Foster Supply Inc.

G50-B Registration application

WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF AIR QUALITY
601 57th Street, SE
Charleston, WV 25304
Phone: (304) 926-0475 • www.dep.wv.gov/daq

APPLICATION FOR GENERAL PERMIT REGISTRATION

CONSTRUCT, MODIFY, RELOCATE OR ADMINISTRATIVELY UPDATE A STATIONARY SOURCE OF AIR POLLUTANTS

☐ CONSTRUCTION ☐ MODIFICATION ☐ RELOCATION ☐ CLASS I ADMINISTRATIVE UPDATE ☐ CLASS II ADMINISTRATIVE UPDATE

CHECK WHICH TYPE OF GENERAL PERMIT REGISTRATION YOU ARE APPLYING FOR:

- ☐ **G10-D** – Coal Preparation and Handling
- ☐ **G20-B** – Hot Mix Asphalt
- ☐ **G30-D** – Natural Gas Compressor Stations
- ☐ **G33-A** – Spark Ignition Internal Combustion Engines
- ☐ **G35-A** – Natural Gas Compressor Stations (Flare/Glycol Dehydration Unit)
- ☐ **G40-C** – Nonmetallic Minerals Processing
- ☑ **G50-B** – Concrete Batch
- ☐ **G60-C** - Class II Emergency Generator
- ☐ **G65-C** – Class I Emergency Generator
- ☐ **G70-A** – Class II Oil and Natural Gas Production Facility

SECTION I. GENERAL INFORMATION

1. Name of applicant (as registered with the WV Secretary of State's Office): Foster Supply Inc.

2. Federal Employer ID No. **(FEIN):** 62-1257196

3. Applicant's mailing address: P.O. Box 468 Teas Valley Rd. Scott Depot, WV 25560

4. Applicant's physical address: 6736 Buckhannon Pike, Mt. Clare, WV 26408

5. If applicant is a subsidiary corporation, please provide the name of parent corporation:

6. **WV BUSINESS REGISTRATION.** Is the applicant a resident of the State of West Virginia? ☑ **YES** ☐ **NO**
   - ➪ IF **YES,** provide a copy of the Certificate of **Incorporation/ Organization / Limited Partnership** (one page) including any name change amendments or other Business Registration Certificate as **Attachment A.**
   - ➪ IF **NO,** provide a copy of the **Certificate of Authority / Authority of LLC / Registration** (one page) including any name change amendments or other Business Certificate as **Attachment A.**

SECTION II. FACILITY INFORMATION

7. Type of plant or facility (stationary source) to be constructed, modified, relocated or administratively updated (e.g., coal preparation plant, primary crusher, etc.): Concrete batch Plant

8a. Standard Industrial Classification (SIC) code: 3271 AND 8b. North American Industry System (NAICS) code: 327390

9. DAQ Plant ID No. (for existing facilities only): ___ ___ ___ - ___ ___ ___ ___ ___

10. List all current 45CSR13 and other General Permit numbers associated with this process (for existing facilities only): _____ _____

A: PRIMARY OPERATING SITE INFORMATION

11A. Facility name of primary operating site:	12A. Address of primary operating site:
Foster Supply Mt. Clare location	Mailing: _____ Physical: 6734 Buckhannon pike Mt. Clare, WV 26408

13A. Does the applicant own, lease, have an option to buy, or otherwise have control of the proposed site? ☑ YES ☐ NO

➪ IF **YES**, please explain: Own property

➪ IF **NO**, YOU ARE NOT ELIGIBLE FOR A PERMIT FOR THIS SOURCE.

14A. ➪ For **Modifications or Administrative Updates** at an existing facility, please provide directions to the present location of the facility from the nearest state road;

➪ For Construction or Relocation permits, please provide directions to the proposed new site location from the nearest state road. Include a **MAP** as **Attachment F**.

Travel North on I-79 take exit 115 for WV-20 to Stonewood/Nutter Fort turn right onto WV-20 South. Travel approximately 1.5 mi and Foster Supply will be on the right.

15A. Nearest city or town:	16A. County:	17A. UTM Coordinates:
Mt. Clare	Harrison	Northing (KM): 4338657 Easting (KM): 562 142 Zone: 17S

18A. Briefly describe the proposed new operation or change (s) to the facility:	19A. Latitude & Longitude Coordinates (NAD83, Decimal Degrees to 5 digits):
New plant to produce concrete for internal use	Latitude: 39.195083 Longitude: -80.280362

B: 1ST ALTERNATE OPERATING SITE INFORMATION (only available for G20, G40, & G50 General Permits)

11B. Name of 1st alternate operating site:	12B. Address of 1st alternate operating site:
_____	Mailing: _____ Physical: _____

13B. Does the applicant own, lease, have an option to buy, or otherwise have control of the proposed site? ☐ YES ☐ NO

➪ IF **YES**, please explain: _____

➪ IF **NO**, YOU ARE NOT ELIGIBLE FOR A PERMIT FOR THIS SOURCE.

14B. ➪ For **Modifications or Administrative Updates** at an existing facility, please provide directions to the present location of the facility from the nearest state road;

➪ For Construction or Relocation permits, please provide directions to the proposed new site location from the nearest state road. Include a **MAP** as **Attachment F.**

_____

_____

_____

15B. Nearest city or town:	16B. County:	17B. UTM Coordinates: Northing (KM): _____ Easting (KM): _____ Zone: _____
18B. Briefly describe the proposed new operation or change (s) to the facility:		19B. Latitude & Longitude Coordinates (NAD83, Decimal Degrees to 5 digits): Latitude: _____ Longitude: _____

C: 2ND ALTERNATE OPERATING SITE INFORMATION (only available for G20, G40, & G50 General Permits):

11C. Name of 2nd alternate operating site:	12C. Address of 2nd alternate operating site: **Mailing:**_____ Physical:_____

13C. Does the applicant own, lease, have an option to buy, or otherwise have control of the proposed site? ☐ **YES** ☐ **NO**

➪ IF **YES**, please explain: _____

_____

➪ IF **NO**, YOU ARE NOT ELIGIBLE FOR A PERMIT FOR THIS SOURCE.

14C. ➪ For **Modifications or Administrative Updates** at an existing facility, please provide directions to the present location of the facility from the nearest state road;

➪ For Construction or Relocation permits, please provide directions to the proposed new site location from the nearest state road. Include a **MAP** as **Attachment F.**

_____

_____

_____

15C. Nearest city or town:	16C. County:	17C. UTM Coordinates: Northing (KM): _____ Easting (KM): _____ Zone: _____
18C. Briefly describe the proposed new operation or change (s) to the facility:		19C. Latitude & Longitude Coordinates (NAD83, Decimal Degrees to 5 digits): Latitude: _____ Longitude: _____

20. Provide the date of anticipated installation or change:	21. Date of anticipated Start-up if registration is granted:
8/15/16	9/1/16
☐ If this is an **After-The-Fact** permit application, provide the date upon which the proposed change did happen: : ___/___/___	

22. Provide maximum projected **Operating Schedule** of activity/activities outlined in this application if other than 8760 hours/year. (Note: anything other than 24/7/52 may result in a restriction to the facility's operation).

Hours per day 24 Days per week 7 Weeks per year 52 Percentage of operation 40%

SECTION III. ATTACHMENTS AND SUPPORTING DOCUMENTS

23. Include a check payable to WVDEP – Division of Air Quality with the appropriate **application fee** (per 45CSR22 and 45CSR13).

24. Include a **Table of Contents** as the first page of your application package.

All of the required forms and additional information can be found under the Permitting Section (General Permits) of DAQ's website, or requested by phone.

25. Please check all attachments included with this permit application. Please refer to the appropriate reference document for an explanation of the attachments listed below.

- ☒ ATTACHMENT A : CURRENT BUSINESS CERTIFICATE
- ☒ ATTACHMENT B: PROCESS DESCRIPTION
- ☒ ATTACHMENT C: DESCRIPTION OF FUGITIVE EMISSIONS
- ☒ ATTACHMENT D: PROCESS FLOW DIAGRAM
- ☒ ATTACHMENT E: PLOT PLAN
- ☒ ATTACHMENT F: AREA MAP
- ☒ ATTACHMENT G: EQUIPMENT DATA SHEETS AND REGISTRATION SECTION APPLICABILITY FORM
- ☒ ATTACHMENT H: AIR POLLUTION CONTROL DEVICE SHEETS
- ☒ ATTACHMENT I: EMISSIONS CALCULATIONS
- ☒ ATTACHMENT J: CLASS I LEGAL ADVERTISEMENT
- ☒ ATTACHMENT K: ELECTRONIC SUBMITTAL
- ☒ ATTACHMENT L: GENERAL PERMIT REGISTRATION APPLICATION FEE
- ☐ ATTACHMENT M: SITING CRITERIA WAIVER
- ☒ ATTACHMENT N: MATERIAL SAFETY DATA SHEETS (MSDS)
- ☒ ATTACHMENT O: EMISSIONS SUMMARY SHEETS
- ☒ OTHER SUPPORTING DOCUMENTATION NOT DESCRIBED ABOVE (Equipment Drawings, Aggregation Discussion, etc.)

Please mail an original and two copies of the complete General Permit Registration Application with the signature(s) to the DAQ Permitting Section, at the address shown on the front page of this application. Please DO NOT fax permit applications. For questions regarding applications or West Virginia Air Pollution Rules and Regulations, please refer to the website shown on the front page of the application or call the phone number also provided on the front page of the application.

