
 3350 Reynolds Road
 Eaton Park, Florida 33840

COMPLETE THIS SECTION ON DELIVERY

A. Signature
 X *Shelley Fox* Agent Addressee

B. Received by (Printed Name) *Shelley Fox* C. Date of Delivery *9-8-06*

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type
 Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes

2. Article Number (Transfer from service label) **7000 1670 0013 3110 1175**

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Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		

Mr. David Lakeman, Plant Manager
 The Lane Construction Corporation
 Kathleen Site
 3350 Reynolds Road
 Eaton Park, Florida 33840

PS Form 3800, May 2000 See Reverse for Instructions

6729 Edgewater Commerce Parkway • Orlando, Florida • 32810-4278
Toll Free 800 811-1129 Phone 407 298-0846 • Fax: 407 299-7053

August 14, 2006

Project: 2406

Bruce Mitchell, Air Permitting Engineer
Division of Air Resource Management
Florida Department of Environmental Protection
2600 Blair Stone Road MS 5505
Tallahassee, Florida 32399-2400

RECEIVED

AUG 21 2006

BUREAU OF AIR REGULATION

Polk County - AP
The Lane Construction Corporation
Kathleen, FL Asphalt Plant and Mining Operation
13300 Howard Blvd., Kathleen, FL 33849

Dear Mr. Mitchell,

As discussed between yourself and Roger Caldwell, we are submitting the attached information as an addendum to the previously submitted application for the subject site.

This is for an additional emissions unit, so we are attaching an additional permit fee of \$1,000.00 to cover this limestone and aggregate crushing system.

The crushing system consists of the following:

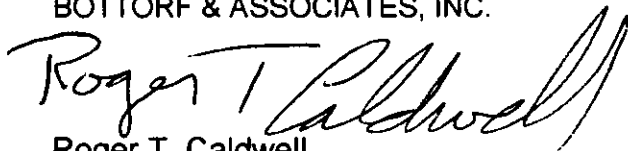
1. 1165HA Premiertrak Track mounted Jaw Crusher (with diesel engine), manufactured by BL-Pegson Limited
2. 428 Trakpactor Track mounted Impact Crusher (with diesel engine), manufactured by BL-Pegson Limited
3. dry screen
4. wet screen
5. several conveyors
6. diesel powered electric generator to run the conveyors

We have attached a new P.E. signature page, a new scope of application page, a new construction/modification page, a new (additional) emissions unit section, spreadsheet emission calculations, flow diagram, and information from the manufacturer of the 2 crushers.


If you have any questions or need additional information please call Roger Caldwell at 407.298.0846 or his cell at 407.341.4971.

Respectfully submitted,

BOTTORF & ASSOCIATES, INC.



Roger T. Caldwell,
Vice President Environmental Division



Douglas W. Bauman, MSE, P.E.
Associate Professional Engineer
Florida License No. 50807

4. Professional Engineer Statement:

I, the undersigned, hereby certify, except as particularly noted herein, that:*

(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this Application for Air Permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and

(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.

If the purpose of this application is to obtain an air construction permit for one or more proposed new or modified emissions units (check here [X], if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.

If the purpose of this application is to obtain an initial air operation permit or operation permit revision for one or more newly constructed or modified emissions units (check here [], if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.

Signature

(seal)

Date

* Attach any exception to certification statement.

THE LANE CONSTRUCTION CORPORATION, PLANT 67, AUGUST 2006

1. The first part of the document is a letter from the author to the editor of the journal. The letter discusses the author's interest in the topic and the reasons for writing the paper.

2. The second part of the document is the abstract of the paper. It provides a brief summary of the main findings and conclusions of the study.

3. The third part of the document is the introduction. It sets the context for the study and outlines the objectives of the research.

4. The fourth part of the document is the literature review. It discusses the existing research on the topic and identifies the gaps that the current study aims to address.

5. The fifth part of the document is the methodology. It describes the research design, data collection methods, and statistical analyses used in the study.

6. The sixth part of the document is the results. It presents the findings of the study and discusses their implications.

7. The seventh part of the document is the conclusion. It summarizes the main findings and provides recommendations for future research.

8. The eighth part of the document is the references. It lists the sources of information used in the study.

9. The ninth part of the document is the appendix. It contains supplementary information that supports the main text of the paper.

Scope of Application

Emissions Unit ID	Description of Emissions Unit	Permit Type	Processing Fee
	200 TON/ HOUR DRUM MIX ASPHALT PLANT NO. 67	AC1D	\$ 2000.00
	250 TON/ HOUR RECYCLE ASPHALT PAVEMENT (RAP) CRUSHING SYSTEM	AC1E	\$ 1000.00
	120 TON/ HOUR LIMESTONE CRUSHING SYSTEM	AC1E	\$ 1000.00

Application Processing Fee

Check one: [] Attached - Amount: \$ 4000.00 [] Not Applicable

Construction/Modification Information

Description of Proposed Project or Alterations: (1) THIS PROJECT IS FOR A CONSTRUCTION PERMIT FOR A 200 TON/HOUR BARBER GREEN DRUM MIX ASPHALT PLANT (PLANT #67). THE DRUM MIXER IS A MODEL NO. DM 55. PARTICULATE EMISSIONS WILL BE CONTROLLED WITH A ROAD EQUIPMENT SERVICES CO. LTD PULSE JET BAGHOUSE, MODEL NO. ROA-DCP 480, HAVING 480 NOMEX FIBER BAGS, TOTAL CLOTH AREA OF 6,028.8 SQUARE FEET, WITH AN AIR TO CLOTH RATIO OF 5.97 TO 1, AND A PARTICULATE COLLECTION EFFICIENCY OF 99.9%.

(2) THIS PROJECT IS ALSO FOR A CONSTRUCTION PERMIT FOR A 250 TON/HOUR PORTABLE RECYCLE ASPHALT PAVEMENT (RAP) CRUSHING SYSTEM. THE RAP CRUSHING SYSTEM IS OWNED BY A DIFFERENT COMPANY AND IS BROUGHT TO THIS ASPHALT PLANT SITE FROM TIME TO TIME TO CRUSH THE RAP INTO A SMALLER SIZE THAT CAN BE USED IN THE MANUFACTURE OF NEW HOT MIX ASPHALT.

(3) THIS PROJECT IS ALSO FOR A CONSTRUCTION PERMIT FOR A 120 TON/HOUR LIMESTONE AND AGGREGATE CRUSHING SYSTEM

2. Projected or Actual Date of Commencement of Construction: **AFTER PERMIT ISSUANCE**

3. Projected Date of Completion of Construction: **6 MONTHS AFTER COMMENCEMENT**

Application Comment

THE ASPHALT PLANT ALSO HAS THE FOLLOWING:

1.) **CLEAVER BROOKS OIL HEATER, MODEL CPT 100-20 WITH A MAXIMUM HEAT INPUT OF 2.0 MMBTU/HOUR, FIRED WITH NO. 2 DIESEL FUEL OIL (0.5% SULFUR MAX.). THIS UNIT IS INSIGNIFICANT. FUEL OIL BURNED IN THIS UNIT IS INCLUDED IN THE 1.2 MILLION GALLON/YEAR FACILITY MAXIMUM.**

2.) **ONE (1) 50 TON HOT MIX ASPHALT STORAGE SILO.**

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Description and Status

<p>1. Type of Emissions Unit Addressed in This Section: (Check one)</p> <p><input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).</p> <p><input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.</p> <p><input checked="" type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.</p>		
<p>4. Description of Emissions Unit Addressed in This Section (limit to 60 characters):</p> <p>120 TPH LIMESTONE AND AGGREGATE CRUSHER</p>		
<p>3. Emissions Unit Identification Number: ID:</p>		<p><input type="checkbox"/> No ID <input checked="" type="checkbox"/> ID Unknown</p>
<p>4. Emissions Unit Status Code: C</p>	<p>9. Initial Startup Date:</p>	<p>6. Emissions Unit Major Group SIC Code: 29</p>
<p>10. Emissions Unit Comment: (Limit to 500 Characters)</p> 		

Emissions Unit Control Equipment

3. Control Equipment/Method Description (limit to 200 characters per device or method):
NONE

2. Control Device or Method Code(s):

Emissions Unit Details

1. Package Unit:

Manufacturer: Model Number:

2. Generator Nameplate Rating: MW

3. Incinerator Information:

Dwell Temperature: °F

Dwell Time: seconds

Incinerator Afterburner Temperature: °F

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate: mmBtu/hr

2. Maximum Incineration Rate: lb/hr tons/day

3. Maximum Process or Throughput Rate: **120 TPH AND 250,000 TONS/YEAR**

4. Maximum Production Rate: **120 TPH AND 250,000 TONS/YEAR**

5. Requested Maximum Operating Schedule:

hours/day days/week

weeks/year hours/year **2100**

6. Operating Capacity/Schedule Comment (limit to 200 characters): **WE REQUEST THAT THERE BE NO RESTRICTIONS ON HOURS PER DAY, DAYS PER WEEK, OR WEEKS PER YEAR.**

B. EMISSION POINT (STACK/VENT) INFORMATION**Emission Point Description and Type**

1. Identification of Point on Plot Plan or Flow Diagram?		2. Emission Point Type Code: 4	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point):			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
5. Discharge Type Code: F	6. Stack Height: feet	7. Exit Diameter: feet	
8. Exit Temperature: 70 °F	9. Actual Volumetric Flow Rate: acfm	10. Water Vapor: %	
11. Maximum Dry Standard Flow Rate: dscfm		12. Nonstack Emission Point Height: 15 feet	
13. Emission Point UTM Coordinates: Zone: 17 East (km): 392.76 North (km): 3124.28			
14. Emission Point Comment (limit to 200 characters):			

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 2

1. Segment Description (Process/Fuel Type) (limit to 500 characters): LIMESTONE CRUSHING (PRIMARY CRUSHING)		
2. Source Classification Code (SCC): 3-05-020-01		3. SCC Units: TONS RAW MATERIAL
4. Maximum Hourly Rate: 120	5. Maximum Annual Rate: 250,000	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

Segment Description and Rate: Segment 2 of 2

1. Segment Description (Process/Fuel Type) (limit to 500 characters): INTERNAL COMBUSTION ENGINE - INDUSTRIAL DISTILLATE OIL (DIESEL) RECIPROCATING		
4. Source Classification Code (SCC): 2-02-001-02		3. SCC Units: 1000 GALLONS BURNED
4. Maximum Hourly Rate: 0.0198	5. Maximum Annual Rate: 41.58	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: 0.5	8. Maximum % Ash:	13. Million Btu per SCC Unit: 140
10. Segment Comment (limit to 200 characters): THIS SEGMENT INCLUDES THE FUEL OIL BURNED IN THE 300 HP DIESEL ENGINE, THE 230 HP DIESEL ENGINE AND THE DIESEL FIRED ELECTRIC POWER GENERATOR		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: PM		2. Pollutant Regulatory Code: NS	
3. Primary Control Device Code:	4. Secondary Control Device Code:	5. Total Percent Efficiency of Control:	
6. Potential Emissions: 9.475 lb/hour 9.877 tons/year		7. Synthetically Limited? [Y]	
8. Emission Factor: SEE ATTACHED SPREADSHEETS Reference: AP42, TABLE 11.19.2-2		9. Emissions Method Code: 4	
10. Calculation of Emissions (limit to 600 characters): SEE ATTACHED SPREADSHEET INCLUDES EMISSIONS FROM FUEL OIL COMBUSTION IN THE DIESEL ENGINES.			
11. Pollutant Potential Emissions Comment (limit to 200 characters):			

Allowable Emissions Allowable Emissions _____ of _____

7. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION**Potential Emissions**