SECTION IV. CERTIFICATION OF INFORMATION

This General Permit Registration Application shall be signed below by a Responsible Official. A Responsible Official is a President, Vice President, Secretary, Treasurer, General Partner, General Manager, a member of a Board of Directors, or Owner, depending on business structure. A business may certify an Authorized Representative who shall have authority to bind the Corporation, Partnership, Limited Liability Company, Association, Joint Venture or Sole Proprietorship. Required records of daily throughput, hours of operation and maintenance, general correspondence, Emission Inventory, Certified Emission Statement, compliance certifications and all required notifications must be signed by a Responsible Official or an Authorized Representative. If a business wishes to certify an Authorized Representative, the official agreement below shall be checked off and the appropriate names and signatures entered. Any administratively incomplete or improperly signed or unsigned Registration Application will be returned to the applicant.

FOR A CORPORATION (domestic or foreign)

☑ I certify that I am a President, Vice President, Secretary, Treasurer or in charge of a principal business function of the corporation

FOR A PARTNERSHIP

☐ I certify that I am a General Partner

FOR A LIMITED LIABILITY COMPANY

☐ I certify that I am a General Partner or General Manager

FOR AN ASSOCIATION

☐ I certify that I am the President or a member of the Board of Directors

FOR A JOINT VENTURE

☐ I certify that I am the President, General Partner or General Manager

FOR A SOLE PROPRIETORSHIP

☐ I certify that I am the Owner and Proprietor

☑ *I hereby certify that* (please print or type) Geoff Foster *is an Authorized Representative and in that capacity shall represent the interest of the business (e.g., Corporation, Partnership, Limited Liability Company, Association Joint Venture or Sole Proprietorship) and may obligate and legally bind the business. If the business changes its Authorized Representative, a Responsible Official shall notify the Director of the Office of Air Quality immediately, and/or,*

I hereby certify that all information contained in this General Permit Registration Application and any supporting documents appended hereto is, to the best of my knowledge, true, accurate and complete, and that all reasonable efforts have been made to provide the most comprehensive information possible

Signature Geoff Foster 6/29/16
(please use blue ink) Responsible Official Date

Name & Title Geoff Foster Operations Manager
(please print or type)

Signature
(please use blue ink) Authorized Representative (if applicable) Date

Applicant's Name Geoff Foster

Phone & Fax (304) 561-4229 (304) 755-8280
Phone Fax

Email Geoff.foster@fostersupply.com

RECEIVED
JUL 19 2016
WV DEP / DIV OF AIR QUALITY

Date of Last Application Revision 10/18/2013

Attachment A

WEST VIRGINIA
STATE TAX DEPARTMENT
BUSINESS REGISTRATION CERTIFICATE

ISSUED TO:
FOSTER SUPPLY INC
4847 TEAYS VALLEY RD
SCOTT DEPOT, WV 25560-9504

BUSINESS REGISTRATION ACCOUNT NUMBER: **1050-2502**

This certificate is issued on: 06/23/2011

This certificate is issued by
the West Virginia State Tax Commissioner
in accordance with Chapter 11, Article 12, of the West Virginia Code

The person or organization identified on this certificate is registered
to conduct business in the State of West Virginia at the location above.

This certificate is not transferrable and must be displayed at the location for which issued.

This certificate shall be permanent until cessation of the business for which the certificate of registration was granted or until it is suspended, revoked or cancelled by the Tax Commissioner.

Change in name or change of location shall be considered a cessation of the business and a new certificate shall be required.

TRAVELING/STREET VENDORS: Must carry a copy of this certificate in every vehicle operated by them.
CONTRACTORS, DRILLING OPERATORS, TIMBER/LOGGING OPERATIONS: Must have a copy of this certificate displayed at every job site within West Virginia.

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Attachment B

Process description

Foster Supply will be installing a new concrete batch plant at our location in Mount Clare, WV. We do not have a plant currently and this would be a new process at this location.

The process will begin with delivery of raw materials from Alcon and Cemex. Alcon will be delivering the #57 stone and the sand. Both sand and stone will be delivered by dump truck (TD) to Foster Supply, and will dump the sand into 3-sided sand enclosure (E3-1) and #57 stone into 3-sided stone enclosure (E3-2). The Cement is also delivered by truck and pumped into cement silo (UL-BH) (35 ton) equipped with a dust collector (WAM, Silo top R03) (dust collector info included).

Once sand and stone are in storage (E3-1 and E3-2) (25 ton capacity) there will be sprinklers used as a dust control method (SW-WS) and to assist in proper moisture control in concrete production. The sand and Stone will be transferred from storage areas (E3-1 and E3-2) by skid steer and will be loaded into weigh Bins which are partially enclosed (TC-PE-1 and TC-PE-2) and sloped to provide a minimized drop height (MD) in order to control dust production.

Sand and Stone are then weighed to proper quantity and drop out bottom of weigh bins onto a conveyor belt dust control device used is a under-pile conveyor (LO-UC). This conveyor travels up to the top of the mixer and discharges into the mixer (conveyor flow rate is 11000 Lbs./ minute. The transfer point at top of conveyor is partially enclosed (PE) with a rubber mat in order to minimize dust. Cement drops into a screw auger and is fully enclosed (TC-FE) in order to prevent cement dust from escaping. The screw auger moves material at 2800 lbs./min. The auger empties into cement weigh batcher, which is fully enclosed (FE) after the proper amount of cement is weighed up it drops into the mixer through a rubber boot that provides a full enclosure to prevent escape of dust (TC-FE)

Once all raw materials are in the mixer, mixer is fully enclosed to prevent escaping dust (FE) water and add mixtures are added and to the sand, stone and cement and mixed according to manufactures instructions until complete. Once complete Concrete is discharged into a hopper, which is the taken to forms by fork truck and emptied into molds.

Attachment C

Fugitive Emissions (Attachment C)

Sand stock pile (E3-1) - Sand will be delivered by dumb truck and stored in a pile with 3-sieded containment until used in batching process. There will be 20-30 tons of sand in the storage at any given time.

Dust control method: Three sided storage with water spray (SW-WS)

#57 Stone stock pile (E3-2) -Stone will be delivered by dump truck and will be stored in a pile with 3-sided containment until used in batching process. There will be 20-30 tons of stone in storage at any given time.

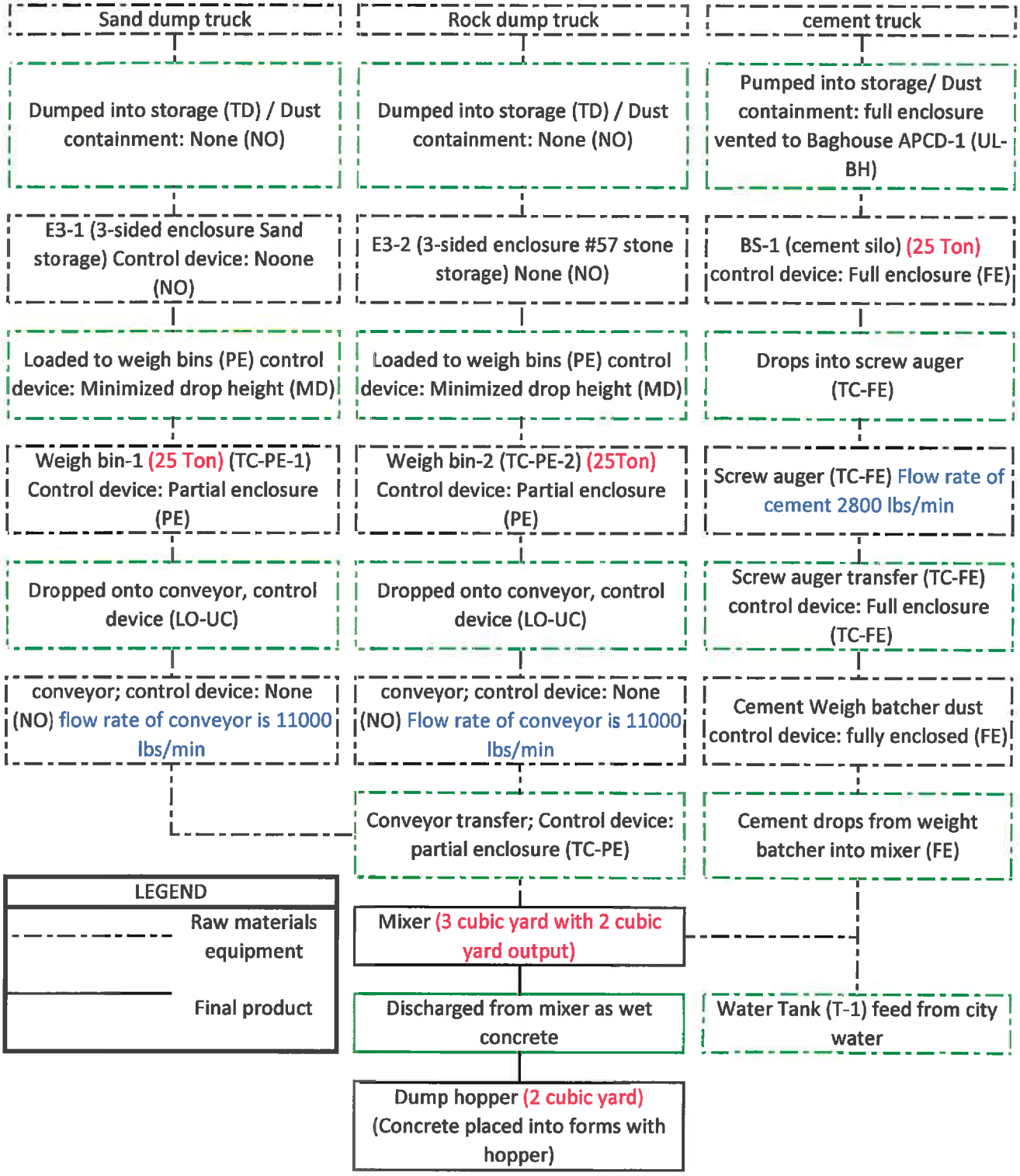
Dust control method: Three sided storage with water spray (SW-WS)

Fork truck and skid steer work areas- There will be multiple trips back and forth over gravel with a fork truck to stock and load retaining wall blocks. There will also be multiple trips back and forth over gravel lot with the skid steer to load the bins with sand and stone.

Dust control method: water spray to keep work areas damp.

Attachment D

Foster Supply (Mount Clare office) Process Flow Diagram



Attachment E & F Included in Back

Attachment G

CBP PRODUCTION AFFECTED SOURCE SHEET

CBP Production Information	Source Identification Number[1]	CM-1	
	Manufacturer & Model Number	Voeller 2YD	
	Date of Manufacture	04/2016	
	Maximum Design Production Rate[2]	7.5 TPH	
	Maximum Annual Production[3]	7800 TPY	
	Daily Operation	4	hours/day
	Annual Operation	260	days/year
		1040	hours/year
	Approximate Percentage of Operation from:	20%	Jan - Mar
		30%	April - June
		30%	July - Sept
		20%	Oct - Dec

1. Enter the appropriate Source Identification Number for each concrete batch plant production weigh hopper or central mixer. Batch plant weigh hopper should be designated WH-1, WH-2, etc. Batch plant central mixer should be designated CM-1, CM-2, etc.

2. Enter the manufacturer's Maximum Design Production Rate of the concrete batch plant production equipment. Specify units in tons/hour.

3. Enter the Maximum Annual Production of the concrete batch plant. Specify units of cubic yards per year or tons per year. To calculate Maximum Annual Production, multiply the Maximum Design Production Rate (tons/hr) by the Annual Operation (hrs/yr).

CBP PRODUCTION AFFECTED SOURCE SHEET

CBP Production Information	Source Identification Number[1]	WH-1	
	Manufacturer & Model Number	Voeller 23T	
	Date of Manufacture	04 / 2016	
	Maximum Design Production Rate[2]	45 TPH	
	Maximum Annual Production[3]	46800 TPY	
	Daily Operation	4	hours/day
	Annual Operation	260	days/year
		1040	hours/year
	Approximate Percentage of Operation from:	20%	Jan - Mar
		30%	April - June
		30%	July - Sept
		20%	Oct - Dec

1. Enter the appropriate Source Identification Number for each concrete batch plant production weigh hopper or central mixer. Batch plant weigh hopper should be designated WH-1, WH-2, etc. Batch plant central mixer should be designated CM-1, CM-2, etc.

2. Enter the manufacturer's Maximum Design Production Rate of the concrete batch plant production equipment. Specify units in tons/hour.

3. Enter the Maximum Annual Production of the concrete batch plant. Specify units of cubic yards per year or tons per year. To calculate Maximum Annual Production, multiply the Maximum Design Production Rate (tons/hr) by the Annual Operation (hrs/yr).

CBP PRODUCTION AFFECTED SOURCE SHEET

CBP Production Information	Source Identification Number[1]	WH-2	
	Manufacturer & Model Number	Voeller 23T	
	Date of Manufacture	04/2011	
	Maximum Design Production Rate[2]	45 TPH	
	Maximum Annual Production[3]	46800 TPY	
	Daily Operation	4	hours/day
	Annual Operation	260	days/year
		1040	hours/year
	Approximate Percentage of Operation from:	20%	Jan - Mar
		30%	April - June
		30%	July - Sept
		20%	Oct - Dec

1. Enter the appropriate Source Identification Number for each concrete batch plant production weigh hopper or central mixer. Batch plant weigh hopper should be designated WH-1, WH-2, etc. Batch plant central mixer should be designated CM-1, CM-2, etc.

2. Enter the manufacturer's Maximum Design Production Rate of the concrete batch plant production equipment. Specify units in tons/hour.

3. Enter the Maximum Annual Production of the concrete batch plant. Specify units of cubic yards per year or tons per year. To calculate Maximum Annual Production, multiply the Maximum Design Production Rate (tons/hr) by the Annual Operation (hrs/yr).

CBP MATERIAL STORAGE & HANDLING AFFECTED SOURCE SHEET

Source Identification Number[1]	E3-1	E3-2	BS-1			
Material Stored[2]	Sand	#57 stone	cement			
Maximum Yearly Throughput (tons/year)[3]	6300	7700	2700			
Typical Moisture Content (%)[4]	< 5%	< 5%	< 1%			
Average % of Material Passing Through 200 Mesh Sieve[5]	3%	.89%	94%			
Maximum Stockpile Base Area (ft^2)[6]	375	375	Silo			
Maximum Stockpile Height (ft)[7]	12 ft.	12 ft.	Silo			
Maximum Storage Capacity (tons)[8]	50	50	35			
Dust Control Method Applied to Storage[9]	3-Sided storage(E3)	3-Sided Storage(E3)	FE			
Method of Material Load-in to Bin or Stockpile[10]	TD	TD	TD			
Dust Control Method Applied During Load-in[11]	NO	NO	FE			
Method of Material Load-out from Bin or Stockpile[10]	FE	FE	OT			
Dust Control Method Applied During Load-out[11]	MD	MD	FE			

1. Enter the appropriate Source Identification Number for each storage activity using the following codes. For example, if the facility utilizes four open stockpiles and one storage silo, the Source Identification Numbers should be OS-1, OS-2, OS-3, and OS-4; and BS-1, respectively.
   - OS Open Stockpile — E3 Enclosure (three-sided enclosure)
   - BS Bin or Storage Silo (full enclosure) — SB Storage Building (full enclosure)
   - SF Stockpiles with wind fences — OT Other _____ (please specify)
2. Describe the type of material stored or stockpiled.
3. Enter the maximum yearly storage throughput for each storage activity.
4. Enter the average percent moisture content of the stored material.
5. Enter the average percent of material that will pass through a 200 mesh sieve.
6. For stockpiles, enter the maximum stockpile base area.
7. For stockpiles, enter the maximum stockpile height.
8. Enter the maximum storage capacity for each storage activity in tons (e.g. silo capacity, maximum stockpile size, etc.).
9. Enter the dust control method applied to storage activity using the following codes:
   - CA Crusting Agent — WS Water Spray
   - FE Full Enclosure — NO None
   - OT Other _____ (please specify)
10. Enter the method of load-in or load-out to/from stockpiles or bins using the following codes:
    - FE Front Endloader — SS Stationary Conveyor/Stacker
    - ST Stacking Tube — MC Mobile Conveyor/Stacker
    - CS Clamshell — TD Truck Dump
    - OT Other Full Enclosure Auger (please specify)
11. Enter the dust control method applied during load-in or load-out using the following codes:
    - CA Crusting Agent — WS Water Spray
    - FE Full Enclosure — MD Minimize Drop Height
    - ST Stacking Tube — NO None
    - OT Other _____ (please specify)

CBP FUGITIVE DUST CONTROL SYSTEM
AFFECTED SOURCE SHEET

Fugitive Dust Control System Data	Fugitive Dust Control Method [1]	WS
	Design Water Flow Rate (gpm) [2]	20 – 30 gpm
	Chemical Additive [3]	NA
	Water/Additive Mix Ratio [4]	NA
	Amount (gal/yd) [5]	.25 – .5 gal/yd²
	Frequency of Application [6]	twice daily on dry days
	Haulroad Surface [7]	NA
	Work/Storage Area Surface [8]	Coarse gravel
	Haulroad Length [9]	NA
	Number of Vehicles per day [10]	NA
	Number of Wheels per Vehicle [11]	NA
	Weight of Vehicle (tons) [12]	NA

1. Enter the fugitive dust control method(s) using the following codes:
   WT Water Truck — WS Fixed Water Sprays
   UW Underbody Truck Wash — RS Rumble Strips
   OT Other _____ _____ (please specify)
2. Enter the design water flow rate for the water truck or fixed water sprays in gallons per minute.
3. Enter manufacturer and type, specification or grade of chemical additive.
4. Enter the water/chemical additive mix ratio.
5. Enter the amount of water or water/chemical additive mix to be applied to haulroads, storage and work areas in gallons per square yard.
6. Enter the frequency of application of water/chemical additive mix to haulroads, storage and work areas during periods of dry weather.
7. Enter the type of haulroad, work and storage area surface (asphalt pavement, concrete, dirt, coarse gravel, reddog, etc.)
8. Enter the approximate length of haulroad(s) in miles or feet. List appropriate units.
9. Enter the maximum daily vehicle traffic (trucks per day).
10. Enter the maximum number of wheels per vehicle.
11. Enter the mean vehicle weight in tons.
12. Complete a separate HMA Plant Fugitive Dust Control System Data sheet for each fugitive dust control system.

Provide a written description of the concrete batch plant's particulate matter capture system below:

Capture System is a Silo top RO3 particulate matter capture system. The Silo top RO3 is a cylindrical dust collector for venting pneumatically filled silos. The particulate matter is separated from the air by 7 spun bound polyester cartriges and falls back into the silo. The cartriges are made of 8oz. fabric and have a total cartrige area of 264 ft². The unit is self cleaning and does not require the use of a fan because silo is filled pnuematically.