1. Pollutant Emitted: PM10		2. Pollutant Regulatory Code: NS	
3. Primary Control Device Code:	4. Secondary Control Device Code:	5. Total Percent Efficiency of Control:	
6. Potential Emissions: 4.063 lb/hour 4.2395 tons/year		7. Synthetically Limited? [Y]	
8. Emission Factor: SEE ATTACHED SPREADSHEETS Reference: AP42, TABLE 11.19.2-2		9. Emissions Method Code: 4	
14. Calculation of Emissions (limit to 600 characters): SEE ATTACHED SPREADSHEETS INCLUDES EMISSIONS FROM FUEL OIL COMBUSTION IN THE DIESEL ENGINES.			
11. Pollutant Potential Emissions Comment (limit to 200 characters):			

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: SO2		2. Pollutant Regulatory Code: EL	
3. Primary Control Device Code:	4. Secondary Control Device Code:	5. Total Percent Efficiency of Control:	
6. Potential Emissions: 0.804 lb/hour 0.844 tons/year		7. Synthetically Limited? [Y]	
8. Emission Factor: 0.29 LBS/MMBTU Reference: AP42, TABLE 3.3-2		9. Emissions Method Code: 3	
15. Calculation of Emissions (limit to 600 characters): SEE ATTACHED SPREADSHEETS EMISSIONS FROM FUEL OIL COMBUSTION IN THE DIESEL ENGINES			
11. Pollutant Potential Emissions Comment (limit to 200 characters):			

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: NOX		2. Pollutant Regulatory Code: EL	
3. Primary Control Device Code:	4. Secondary Control Device Code:	5. Total Percent Efficiency of Control:	
6. Potential Emissions: 12.225 lb/hour 12.836		7. Synthetically Limited? [Y]	
8. Emission Factor: 4.41 LBS/MMBTU Reference: AP 42, TABLE 3.3-2		9. Emissions Method Code: 3	
11. Calculation of Emissions (limit to 600 characters): SEE ATTACHED SPREADSHEETS EMISSIONS FROM FUEL OIL COMBUSTION IN THE DIESEL ENGINES			
11. Pollutant Potential Emissions Comment (limit to 200 characters):			

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: CO		2. Pollutant Regulatory Code: EL	
3. Primary Control Device Code:	4. Secondary Control Device Code:	5. Total Percent Efficiency of Control:	
6. Potential Emissions: 2.633 lb/hour 2.765 tons/year		7. Synthetically Limited? [Y]	
8. Emission Factor: 0.95 LBS/TON Reference: AP 42, TABLE 3.3-2		9. Emissions Method Code: 3	
11. Calculation of Emissions (limit to 600 characters): SEE ATTACHED SPREADSHEETS EMISSIONS FROM FUEL OIL COMBUSTION IN THE DIESEL ENGINES			
11. Pollutant Potential Emissions Comment (limit to 200 characters):			

Allowable Emissions Allowable Emissions _____ of _____

8. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
9. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: VOC		2. Pollutant Regulatory Code: EL	
3. Primary Control Device Code:	4. Secondary Control Device Code:	5. Total Percent Efficiency of Control:	
6. Potential Emissions: 0.998 lb/hour 1.048 tons/year		7. Synthetically Limited? [Y]	
8. Emission Factor: 0.36 LBS/MMBTU Reference: AP 42, TABLE 3.3-2		9. Emissions Method Code: 3	
10. Calculation of Emissions (limit to 600 characters): SEE ATTACHED SPREADSHEETS EMISSIONS FROM FUEL OIL COMBUSTION IN THE DIESEL ENGINES			
11. Pollutant Potential Emissions Comment (limit to 200 characters):			

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

E. VISIBLE EMISSIONS INFORMATION
(Only Emissions Units Subject to a VE Limitation)

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: VE10	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Requested Allowable Opacity: Normal Conditions: 10% Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: EPA METHOD 9	
5. Visible Emissions Comment (limit to 200 characters): NSPS SUBPART 000 (40CFR60.672)	

F. CONTINUOUS MONITOR INFORMATION
(Only Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor _____ of _____

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information: Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment (limit to 200 characters):	

G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Process Flow Diagram <input checked="" type="checkbox"/> Attached, Document ID: <u>FLOW DIAGRAM</u> <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
2. Fuel Analysis or Specification <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested
3. Detailed Description of Control Equipment <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
4. Description of Stack Sampling Facilities <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
5. Compliance Test Report <input type="checkbox"/> Attached, Document ID: <input type="checkbox"/> Previously submitted, Date: <input checked="" type="checkbox"/> Not Applicable
6. Procedures for Startup and Shutdown <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
7. Operation and Maintenance Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
8. Supplemental Information for Construction Permit Application <input checked="" type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
9. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
10. Supplemental Requirements Comment:

THE LANE CONSTRUCTION CORP, KATHLEEN, FL
LIMESTONE MINING OPERATION
LIMESTONE AND AGGREGATE CRUSHER EMISSIONS
EMISSION FACTORS FROM AP42, TABLE 11.19.2-2

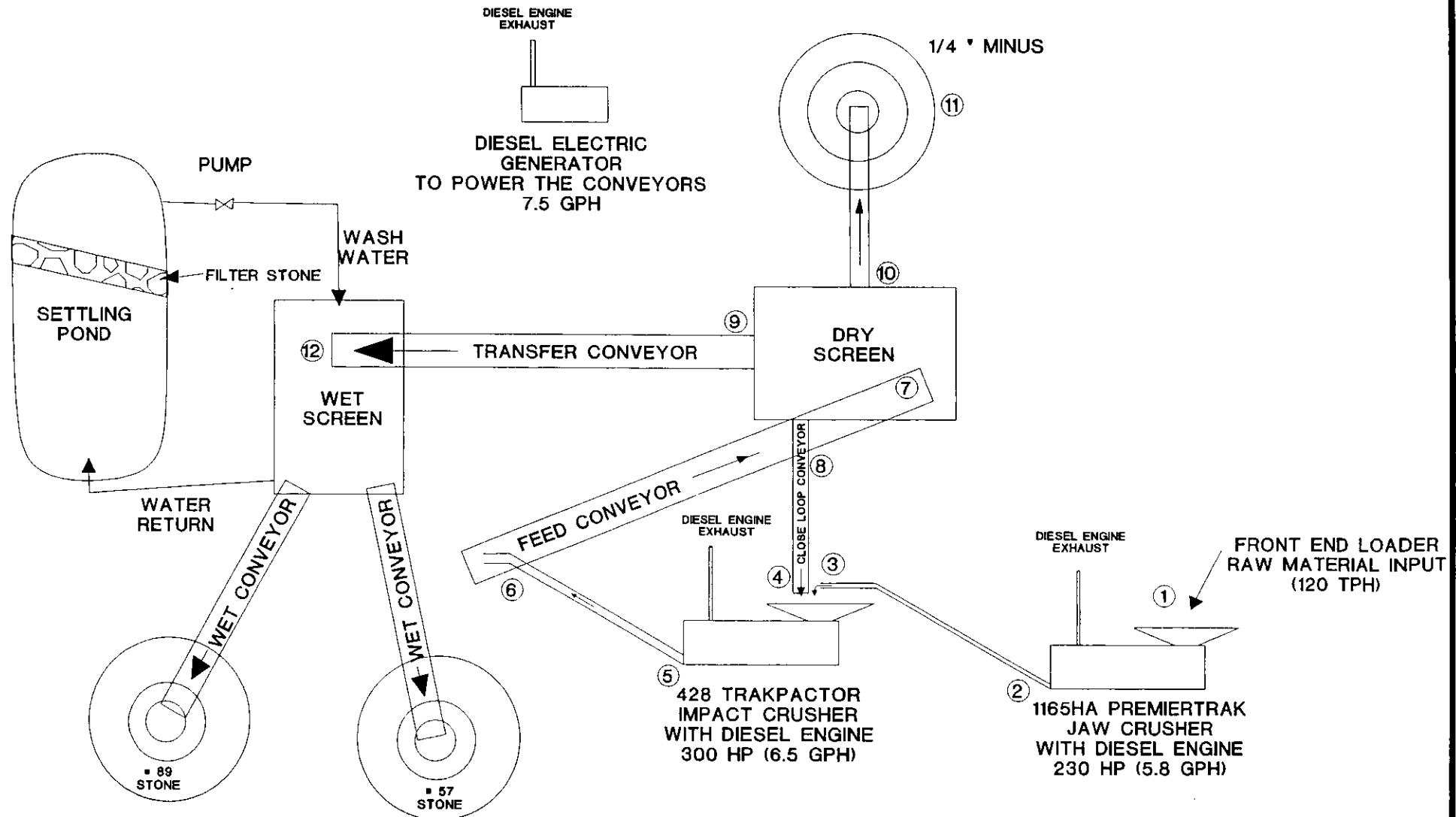
MAXIMUM AGGREGATE USAGE (TONS/YEAR) = 250000
MAXIMUM AGGREGATE USAGE (TONS/HOUR) = 120

ACTIVITY	PM EMISSION FACTOR (LB/TON)	PM EMISSIONS (TONS/YEAR)	PM EMISSIONS (LBS/HR.)	PM10 EMISSION FACTOR (LB/TON)	PM10 EMISSIONS (LBS/HR.)	PM10 EMISSIONS (TONS/YEAR)	SUBJECT TO SUBPART 000 (YES/NO)	OPACITY STANDARD (%)
DROP TO FEEDER (1)	0.003	0.375	0.36	0.0011	0.132	0.1375	YES	10
JAW CRUSHER	0.0054	0.675	0.648	0.0024	0.288	0.3	YES	15
JAW CRUSHER TO DISCHARGE CONVEYOR (2)	0.003	0.375	0.36	0.0011	0.132	0.1375	YES	10
DISCHARGE CONVEYOR TO IMPACT CONVEYOR (3)	0.003	0.375	0.36	0.0011	0.132	0.1375	YES	10
CLOSE LOOP CONVEYOR TO IMPACT CRUSHER (4)	0.003	0.375	0.36	0.0011	0.132	0.1375	YES	10
IMPACT CRUSHER	0.0054	0.675	0.648	0.0024	0.288	0.3	YES	15
IMPACT CRUSHER TO DISCHARGE CONVEYOR (5)	0.003	0.375	0.36	0.0011	0.132	0.1375	YES	10
DISCHARGE CONVEYOR TO FEED CONVEYOR (6)	0.003	0.375	0.36	0.0011	0.132	0.1375	YES	10
FEED CONVEYOR TO DRY SCREEN (7)	0.003	0.375	0.36	0.0011	0.132	0.1375	YES	10
DRY SCREEN TO CLOSE LOOP CONVEYOR (8)	0.003	0.375	0.36	0.0011	0.132	0.1375	YES	10
DRY SCREEN TO TRANSFER CONVEYOR (9)	0.003	0.375	0.36	0.0011	0.132	0.1375	YES	10
DRY SCREEN TO 1/4" MINUS CONVEYOR (10)	0.003	0.375	0.36	0.0011	0.132	0.1375	YES	10
1/4" MINUS CONVEYOR TO STOCK PILE (11)	0.003	0.375	0.36	0.0011	0.132	0.1375	YES	10
TRANSFER CONVEYOR TO WET SCREEN (12)	0.003	0.375	0.36	0.0011	0.132	0.1375	YES	10
DRY SCREEN	0.025	3.125	3	0.0087	1.044	1.0875	YES	10
TOTAL EMISSIONS	0.0718	8.975	8.616	0.0267	3.204	3.3375		

NOTE: Emission factors are from AP42, Table 11.19.2-2 for crushed stone processing.