CBP STORAGE TANK AFFECTED SOURCE SHEET

Source Identification Number[1]	Content[2]	Length[3] (ft)	Dia[4] (ft)	Volume[5] (gallons)	Throughput[6] (gal/yr)	Orientation[7]	Liquid Height[8] (ft)
T-1	water	3'-8"	2'	100	16,224	HORZ	2 ft.

1. Enter the appropriate Source Identification Number for each storage tank located at the concrete batch plant. Storage tanks should be designated T-1, T-2, T-3, etc.
2. Enter storage tank content (#2 fuel oil, asphaltic cement, water, etc.)
3. Enter storage tank length in feet.
4. Enter storage tank diameter in feet.
5. Enter storage tank volume in gallons. Storage tank volume may be calculated using the following mathematical relationship: (length of tank) X (area conversion) X (tank diameter)^2 X (liquid volume conversion) or, (L_{tank} ft) X (3.14/4) X (d^2_{tank} ft^2) X (7.48 gallons/ft^3)
6. Enter storage tank throughput in gallons per year.
7. Enter storage tank orientation using the following codes:
   VERT Vertical Tank HORZ Horizontal Tank
8. Enter storage tank average liquid height in feet.
9. Storage tank emissions may be calculated using TANKS emission calculation program.

Attachment H

CBP PARTICULATE MATTER CAPTURE SYSTEM AFFECTED SOURCE SHEET

Pursuant to Section 2.2.4 of General Permit G50-B, the registrant shall not cause, suffer, allow, or permit any registered concrete batch plant to operate that is not equipped with an effective particulate matter capture system(s) and associated air pollution control device(s) to minimize the emission of particulate matter from production equipment, storage structures and silos. The particulate matter capture system shall ensure the lowest fugitive particulate emissions reasonably achievable.

A particulate matter capture system shall be used to confine, collect, and transport displaced particulate matter from production weigh hoppers, cement and flyash storage structures and/or silos to an air pollution control device. Particulate matter capture systems may include but not be limited to: hoods, bins, ductwork, enclosures and air pollution control devices such as fabric filter baghouses, associated fans, discharge socks and filter vents.

Provide a written description of the concrete batch plant's particulate matter capture system below:

Foster Supply purchased a cement Silo (35 ton) with attached Wam, Silo top R03 particulate matter capture system. The Silo top R03 is a cylindrical dust collector for venting pneumatically filled silos. The particulate matter is separated from the air by 7 spun bound polyester cartridges and falls back into the silo. The cartridges are made of 8 oz fabric and have a total cartridge area of 264 ft^2. The unit is self cleaning and does not require the use of a fan because silo is filled pneumatically.

AIR POLLUTION CONTROL DEVICE AFFECTED SOURCE SHEET

CBP Air Pollution Control Device Data Sheet		Fabric Filter Baghouse	Filter Vent	Fabric Filter Discharge Sock
General Information	APCD Identification Number[1]	APCD-1		
	Manufacturer & Model Number	Henry Silo top R03		
	Number of Compartments	7		
	Gas Inlet Area (ft²)	5.23 ft.²		
	Gas Outlet Area (ft²)	1.5 ft.²		
	Fabric Filter Cleaning Mechanism[2]	Reverse Air pulse Jet		
	Total Cloth (fabric) Area (ft²)	264 ft.²		
	Draft Fan HP	NA		
	Outlet Stack Area (ft²)			
Operational Parameters	Minimum Design PD (in H_2O)	3--4		
	Maximum Design PD (in H_2O)	8-9		
	Inlet Gas Flow Rate (ACFM)	350--450		
	Inlet Gas Temperature (°F)	Ambient		
	Inlet Gas Pressure (PSIA)	12-15		
	Inlet Gas Velocity (ft/sec)			
	PM Inlet Rate (grains/scf)	30		
	PM Outlet Rate (grains/scf)	.01		
	Operating Air/Cloth Ratio (ft/min)	6:1		

1. Enter the appropriate Air Pollution Control Device Identification Number for each fabric filter baghouse, filter vent or discharge sock. The devices should be designated APCD-1, APCD-2, APCD-3, etc.
2. Enter method used to clean bags: shaker, pulse jet, reverse jet or other.
3. Complete more than one CBP Air Pollution Control Device Data Sheet if necessary.
4. Enter the fractional efficiency of the fabric filter baghouse.

Attachment I

G50-B Emission Calculation Spreadsheets

For purposes of the General Permit for concrete batch plants, the following emission calculation methods will provide an adequate estimate of facility emissions from point sources and fugitive emission sources. However, where source (facility) specific tests are available, such information is preferable. Other emission factors may be acceptable provided documentation as to accuracy and appropriateness are provided by the applicant.

Completely fill out the following pages with all requested facility specific information.

Applicant Name Foster Supply

Facility Name Mt. Clare

Please print out all pages of the completed spreadsheet and submit with Registration Application.

Revised 06/11/2007

General Permit G50-B Emission Calculation Spreadsheet G50ECALC for Concrete Batch Plants

BATCH DROP/CONTINUOUS DROP OPERATIONS

TRANSFER POINT	TRANSFER RATE TPH	TRANSFER RATE TPY	TYPE OF CONTROL	CONTROL EFFICIENCY	PM lb/hour	PM-10 lb/hour	PM TPY	PM-10 TPY
AGGREGATE TRANSFER EMISSIONS								
e=	0.0069 lb/ton (PM emission factor)			e=	0.0033 lb/ton (PM-10 emission factor)			
Dump truck to stockpile	7400	7700	NO	0	51.0600	24.4200	0.0266	0.0127
loader to stockpile	0	0	0	0	0.0000	0.0000	0.0000	0.0000
loader to feed hopper	7400	7700	MD		51.0600	24.4200	0.0266	0.0127
hopper to conveyor	7400	7700	LO-UC	80	10.2120	4.8840	0.0053	0.0025
conveyor to bin	0	0	0	0	0.0000	0.0000	0.0000	0.0000
bin to scale hopper	0	0	0	0	0.0000	0.0000	0.0000	0.0000
conveyor to mixer	7400	7700	TC-PE	50	25.5300	12.2100	0.0133	0.0064
TOTAL AGGREGATE TRANSFER EMISSIONS					137.8620	65.9340	0.0717	0.0343
SAND TRANSFER EMISSIONS								
e=	0.0021 lb/ton (PM emission factor)			e=	0.0010 lb/ton (PM-10 emission factor)			
Dump truck to stockpile	6057	6300	NO	0	41.7933	19.9881	0.0217	0.0104
loader to stockpile	0	0	0	0	0.0000	0.0000	0.0000	0.0000
loader to feed hopper	6057	6057	MD		41.7933	19.9881	0.0209	0.0100
hopper to conveyor	6057	6057	LO-UC	80	8.3587	3.9976	0.0042	0.0020
conveyor to bin	0	0	0	0	0.0000	0.0000	0.0000	0.0000
bin to scale hopper	0	0	0	0	0.0000	0.0000	0.0000	0.0000
conveyor to mixer	6057	6057	TC-PE	50	20.8967	9.9941	0.0104	0.0050
TOTAL SAND TRANSFER EMISSIONS					112.8419	53.9679	0.0573	0.0274

BATCH DROP/CONTINUOUS DROP OPERATIONS

TRANSFER POINT	TRANSFER RATE TPH	TRANSFER RATE TPY	TYPE OF CONTROL	CONTROL EFFICIENCY	PM lb/hour	PM-10 lb/hour	PM TPY	PM-10 TPY
CEMENT UNLOADING TO ELEVATED STORAGE SILO (PNEUMATIC)								
e=	0.7200 lb/ton (PM emission factor)			e=	0.4600 lb/ton (PM-10 emission factor)			
truck to cement silo	2600	2700	UL-BH	99	18.7200	11.9600	0.0097	0.0062
CEMENT SUPPLEMENT UNLOADING TO ELEVATED STORAGE SILO (PNEUMATIC)								
e=	3.1400 lb/ton (PM emission factor)			e=	1.1000 lb/ton (PM-10 emission factor)			
truck to cement silo	0	0	0	0	0.0000	0.0000	0.0000	0.0000
WEIGH HOPPER LOADING								
e=	0.0051 lb/ton (PM emission factor)			e=	0.0024 lb/ton (PM-10 emission factor)			
silo to cement weigh bin	2600	2700	TC-FE	80	374.4000	239.2000	0.1944	0.1242
MIXER LOADING (CENTRAL MIX)								
e=	0.5440 lb/ton (PM emission factor)			e=	0.1340 lb/ton (PM-10 emission factor)			
cement weigh bin to truck	2600	2700	TC-FE	80	374.4000	239.2000	0.1944	0.1242
TRUCK LOADING (TRUCK MIX)								
e=	0.9950 lb/ton (PM emission factor)			e=	0.2780 lb/ton (PM-10 emission factor)			
cement weigh bin to truck	0	0	0	0	0.0000	0.0000	0.0000	0.0000
TOTAL CEMENT TRANSFER EMISSIONS					767.5200	490.3600	0.3985	0.2546
TOTAL TRANSFER EMISSIONS					**1,018.2239**	**610.2619**	**0.5275**	**0.3163**

UNPAVED HAULROADS - Aggregate Truck Sand & gravel

PM EMISSIONS			PM-10 EMISSIONS		
k	4.9	particle size multiplier (assumed)	k	1.5	particle size multiplier (assumed)
s	10	silt in road surface (%)	s	10	silt in road surface (%)
a	0.7	equation constant	a	0.9	equation constant
b	0.45	equation constant	b	0.45	equation constant
S		mean vehicle speed (mph)	S		mean vehicle speed (mph)
W		mean vehicle weight (tons)	W		mean vehicle weight (tons)
w		mean number of wheels	w		mean number of wheels
p	150	days of precipitation (assumed)	p	150	days of precipitation (assumed)
e	0.0000	LB/VMT	e	0.0000	LB/VMT
TRAVEL		VMT/HOUR	TRAVEL		VMT/HOUR
TRAVEL		VMT/YR	TRAVEL		VMT/YR
CONTROLS		control efficiency (%)	CONTROLS		control efficiency (%)
EMISSIONS	**0.0000**	**lb/hour**	**EMISSIONS**	**0.0000**	**lb/hour**
EMISSIONS	**0.0000**	**TPY**	**EMISSIONS**	**0.0000**	**TPY**

PAVED HAULROADS - Aggregate Trucks Sand & gravel

PM EMISSIONS			PM-10 EMISSIONS		
k	0.082	base emission factor for particle	k	0.016	particle size multiplier (assumed)
sL	70	road surface silt load. (g/m^2)	s	70	silt in road surface (%)
W		mean vehicle weight (tons)	W		mean vehicle weight (tons)
P		# of wet days with at least 0.01" precip	P		# of wet days with at least 0.01" precip
C	0.00047	emission factor for brake/tire wear	C	0.00047	emission factor for brake/tire wear
N	365	# of days in averaging period	N	365	# of days in averaging period
e	-0.0005	LB/VMT	e	-0.0005	LB/VMT
TRAVEL		VMT/HOUR	TRAVEL		VMT/HOUR
TRAVEL		VMT/YR	TRAVEL		VMT/YR
CONTROLS	0	control efficiency (%)	CONTROLS	0	control efficiency (%)
EMISSIONS	**0.0000**	**lb/hour**	**EMISSIONS**	**0.0000**	**lb/hour**
EMISSIONS	**0.0000**	**TPY**	**EMISSIONS**	**0.0000**	**TPY**

UNPAVED HAULROADS - Cement Tanker

PM EMISSIONS			PM-10 EMISSIONS		
k	4.9	particle size multiplier (assumed)	k	1.5	particle size multiplier (assumed)
s	10	silt in road surface (%)	s	10	silt in road surface (%)
a	0.7	equation constant	a	0.9	equation constant
b	0.45	equation constant	b	0.45	equation constant
S		mean vehicle speed (mph)	S		mean vehicle speed (mph)
W		mean vehicle weight (tons)	W		mean vehicle weight (tons)
w		mean number of wheels	w		mean number of wheels
p	150	days of precipitation (assumed)	p	150	days of precipitation (assumed)
e	0.0000	LB/VMT	e	0.0000	LB/VMT
TRAVEL		VMT/HOUR	TRAVEL		VMT/HOUR
TRAVEL		VMT/YR	TRAVEL		VMT/YR
CONTROLS		control efficiency (%)	CONTROLS		control efficiency (%)
EMISSIONS	**0.0000**	**lb/hour**	**EMISSIONS**	**0.0000**	**lb/hour**
EMISSIONS	**0.0000**	**TPY**	**EMISSIONS**	**0.0000**	**TPY**

PAVED HAULROADS - Cement Tanker

PM EMISSIONS			PM-10 EMISSIONS		
k	0.082	base emission factor for particle	k	0.016	particle size multiplier (assumed)
sL	70	road surface silt load. (g/m^2)	s	70	silt in road surface (%)
W		mean vehicle weight (tons)	W		mean vehicle weight (tons)
P		# of wet days with at least 0.01" precip	P		# of wet days with at least 0.01" precip
C	0.00047	emission factor for brake/tire wear	C	0.00047	emission factor for brake/tire wear
N	365	# of days in averaging period	N	365	# of days in averaging period
e	-0.0005	LB/VMT	e	-0.0005	LB/VMT
TRAVEL		VMT/HOUR	TRAVEL		VMT/HOUR
TRAVEL		VMT/YR	TRAVEL		VMT/YR
CONTROLS	0	control efficiency (%)	CONTROLS	0	control efficiency (%)
EMISSIONS	**0.0000**	**lb/hour**	**EMISSIONS**	**0.0000**	**lb/hour**
EMISSIONS	**0.0000**	**TPY**	**EMISSIONS**	**0.0000**	**TPY**

UNPAVED HAULROADS - Concrete Mixer

PM EMISSIONS			PM-10 EMISSIONS		
k	4.9	particle size multiplier (assumed)	k	1.5	particle size multiplier (assumed)
s	10	silt in road surface (%)	s	10	silt in road surface (%)
a	0.7	equation constant	a	0.9	equation constant
b	0.45	equation constant	b	0.45	equation constant
S		mean vehicle speed (mph)	S		mean vehicle speed (mph)
W		mean vehicle weight (tons)	W		mean vehicle weight (tons)
w		mean number of wheels	w		mean number of wheels
p	150	days of precipitation (assumed)	p	150	days of precipitation (assumed)
e	0.0000	LB/VMT	e	0.0000	LB/VMT
TRAVEL		VMT/HOUR	TRAVEL		VMT/HOUR
TRAVEL		VMT/YR	TRAVEL		VMT/YR
CONTROLS		control efficiency (%)	CONTROLS		control efficiency (%)
EMISSIONS	**0.0000**	**lb/hour**	**EMISSIONS**	**0.0000**	**lb/hour**
EMISSIONS	**0.0000**	**TPY**	**EMISSIONS**	**0.0000**	**TPY**

PAVED HAULROADS - Concrete Mixer

PM EMISSIONS			PM-10 EMISSIONS		
k	0.082	base emission factor for particle	k	0.016	particle size multiplier (assumed)
sL	70	road surface silt load. (g/m^2)	s	70	silt in road surface (%)
W		mean vehicle weight (tons)	W		mean vehicle weight (tons)
P		# of wet days with at least 0.01" precip	P		# of wet days with at least 0.01" precip
C	0.00047	emission factor for brake/tire wear	C	0.00047	emission factor for brake/tire wear
N	365	# of days in averaging period	N	365	# of days in averaging period
e	-0.0005	LB/VMT	e	-0.0005	LB/VMT
TRAVEL		VMT/HOUR	TRAVEL		VMT/HOUR
TRAVEL		VMT/YR	TRAVEL		VMT/YR
CONTROLS	0	control efficiency (%)	CONTROLS	0	control efficiency (%)
EMISSIONS	**0.0000**	**lb/hour**	**EMISSIONS**	**0.0000**	**lb/hour**
EMISSIONS	**0.0000**	**TPY**	**EMISSIONS**	**0.0000**	**TPY**

UNPAVED HAULROADS- Endloader

PM EMISSIONS			PM-10 EMISSIONS		
k	4.9	particle size multiplier (assumed)	k	1.5	particle size multiplier (assumed)
s	10	silt in road surface (%)	s	10	silt in road surface (%)
a	0.7	equation constant	a	0.9	equation constant
b	0.45	equation constant	b	0.45	equation constant
S	15	mean vehicle speed (mph)	S	15	mean vehicle speed (mph)
W	9000	mean vehicle weight (tons)	W	9000	mean vehicle weight (tons)
w	4	mean number of wheels	w	4	mean number of wheels
p	150	days of precipitation (assumed)	p	150	days of precipitation (assumed)
e	158.2974	LB/VMT	e	46.7232	LB/VMT
TRAVEL	0.4000	VMT/HOUR	TRAVEL	0.4000	VMT/HOUR
TRAVEL	104.0000	VMT/YR	TRAVEL	104.0000	VMT/YR
CONTROLS	0	control efficiency (%)	CONTROLS	0	control efficiency (%)
EMISSIONS	**63.3190**	**lb/hour**	**EMISSIONS**	**18.6893**	**lb/hour**
EMISSIONS	**8.2315**	**TPY**	**EMISSIONS**	**2.4296**	**TPY**

STORAGE PILE- Sand

PM EMISSIONS			PM-10 EMISSIONS		
s	30	silt content (%)	s	30	silt content (%)
p	150	days of precipitation (assumed)	p	150	days of precipitation (assumed)
f	25	time the wind exceeds 12 mph (%)	f	25	time the wind exceeds 12 mph (%)
A	0.0086	surface area (acres)	A	0.0086	surface area (acres)
N	1	number of storage piles	N	1	number of storage piles
CONTROLS	0	%	CONTROLS	0	%
EMISSIONS	**0.0186**	**lb/hour**	**EMISSIONS**	**0.0087**	**lb/hour**
EMISSIONS	**0.0814**	**TPY**	**EMISSIONS**	**0.0382**	**TPY**

STORAGE PILE- Aggregate

PM EMISSIONS			PM-10 EMISSIONS		
s	10	silt content (%)	s	10	silt content (%)
p	150	days of precipitation (assumed)	p	150	days of precipitation (assumed)
f	25	time the wind exceeds 12 mph (%)	f	25	time the wind exceeds 12 mph (%)
A	0.0086	surface area (acres)	A	0.0086	surface area (acres)
N	1	number of storage piles	N	1	number of storage piles
CONTROLS	0	%	CONTROLS	0	%
EMISSIONS	**0.0062**	**lb/hour**	**EMISSIONS**	**0.0029**	**lb/hour**
EMISSIONS	**0.0271**	**TPY**	**EMISSIONS**	**0.0127**	**TPY**