(1) = SEE ATTACHED FLOW DIAGRAM

① = DRY MATERIAL DROP POINTS



LIMESTONE AND AGGREGATE CRUSHER FLOW DIAGRAM

ROTTOFF
Associates Inc.
 CONSULTING ENGINEERS-ANALYTICAL LABORATORY
 6729 EDEWATER COMMERCE PARKWAY DELAND, FLORIDA 32819-4278
 PHONE: (407) 278-1824

THE LANE CONSTRUCTION CORP.
KATHLEEN, POLK COUNTY, FLORIDA

DATE:	REVISION:

DRAWN BY: RTC	DATE: 8/14/06
REVIEWED BY: RTC	VERSION: R 1.02
SCALE: No Scale	FILENAME: FLOW2406

2406
 PROJECT NO.

Table 11.19.2-2 (English Units). EMISSION FACTORS FOR CRUSHED STONE PROCESSING OPERATIONS (lb/Ton)^a

Source ^b	Total Particulate Matter ^{r,s}	EMISSION FACTOR RATING	Total PM-10	EMISSION FACTOR RATING	Total PM-2.5	EMISSION FACTOR RATING
Primary Crushing (SCC 3-05-020-01)	ND		ND ^a		ND ^a	
Primary Crushing (controlled) (SCC 3-05-020-01)	ND		ND ^a		ND ^a	
Secondary Crushing (SCC 3-05-020-02)	ND		ND ^a		ND ^a	
Secondary Crushing (controlled) (SCC 3-05-020-02)	ND		ND ^a		ND ^a	
Tertiary Crushing (SCC 3-050030-03)	0.0054 ^d	E	0.0024 ^a	C	ND ^a	
Tertiary Crushing (controlled) (SCC 3-05-020-03)	0.0012 ^a	E	0.00054 ^p	C	0.00010 ^q	E
Fines Crushing (SCC 3-05-020-05)	0.0390 ^a	E	0.0150 ^a	E	ND	
Fines Crushing (controlled) (SCC 3-05-020-05)	0.0030 ^l	E	0.0012 ^l	E	0.000070 ^q	E
Screening (SCC 3-05-020-02, 03)	0.025 ^c	E	0.0087 ^l	C	ND	
Screening (controlled) (SCC 3-05-020-02, 03)	0.0022 ^d	E	0.00074 ^m	C	0.000050 ^q	E
Fines Screening (SCC 3-05-020-21)	0.30 ^z	E	0.072 ^k	E	ND	
Fines Screening (controlled) (SCC 3-05-020-21)	0.0036 ^z	E	0.0022 ^k	E	ND	
Conveyor Transfer Point (SCC 3-05-020-06)	0.0030 ⁿ	E	0.00110 ⁿ	D	ND	
Conveyor Transfer Point (controlled) (SCC 3-05-020-06)	0.00014 ^l	E	4.6 x 10 ⁻⁵ⁿ	D	1.3 x 10 ^{-5q}	E
Wet Drilling - Unfragmented Stone (SCC 3-05-020-10)	ND		8.0 x 10 ^{-9j}	E	ND	
Truck Unloading -Fragmented Stone (SCC 3-05-020-31)	ND		1.6 x 10 ^{-9j}	E	ND	
Truck Unloading - Conveyor, crushed stone (SCC 3-05-020-32)	ND		0.00010 ^k	E	ND	

a. Emission factors represent uncontrolled emissions unless noted. Emission factors in lb/Ton of material of throughput. SCC = Source Classification Code. ND = No data.

b. Controlled sources (with wet suppression) are those that are part of the processing plant that employs current wet suppression technology similar to the study group. The moisture content of the study group without wet suppression systems operating (uncontrolled) ranged from 0.21 to 1.3 percent, and the same facilities operating wet suppression systems (controlled) ranged from 0.55 to 2.88 percent. Due to carry over of the small amount of moisture required, it has been shown that each source, with the exception of crushers, does not need to employ direct water sprays. Although the moisture content was the only variable measured, other process features may have as much influence on emissions from a given source. Visual observations from each source under normal operating conditions are probably the best indicator of which emission factor is most appropriate. Plants that employ substandard control measures as indicated by visual observations should use the uncontrolled factor with an appropriate control efficiency that best reflects the effectiveness of the controls employed.

c. References 1, 3, 7, and 8

d. References 3, 7, and 8

**LANE CONSTRUCTION CORPORATION
KATHLEEN FLORIDA
THREE DIESEL ENGINES FOR LIMESTONE/AGGREGATE CRUSHER
POTENTIAL EMISSIONS**
BASED ON AP-42 5TH EDITION EMISSION FACTORS FOR UNCONTROLLED DIESEL INDUSTRIAL ENGINES

FUEL TYPE	NEW NO. 2 FUEL OIL
MAXIMUM OPERATING TIME (HRS/YR)	2100
MAXIMUM FUEL SULFUR CONTENT (%)	0.05
MAXIMUM HEAT INPUT (MMBTU/HR)	2.772
MAXIMUM NO. 2 FUEL OIL RATE (GAL/HR)	19.80
MAXIMUM HEAT INPUT ON OIL PER YEAR (MMBTU/YR)	5821.20
MAXIMUM NO. 2 FUEL OIL USAGE PER YEAR (GALLONS)	41580.00

POLLUTANT	EMISSION FACTOR	SOURCE OF EMISSION FACTOR	EMISSION FACTOR UNITS	EMISSION RATE (LBS/HR)	EMISSION RATE (TONS/YEAR)
PARTICULATE <10 UM (PM10)	0.31	AP42 TABLE 3.3-2	LBS/MMBTU (FUEL INPUT)	0.859	0.902
SULFUR DIOXIDE (SO ₂)	0.29	AP42 TABLE 3.3-2	LBS/MMBTU (FUEL INPUT)	0.804	0.844
NITROGEN OXIDES (NOX)	4.41	AP42 TABLE 3.3-2	LBS/MMBTU (FUEL INPUT)	12.225	12.836
CARBON MONOXIDE (CO)	0.95	AP42 TABLE 3.3-2	LBS/MMBTU (FUEL INPUT)	2.633	2.765
VOC (TOC)	0.36	AP42 TABLE 3.3-2	LBS/MMBTU (FUEL INPUT)	0.998	1.048

NOTE: THIS IS THE POTENTIAL EMISSIONS FROM THE COMBINED 3 DIESEL ENGINES, INCLUDING THE DIESEL ELECTRIC GENERATOR (7.5GPH), 300 HP DIESEL ENGINE (6.5GPH), AND 230 HP DIESEL ENGINE(5.8GPH)
TOTALS FUEL USAGE = 19.8 GPH, HEAT INPUT = 19.8 GPH X 140,000 BTU/GALLON = 2.772 MMBTU/HOUR

DESIGNED FOR POWER

For contractors looking for a tracked crushing plant that can achieve capacities of up to 386 StpH then look no further - the 1165HA Premiertrak is an outstanding plant.