EMISSIONS SOURCE SUMMARY

	PM EMISSIONS		PM-10 EMISSIONS	
Point Source Emissions	**lb/hour**	**TPY**	**lb/hour**	**TPY**
Transfer Point Emissions	1,018.22	0.53	610.26	0.32
Point Source Emissions Total	**1,018.22**	**0.53**	**610.26**	**0.32**
Fugitive Emissions	**lb/hour**	**TPY**	**lb/hour**	**TPY**
Unpaved Haulroad Emissions	63.32	8.23	18.69	2.43
Paved Haulroad Emissions	0.00	0.00	0.00	0.00
Stockpile Emissions	0.02	0.11	0.01	0.05
Fugitive Emissions Total	**63.34**	**8.34**	**18.70**	**2.48**
FACILITY EMISSIONS TOTAL	**1,081.57**	**8.87**	**628.96**	**2.80**

Attachment J

Air Quality Permit Notice

Notice of Application

Notice is given that Foster Supply has applied to West Virginia Department of Environmental Protection, Division of Air Quality, for a G50-B air quality general permit Registration for a concrete plant located on 6736 Buckhannon Pike, Mt Clare, WV. In Harrison county, West Virginia. The latitude and longitude coordinates are: 39.195083 ; -80.280362

The applicant estimates the potential to discharge the following Regulated Air Pollutants will be:

PM Emissions: up to 8.87 tons per year

PM-10 Emissions: up to 2.8 tons per year

Startup of operations is planned to begin on or about the 15th day of August, 2016. Written comments will be received by the West Virginia Department of Environmental Protection, Division of Air Quality, 601 57th St, Se, Charleston, WV 25304, for at least 30 calendar days from the date of this publication.

Any questions regarding this permit applications should be directed to the DAQ at (304) 962-0499 ext. 1250, during normal business hours.

Dated 18th day of July, 2016.

By:

Foster Supply Inc.

Geoff Foster

Operations Manager

9374 Teays Valley Rd.

Scott Depot, WV 25560

Geoff Foster

From: legals@theet.com
Sent: Monday, July 18, 2016 1:10 PM
To: Geoff Foster
Subject: Classified Ad# 62231 Confirmation

AIR QUALITY PERMIT NOTICE
NOTICE OF APPLICATION

Notice is given that Foster Supply has applied to West Virginia Department of Environmental Protection, Division of Air Quality, for a G50-B air quality general permit Registration for a concrete plant located on 6736 Buckhannon Pike, Mt Clare, WV, In Harrison county, West Virginia. The latitude and longitude coordinates are: 39.195083 : -80.280362 The applicant estimates the potential to discharge the following Regulated Air Pollutants will be: PM Emissions: up to 8.87 tons per year PM-10 Emissions: up to 2.8 tons per year Startup of operations is planned to begin on or about the 15th day of August, 2016. Written comments will be received by the West Virginia Department of Environmental Protection, Division of Air Quality, 601 57th St, Se, Charleston, WV 25304, for at least 30 calendar days from the date of this publication. Any questions regarding this permit applications should be directed to the DAQ at (304) 962-0499 ext. 1250, during normal business hours. Dated 18th day of July, 2016.

By:
Foster Supply Inc.
Geoff Foster
Operations Manager
9374 Teays Valley Rd.
Scott Depot, WV 25560

Acc.Id:	23148	
Name:	FOSTER SUPPLY	
Phone:	304-326-0195	
Address:		
City:		
State:		
Postcode:		
Class:	999	999 Legal Ads
Edition:	CLE	
Start:	07/19/2016	
Stop:	07/19/2016	
Issues:	1	
Units	4.30	
Order ID:	TC 62231	
TFN:	C	
TFN cycle:		
Rep:	BRITTANY	
Status:	HO	
Source:	EM	
Paytype:	CC	
Rate:	LG	
Cost EXC GST:	33.75	
Tax:	0.00	
Total Charge:	33.75	

Printed on: 07/18/2016 13:09:36
Printed by: BRITTANY

Total Control Panel Login

To: geoff.foster@fostersupply.com Remove this sender from my allow list
From: legals@theet.com

You received this message because the sender is on your allow list.

Geoff Foster

From: classified@theet.com
Sent: Monday, July 18, 2016 2:06 PM
To: Geoff Foster
Subject: Classified Ad# 62231 Confirmation

The Exponent Telegram

P.O. Box 2000
Clarksburg, WV 26302
Phone: 304-626-1420
Fax: 304-622-3629
Classified@theet.com

Advertising Receipt

FOSTER SUPPLY

,

Acct#:23148
Ad#:62231
Phone#:304-326-0195
Date:07/18/2016

Salesperson: Rebecca Langford **Classification: 999 Legal Ads** **Ad Size: 1.0 x 4.30**

Advertisement Information:

Description	Start	Stop	Ins.	Cost/Day	Total
Classified Exponent	07/19/2016	07/19/2016	1	30.75	30.75
Affidavit Fee	-	-	-	-	3.00

Payment Information:

Date:	Order#	Type
07/18/2016	62231	CreditCard

Total Amount: 33.75

Total Payments: 33.75

Amount Due: 0.00

Attention: Thank you for your business.

Ad Copy

AIR QUALITY
PERMIT NOTICE
NOTICE OF APPLICATION

Notice is given that Foster Supply has applied to West Virginia Department of Environmental Protection, Division of Air Quality, for a G50-B air quality general permit Registration for a concrete plant located on 6736 Buckhannon Pike, Mt Clare, WV, In Harrison county, West Virginia. The latitude and longitude coordinates are: 39.195083 ; -80.280362 The applicant estimates the potential to discharge the following Regulated Air Pollutants will be: PM Emissions: up to 8.87 tons per year PM-10 Emissions: up to 2.8 tons per year Startup of operations is planned to begin on or about the 15th day of August, 2016. Written comments will be received by the West Virginia Department of Environmental Protection, Division of Air Quality, 601 57th St. Se, Charleston, WV 25304, for at least 30 calendar days from the date of this publication. Any questions regarding this permit applications should be directed to the DAQ at (304) 962-0499 ext. 1250, during normal business hours. Dated 18th day of July, 2016.

:
Foster Supply Inc.
Geoff Foster
Operations Manager
9374 Teays Valley Rd.
Scott Depot, WV 25560

Total Control Panel Login

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Attachment K (located in front)

Attachment N

Safety Data Sheet

Portland Cement

Section 1. Identification

Product identifier:	Portland Cement
Other means of identification:	Cement, hydraulic cement CEMEX Type I CEMEX Type II CEMEX Type I/II CEMEX Type III CEMEX Type II/V CEMEX Type V CEMEX Type IA CEMEX Type I/II Low Alkali CEMEX Type II Low Alkali CEMEX Type III Low Alkali CEMEX Type V Low Alkali CEMEX Type II/V Low Alkali CEMEX Class A CEMEX Class C CEMEX Class H White Cement
Chemical name:	Calcium compounds, calcium silicate compounds, and other calcium compounds containing iron and aluminum make up the majority of this product.
Relevant Uses:	Building materials, construction application, a basic ingredient in concrete.
Manufacturers Name:	CEMEX
Address:	929 Gessner Road, Suite 1900 Houston TX, 77024 T Customer Care 1-800-99-CEMEX
Emergency telephone number:	CHEMTREC: 1-800-424-9300

Section 2. Hazards Identification

OSHA/HCS status:	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Category Classification(s):	SKIN CORROSION/IRRITATION - Category 1 EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY/INHALATION - Category 1

GHS label elements:

Hazard pictograms:


GHS05


GHS07


GHS08

Signal word:	Danger
Hazard statements:	Causes severe skin burns and eye damage May cause an allergic skin reaction Causes serious eye damage May cause cancer (Inhalation, Dermal).

Safety Data Sheet

Precautionary Statements:

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Do not breathe dust
Wash clothing, face, hands thoroughly after handling
Contaminated work clothing must not be allowed out of the workplace
Wear eye protection, protective clothing, protective gloves
If swallowed: rinse mouth. Do NOT induce vomiting
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
If inhaled: Remove person to fresh air and keep comfortable for breathing
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If exposed or concerned: Get medical advice/attention
Immediately call a doctor
Specific treatment (see Section 4 on this label)
If skin irritation or rash occurs: Get medical advice/attention
Take off contaminated clothing and wash it before reuse
Wash contaminated clothing before reuse
Dispose of contents/container to comply with local/regional/national regulations

Other Hazards:

Trace amounts of naturally occurring chemicals might be detected during chemical analysis. Trace constituents may include insoluble residue, some of which may be free Quartz (crystalline silica), calcium oxide (Also known as lime or quick lime), magnesium oxide, potassium sulfate, sodium sulfate, chromium compounds, and nickel compounds.

Section 3. Composition / Information on Ingredients

Substance/mixture:

Portland Cement - mixture

Chemical name:

Calcium compounds; calcium silicates and calcium oxides make up the majority of this product – calcium compounds can contain small amounts or iron and aluminum.

Ingredient Name	% Content	CAS number
Portland Cement Clinker	81 - 96	65997-15-1
Gypsum	4 - 9	7778-18-9
Limestone	0 - 5	1317-65-3
Granulated Blast Furnace Slag	0 - 5	65996-69-2
Kiln Bag House Dust	0 – 5	69012-63-1
Lime Kiln Dust	0 – 2	1305-78-8
Quartz (crystalline silica)	0 - 0.1	14808-60-7
Hexavalent chromium*	*	18450-29-9

Any concentration shown as a range is to protect confidentiality or is due to process variation.