Engineered especially for applications requiring a high production capacity, the 1165HA Premiertrak can be easily adjusted and is able to accept large material due to the high swing jaw and aggressive crushing action.

The 1165 Premiertrak features the unique "M" series high performance single toggle jaw, a sturdy high quality chassis for long life and a heavy duty vibrating grizzly feeder.

The addition of crusher hydraulic setting adjustment system allows the operator to run the plant at its optimum setting at all times. For further details see the HA jaw crusher page.

Advantages

- ▶ High output and excellent reduction capacity
- ▶ Aggressive crushing action with high swing jaw
- ▶ Track mounted
- ▶ Heavy duty fabricated chassis and track frame
- ▶ Tight setting capability
- ▶ Rapid set-up time and ease of transportation
- ▶ Dust suppression sprays fitted as standard
- ▶ Low fuel consumption typically only 5.8 US gallons / hour
- ▶ Optional radio remote control system for approved countries
- ▶ Dust suppression sprays fitted as standard

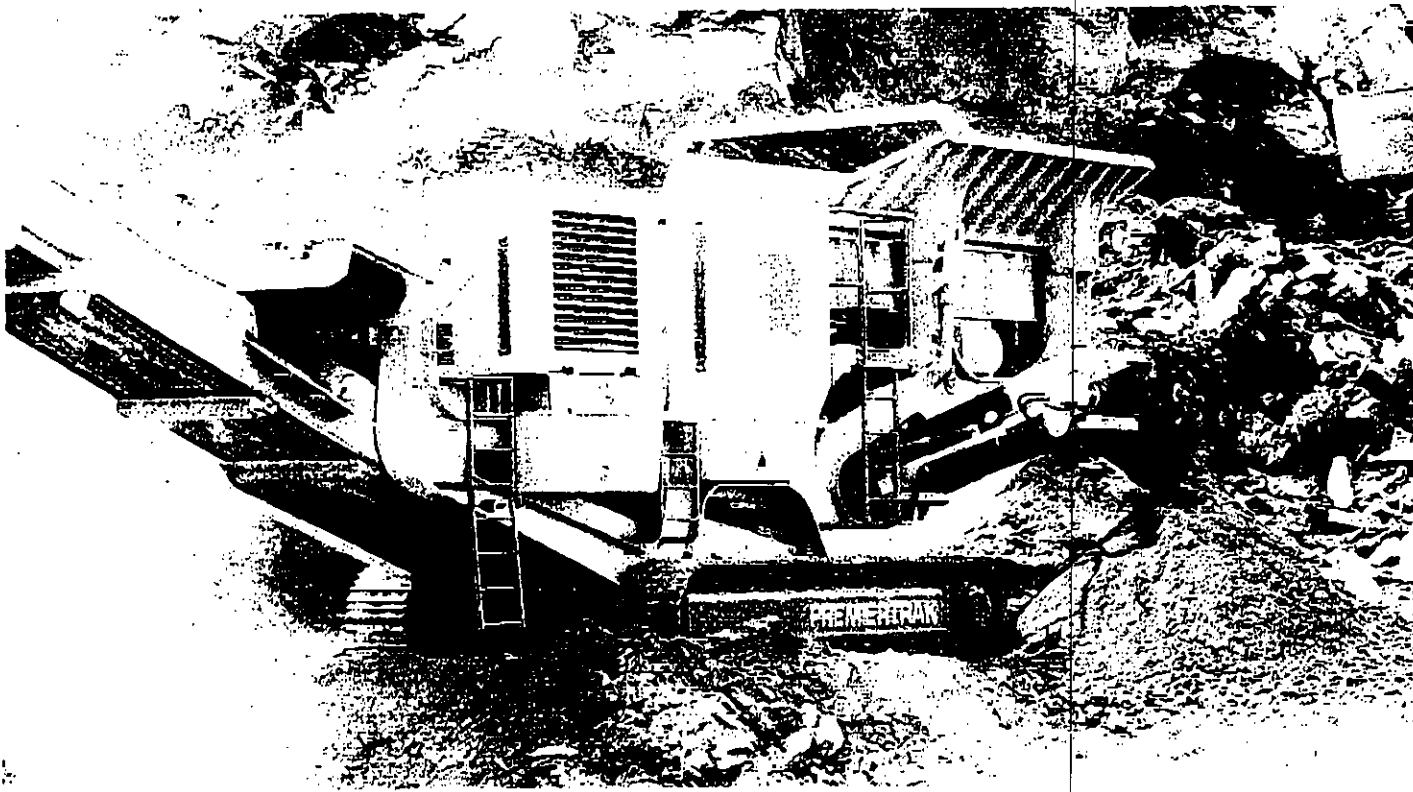


▲ HIGH PRODUCTION CAPACITY

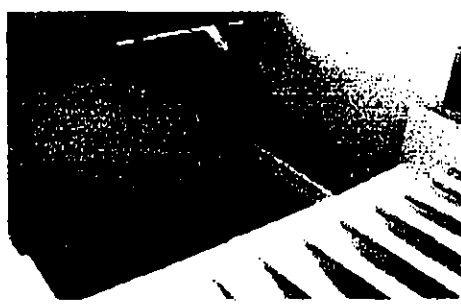
Transport Dimensions

Length: 46'7"
 Width: 9'3"
 Height: 11'5"
 Weight: 49.6 S tons

1165HA PREMIERTRAK



◀ **PLC CONTROLS**
Minimal wiring and Canbus controls include engine load monitor.