*Hexavalent chromium is included due to dermal sensitivity associated with the component.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Section 4. First-Aid Measures

Description of necessary first aid measures:

General:

Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

Eye contact:

Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove

	any contact lenses. Continue to rinse for at least 15 minutes. Chemical burns must be treated promptly by a physician.
Inhalation:	Seek medical help if coughing or other symptoms persist. Inhalation of large amounts of Portland Cement requires immediate medical attention. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If the individual is not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.
Skin contact:	Get medical attention immediately. Heavy exposure to Portland Cement dust, wet concrete or associated water requires prompt attention. Quickly remove contaminated clothing, shoes, and leather goods such as watchbands and belts. Quickly and gently blot or brush away excess Portland Cement. Immediately wash thoroughly with lukewarm, gently flowing water and non-abrasive pH neutral soap. Seek medical attention for rashes, burns, irritation, dermatitis and prolonged unprotected exposures to wet cement, cement mixtures or liquids from wet cement. Burns should be treated as caustic burns.
Ingestion:	Get medical attention immediately. Call a poison center or physician. Have victim rinse mouth thoroughly with water. DO NOT INDUCE VOMITING unless directed to do so by medical personnel. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Have victim drink 60 to 240 mL (2 to 8 oz.) of water. Stop giving water if the exposed person feels sick as vomiting may be dangerous. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

Potential symptoms and effects from acute exposures (delayed or immediate):

Eye contact:	Causes serious eye damage.
Inhalation:	May cause respiratory irritation.
Skin contact:	Causes severe burns. Discomfort or pain cannot be relied upon to alert a person to a serious injury. You may not feel pain or the severity of the burn until hours after the exposure. Chemical burns must be treated promptly by a physician. May cause an allergic skin reaction.
Ingestion:	Not expected to be a significant route of entry. May cause burns to mouth, throat and stomach.

Potential symptoms and effects from over-exposures:

Eye contact:	Adverse symptoms may include the following: pain, watering and redness
Inhalation:	Adverse symptoms may include the following: respiratory tract irritation and coughing
Skin contact:	Adverse symptoms may include the following: pain or irritation, redness and blistering may occur, skin burns, ulceration and necrosis may occur
Ingestion:	Adverse symptoms may include the following: stomach pains

Recommendations for immediate medical attention / treatment:

If large quantities have been Ingested or inhaled:	Seek medical treatment and contact poison treatment specialist immediately.
Notes to physician:	Treat symptomatically.
Protection of first-aiders:	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

Section 5. Fire-fighting Measures

Extinguishing media

Suitable extinguishing media:	Non-flammable. Use an extinguishing agent suitable for the surrounding fire.
Specific hazards arising from the chemical:	No specific fire or explosion hazard.
Hazardous thermal decomposition products:	Decomposition products may include the following materials: carbon dioxide, carbon monoxide, sulfur oxides and metal oxide/oxides products:
Special protective actions for firefighters:	Evacuate area. Fight fire with normal precautions from a reasonable distance. Move containers from fire area if this can be done without risk.
Special protective equipment for fire-fighters:	Positive pressure self-contained breathing apparatus (SCBA) and structural firefighters' protective clothing will provide adequate protection.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

No action shall be taken involving any personal risk or without suitable training. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. For personal protective clothing requirements, please see Section 8.

For non-emergency personnel:	Evacuate area, if necessary. Contact emergency personnel, if needed. Do not breathe dust. Stay upwind.
For emergency responders:	Evacuate surrounding areas if necessary. Keep unnecessary and unprotected personnel from entering. Do not breathe dust. Provide adequate ventilation.
Environmental precautions:	Avoid release to the environment. Contain the spill to avoid the discharge of spilled material into drains, surface waters and/or groundwater. If the spilled material enters any drainage systems, surface waters and/or groundwater, follow all applicable local, state and federal laws and regulations for additional clean-up and/or reporting requirements.

Methods and materials for containment and cleaning up

Small and large spills:	Wear appropriate personal protective equipment as described in Section 8 for cleaning, containing and removing the spill. Minimize generation of dust. For small spills, clean with a vacuum with a filtration system sufficient to remove and prevent recirculation of cement dust (a vacuum equipped with a high-efficiency particulate air (HEPA) filter is recommended). For large spills, use control dust measures and carefully scoop or shovel into clean dry container for later reuse or disposal. DO NOT USE COMPRESSED AIR TO CLEAN SPILLS. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and Storage

Precautions for safe handling

Protective measures:	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure by obtaining and following special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe dust. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate.
Advice on general	Eating, drinking and smoking should be prohibited in areas where this material is handled,

occupational hygiene: stored and processed. Workers should wash hands and face before eating, drinking and smoking.

Conditions for safe storage: Store and handle in accordance with all current regulations and standards. Keep separated from incompatible substances.

Section 8. Exposure Controls / Personal Protection

Occupational Exposure Limits

Ingredient name	Exposure limits
Portland Cement Clinker	ACGIH TLV (United States, 3/2012). TWA: 1 mg/m^3 8 hours. Form: Respirable NIOSH REL (United States, 6/2009). TWA: 5 mg/m^3 10 hours. Form: Respirable TWA: 10 mg/m3 10 hours. Form: Total OSHA PEL (United States, 6/2010). TWA: 5 mg/m^3 8 hours. Form: Respirable TWA: 15 mg/m^3 8 hours. Form: Total
Quartz (crystalline silica)	ACGIH TLV (United States, 3/2012). TWA: 0.025 mg/m^3 8 hours. Form: Respirable NIOSH REL (United States, 6/2009). TWA: 0.05 mg/m^3 8 hours. Form: Respirable OSHA PEL Z-3 (United States, 9/2005). TWA: 10mg/m^3 divided by %SiO2 + 2: Respirable TWA: 30mg/m^3 divided by %SiO2 + 2: Total
Limestone	ACGIH TLV (United States, 3/2012). TWA: 10 mg/m^3 8 hours. Form: Total NIOSH REL (United States, 6/2009). TWA: 5 mg/m^3 10 hours. Form: Respirable TWA: 10 mg/m^3 10 hours. Form: Total Dust OSHA PEL (United States, 6/2010). TWA: 5 mg/m^3 8 hours. Form: Respirable TWA: 15 mg/m^3 8 hours. Form: Total dust
Gypsum	ACGIH TLV (United States, 3/2012) TWA: 10 mg/m^3 8 hours. Form: Respirable NIOSH REL (United States, 6/2009) TWA 5 mg/m^3 8 hours. Form: Respirable TWA 10 mg/m^3 8 hours. Form: Total OSHA PEL Z-1 (United States, 2/2006) TWA 5 mg/m^3 8 hours. Form: Respirable TWA 15 mg/m^3 8 hours. Form: Total
Particulates Not Otherwise Regulated (Total Dust)	ACGIH TLV (United States, 3/2012) TWA: 3 mg/m^3 8 hours. Form: Respirable TWA: 10 mg/m^3 8 hours. Form: Total dust OSHA PEL (United States, 6/2010). TWA: 5mg/m^3 8 hours. Form: Respirable TWA: 15 mg/m^3 8 hours. Form: Total dust

Controls

Appropriate engineering controls: Use only with adequate ventilation. If user operations generate dust, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Hygiene

Wash	Clean water should always be readily available for skin and (emergency) eye washing. Periodically wash areas contacted by Portland Cement with a pH neutral soap and clean, uncontaminated water. If clothing becomes saturated with Portland Cement, garments should be removed and replaced with clean, dry clothing. Remove protective equipment and saturated clothing before entering eating areas.

PPE

Eye/face protection:	To prevent eye contact, wear safety glasses with side shields, safety goggles or face shields when handling dust or wet cement. Wearing contact lenses when working with cement is not recommended.
Hand protection:	Use impervious, waterproof, and alkali-resistant gloves. Do not rely on barrier creams in place of impervious gloves. Do not get Portland Cement inside gloves. Recommended material: Nitrile®
Body protection:	Use impervious, waterproof, abrasion and alkali-resistant boots and protective long-sleeved and long- legged clothing to protect the skin from contact with wet Portland Cement. To reduce foot and ankle exposure, wear impervious boots that are high enough to prevent Portland Cement from getting inside them. Do not get Portland Cement inside boots, shoes, or gloves. Remove clothing and protective equipment that becomes saturated with cement and immediately wash exposed areas of the body.
Other skin protection:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved. Footwear and other gear to protect the skin should be approved by a specialist before handling this product.
Respiratory protection:	Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product, and assigned protection factor of the selected respirator.

Section 9. Physical and Chemical Properties

Physical State:	Solid. [Powder.]	Lower and upper explosive (flammable) limits:	Not applicable.
Color:	Gray or white.	Vapor pressure:	Not applicable.
Odor:	Odorless.	Vapor density:	Not applicable.
Odor threshold:	Not available.	Relative density:	2.7 to 3.15
pH (in water):	12 - 13	Solubility:	Slightly soluble in water.
Melting point:	Not available.	Solubility in water:	0.1 to 1%
Boiling point:	>1000°C (>1832°F)	Partition coefficient: n-octanol/water:	Not applicable.
Flash point:	Not flammable. Not combustible.	Auto-ignition temperature:	Not applicable.
Burning time:	Not available.	Decomposition temperature:	Not available.
Burning rate:	Not available.	SADT:	Not available.
Evaporation rate:	Not applicable.	Viscosity:	Not applicable.

Flammability (solid, gas): Not applicable.