◀ **HIGH JAW GUARD**
This assists the entry of large material into the crusher mouth.

Unit Components

- Crusher type: TEREX Pegson single toggle jaw
- Size: 26" x 44"
- Feeder: 3'6" x 14'0"
- Feed Hopper: Hydraulic folding Hardox feed hopper
- Hopper length: 14'10"
- Hopper width: 8'0"
- Capacity: Up to 11.1 yd³
- Powerpack: Caterpillar C-9, 230Hp at 1600rpm at sea level.

Closed Side Setting	Typical Plant Output
Inches	stph
2"*	176*
2 1/2"*	198*
3"	254
4"	320
5"	386

* Recycling only
This crusher has been designed to work with feed materials having a 10% fines value not exceeding 390kW.

DESIGNED TO DELIVER

The 428 Trakpactor is suitable for processing soft to medium strength quarried rock, demolition debris and recyclable materials at up to 400 stph.

It can be used as a primary crusher for well broken feed material or alternatively to give increased reduction by operating as a secondary crusher.

This plant has been designed and built for efficient and cost effective processing, features a multi-stage reduction impactor fitted with hydraulic door opening for quick and easy replacement of wear parts, a heavy-duty vibrating grizzly feeder with underscreen option and a 3'4" wide discharge conveyor. The plant can be fitted with a magnetic overband separator for recycling applications.

A wide selection of optional features are available with this machine and include: dirt conveyor, magnet, radio control, grinding path, a range of wire meshes for the underscreen, a refuelling pump and hydraulic water pump.

Advantages

- ▶ Well proven high performance impact crusher
- ▶ Two aprons and optional grinding path
- ▶ Heavy duty chassis and track frame
- ▶ Rapid set-up time and ease of transportation
- ▶ Two step self-cleaning grizzly
- ▶ Fully skirted product conveyor with heavy duty 'rip stop' belt
- ▶ Dirt conveyor & magnetic separator available as options
- ▶ Dust suppression sprays fitted as standard



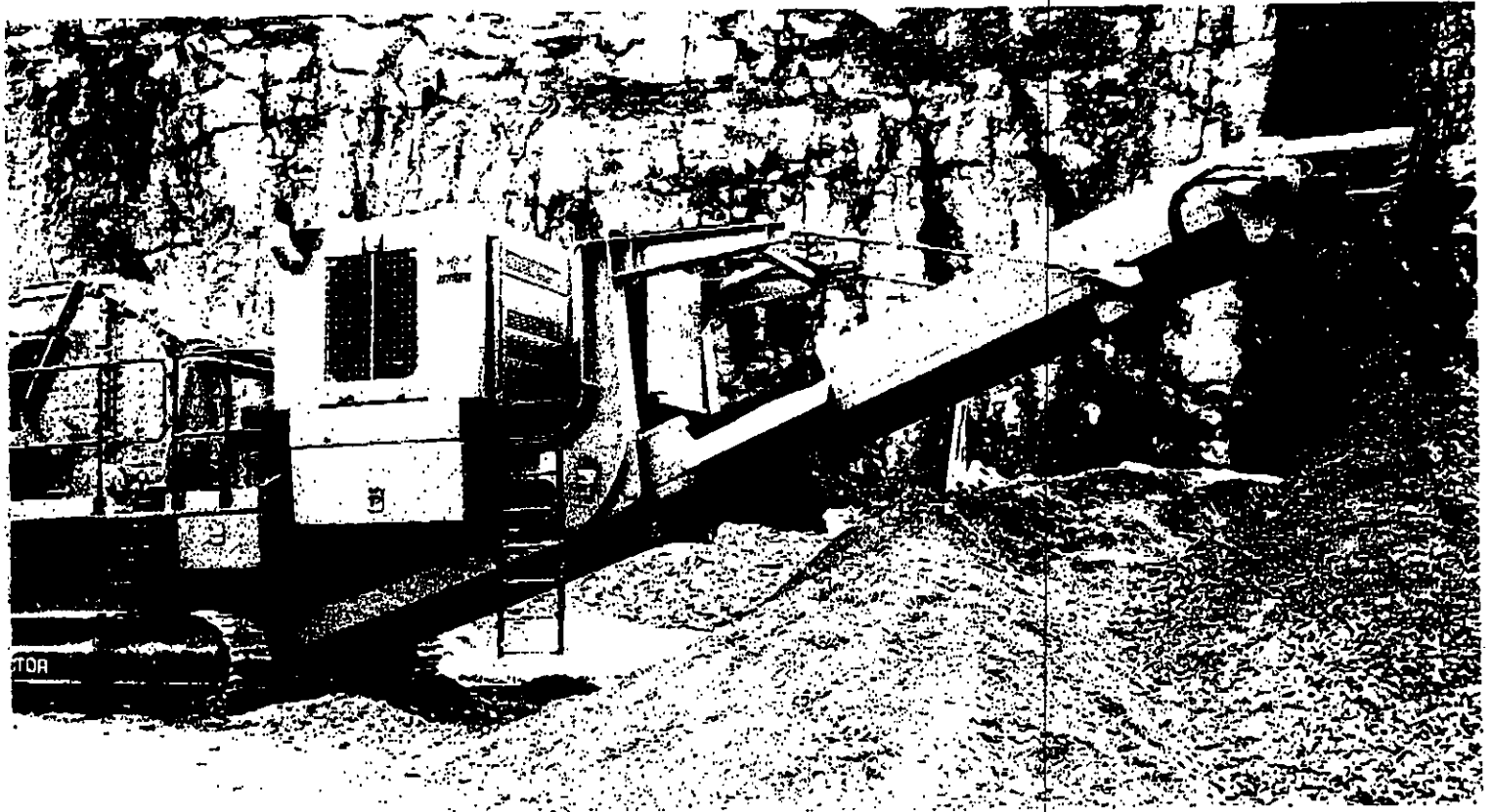
▲ CHAIN CURTAIN
Full width single strand chain curtain.

HYDRAULIC OPENING ▶
Easy access with a separate pump for hydraulic opening.

RADIO REMOTE CONTROL - OPTIONAL ▶

This function is available in approved countries to control the tracking function and stop/start the feeder.





Transport Dimensions

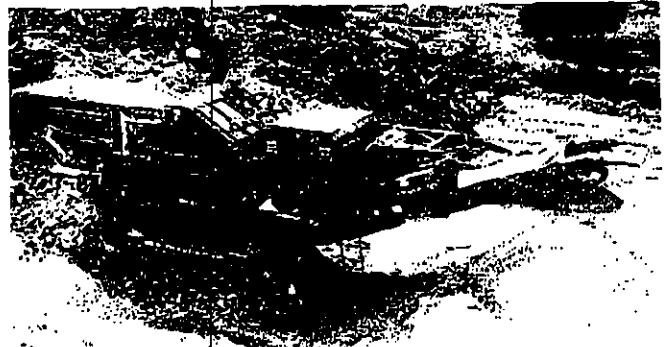
Length: 48'11"
 Width: 9'3"
 Height: 11'3"
 Weight: 35.3 S tons

Technical information for Impactor

Feed Opening: 42" x 28"
 Rotor Diameter: 42"
 Rotor Width: 42"
 Rotor Speed: Slow 506rpm Fast 630rpm
 No. of Hammers: 4

BLOW BARS

Two full size and two half size high manganese blow bars are fitted as standard.



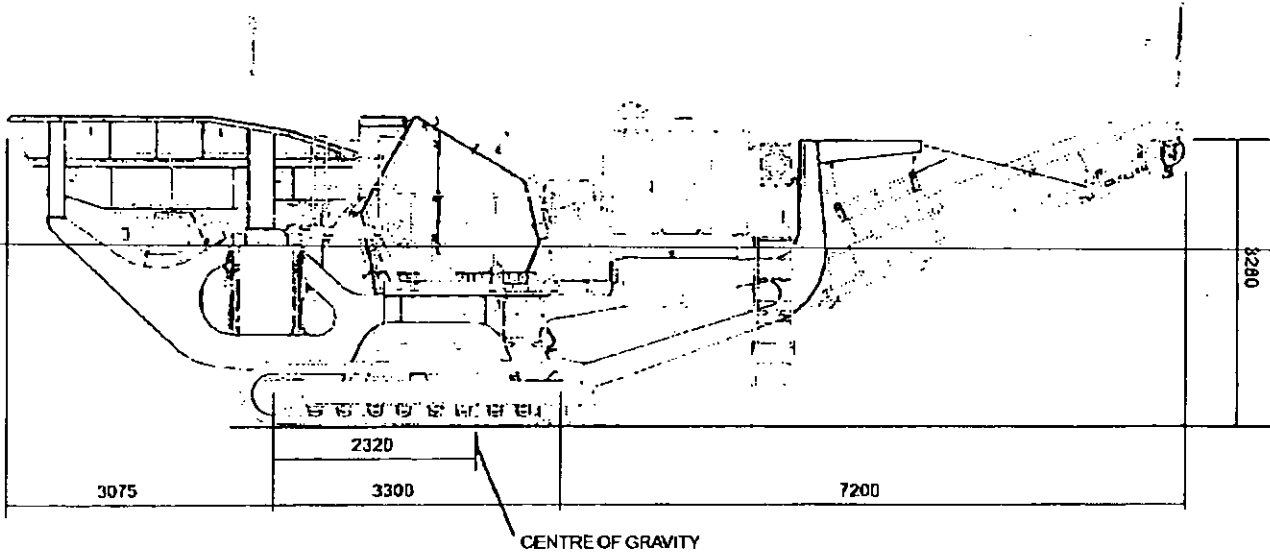
▲ A 428 Trakpactor working on a construction project producing crushed limestone at 400 tonnes per hour.

Unit Components

Crusher type: Terex Pegson 428 Fixed Hammer Impactor

Feeder: 3'7"
 Feed Hopper: Fixed feed hopper
 Hopper length: 13'2"
 Hopper width: 6'11"
 Capacity: Up to 4.97 yd³
 Powerpack: Caterpillar C-9, 300Hp at 1800rpm at sea level

BL-Pegson Limited, Coalville, England. Tel : +44 1530 518600, Fax : +44 1530 518618



2.1 Dimensions

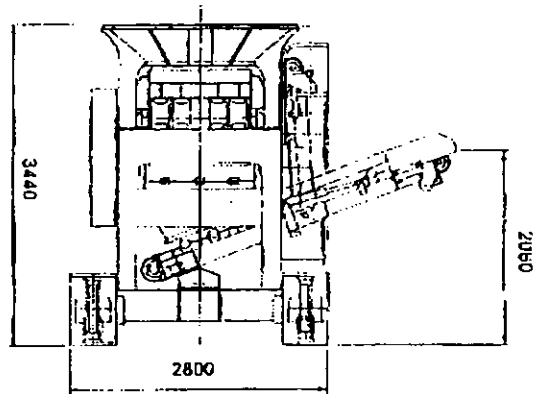
ALL DIMENSIONS ARE IN MILLIMETRES

Overall Height (Excluding Transport Trailer) 3440mm
Engine Air Cleaner removed
NB. Add 230mm for air cleaner if left in situ

Overall Width (Dirt Conveyor Folded) 2800mm

Gross Weight approx. 31 tonnes

Note: Weights and dimensions are for guidance only and appropriate allowances should be applied when being used for transportation purposes.



Viewed from the rear of the Traktractor

Figure 2a Dimensions

BL-PEGSON
A Team Company

Technical Information

Traktractor
428
Issue 01 ENG
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