Section 10. Stability and Reactivity

Reactivity: Reacts slowly with water forming hydrated compounds, releasing heat and producing a strong alkaline solution until reaction is substantially complete.

Chemical stability: The product is stable.

Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid: No specific data.

Incompatible materials: Reactive or incompatible with the following materials: oxidizing materials, acids, aluminum and ammonium salt. Portland Cement is highly alkaline and will react with acids to produce a violent, heat-generating reaction. Toxic gases or vapors may be given off depending on the acid involved. Reacts with acids, aluminum metals and ammonium salts. Aluminum powder and other alkali and alkaline earth elements will react in wet mortar or concrete, liberating hydrogen gas. Limestone ignites on contact with fluorine and is incompatible with acids, alum, ammonium salts, and magnesium. Silica reacts violently with powerful oxidizing agents such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, and oxygen difluoride yielding possible fire and/or explosions. Silicates dissolve readily in hydrofluoric acid producing a corrosive gas — silicon tetrafluoride.

Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological Information

Toxicological Effects

Acute toxicity: Portland Cement LD50/LC50 = Not available

Irritation/Corrosion: Skin: May cause serious burns in the presence of moisture.
Eyes: Causes serious eye damage. May cause burns in the presence of moisture.
Respiratory: May cause respiratory tract irritation.

Sensitization: May cause sensitization due to the potential presence of trace amounts of hexavalent chromium.

Mutagenicity: Not classified.

Reproductive toxicity: Not classified.

Teratogenicity: Not classified.

Aspiration hazard: Not classified.

Carcinogenicity Classification:

Ingredient	OSHA	IARC	ACGIH	NTP
Portland Cement Clinker	–	–	A4	–
Quartz (crystalline silica)	–	1	A2	Known to be a human carcinogen.

Specific target organ toxicity (single exposure): Product Not Classified

Ingredient	Category	Route of Exposure	Target Organs
Quartz (crystalline silica)	Category 3	Inhalation	Respiratory tract irritation

Specific target organ toxicity (repeated exposure): Product Not Classified

Ingredient	Category	Route of Exposure	Target Organs
Quartz (crystalline silica)	Category 2	Inhalation	Respiratory tract and kidneys

Routes of exposure - Dermal contact, Eye contact, Inhalation, and Ingestion.

Potential acute health effects:

Eye contact: Causes serious eye damage.
Inhalation: May cause respiratory irritation.
Skin contact: Causes severe burns. May cause an allergic skin reaction.
Ingestion: May cause burns to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics:

Eye contact: Adverse symptoms may include the following: pain, watering, redness
Inhalation: Adverse symptoms may include the following: respiratory tract irritation, coughing
Skin contact: Adverse symptoms may include the following: pain or irritation, redness, blistering may occur, skin burns, ulcerations and necrosis may occur
Ingestion: Adverse symptoms may include the following: stomach pains

Delayed and immediate effects and also chronic effects from short and long term exposure:

Short term exposure
Potential immediate effects: No known significant effects or critical hazards.
Potential delayed effects: No known significant effects or critical hazards.

Long term exposure
Potential immediate effects: No known significant effects or critical hazards.
Potential delayed effects: No known significant effects or critical hazards.

Potential chronic health effects:

General: Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. If sensitized to hexavalent chromium, a severe allergic dermal reaction may occur when subsequently exposed to very low levels.

Carcinogenicity: Quartz (crystalline silica) is considered a hazard by inhalation. IARC has classified Quartz (crystalline silica) as a Group 1 substance, carcinogenic to humans. This classification is based on the findings of laboratory animal studies (inhalation and implantation) and epidemiology studies that were considered sufficient for carcinogenicity. Excessive exposure to Quartz (crystalline silica) can cause silicosis, a non-cancerous lung disease.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

Numerical measures of toxicity: There are no data available - acute toxicity estimates.

Section 12. Ecological

Toxicity

Persistence and degradability: There are no data available.

Bioaccumulation potential: There are no data available.

Mobility in soil: Soil/water partition coefficient (Koc): Not available.

Other adverse effects: No known significant effects or critical hazards.

Ecotoxicity: No recognized unusual toxicity to plants or animals

Section 13. Disposal Considerations

Safety Data Sheet

Disposal methods: Salvage spilled cement material where possible. Uncontaminated cement material may be reused. Dispose of waste material in accordance with local, state and federal laws and regulations.

Section 14. Transport Information

Special precautions for user: Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/ 78 and the IBC Code: Not Regulated.

Transport Parameters	DOT Classification	IMDG	IATA
UN Number	Not Regulated	Not Regulated	Not Regulated
UN Proper Shipping Name	-	-	-
Transport Hazard Class	-	-	-
Packing Group	-	-	-
Environmental Hazard	None	None	None
Additional Information	-	-	-

Section 15. Regulatory Information

Status under USDOL-OSHA Hazard Communication Rule, 29 CFR 1910.1200
This product is considered a "hazardous chemical" under this regulation, and should be part of any hazard communication program.

Status under CERCLA/SUPERFUND 40 CFR 117 and 302
Not listed.

Hazard Category under SARA(Title III), Sections 311 and 312
This product qualifies as a "hazardous substance" with delayed health effects.

Status under SARA (Title III), Section 313
This cement product does not contain Emergency Planning and Community Right to Know (EPCRA") Section 313 chemicals in excess of the applicable de minimis concentration specified in EPCRA Section 313 Section 372.38(a). Trace amounts of naturally occurring chemicals might be detected during chemical analysis.

Status under TSCA (as of May 1997)
The ingredients of this product are listed on the TSCA inventory or are exempt.

Status under the Federal Hazardous Substances Act
This product is a "hazardous substance" subject to statutes promulgated under the subject act.

Status under California Proposition 65
This product contains up to 0.05 percent of chemicals (trace elements) known to the State of California to cause cancer, birth defects or other reproductive harm. California law requires the manufacturer to give the above warning in the absence of definitive testing to prove that the defined risks do not exist.

State Right to Know:
Portland Cement Clinker (65997-15-1)
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Washington - Permissible Exposure Limits - TWAs

Quartz (crystalline silica) (14808-60-7)
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Washington - Permissible Exposure Limits - TWAs

Gypsum (7778-18-9)
U.S. - New Jersey - Right to Know Hazardous Substance List

Limestone (1317-65-3)
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Washington - Permissible Exposure Limits - TWAs

Section 16. Other Information

Approval or Revision History

Date of issue (mm/dd/yyyy):	July 1998
Revision:	April 2011 (Michael Tilton)
Revison:	May 2015 - Revised Section(s) per HCS-GHS

Notice to reader

While the information provided in this safety data sheet is believed to provide a useful summary of the hazards of Portland Cement as it is commonly used, the sheet cannot anticipate and provide all of the information that might be needed in every situation. Inexperienced product users should obtain proper training before using this product. In particular, the data furnished in this sheet do not address hazards that may be posed by other materials mixed with Portland Cement to produce Portland Cement products. Users should review other relevant material safety data sheets before working with this Portland Cement or working on Portland Cement products, for example, Portland Cement concrete.

SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE OR CONCERNING THE ACCURACY OF ANY INFORMATION PROVIDED BY CEMEX, Inc. except that the product shall conform to contracted specifications. The information provided herein was believed by CEMEX to be accurate at the time of preparation or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information to comply with all laws and procedures applicable to the safe handling and use of product and to determine the suitability of the product for its intended use. Buyer's exclusive remedy shall be for damages and no claim of any kind, whether as to product delivered or for non-delivery of product, and whether based on contract, breach of warranty, negligence, or otherwise shall be greater in amount than the purchase price of the quantity of product in respect of which damages are claimed. In no event shall Seller be liable for incidental or consequential damages, whether Buyer's claim is based on contract, breach of warranty, negligence or otherwise. In particular, the data furnished in this sheet do not address hazards that may be posed by other materials mixed with Portland Cement to produce Portland Cement products. Users should review other relevant safety data sheets before working with Portland Cement or working on Portland Cement products, for example, Portland Cement concrete.

Abbreviations

ACGIH — American Conference of Governmental Industrial Hygienists
CAS — Chemical Abstract Service
CERCLA — Comprehensive Emergency Response and Comprehensive Liability Act
CFR — Code of Federal Regulations DOT — Department of Transportation
GHS – Globally Harmonized System Globally Harmonized System
HEPA - High Efficiency Particulate Air
IATA — International Air Transport Association
IARC — International Agency for Research on Cancer
IMDG — International Maritime Dangerous Goods
NIOSH — National Institute of Occupational Safety and Health
NOEC — No Observed Effect Concentration
NTP — National Toxicology Program
OSHA — Occupational Safety and Health Administration
PEL — Permissible Exposure Limit
REL — Recommended Exposure Limit RQ — Reportable Quantity
SARA — Superfund Amendments and Reauthorization Act
SDS — Safety Data Sheet
TLV — Threshold Limit Value
TPQ — Threshold Planning Quantity

TSCA — Toxic Substances Control Act
TWA — Time-Weighted Average
UN — United Nations

RussTech, Inc.
"WE ADD THE DIFFERENCE"

RSA-10
Safety Data Sheet

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND COMPANY INFORMATION

Product Identification

- Trade Name: **RSA-10**
- Product Use: Air Entraining Concrete Admixture
- Restrictions on Use: Intended for industrial and professional users
- CAS#: Mixture

Company Information

- RussTech, Inc.
  11208 Decimal Drive
  Louisville, KY 40299
  502-267-7700
- Prepared by Department of Environmental, Health and Safety

Emergency number – (serviced 24 hours)

- CHEMTREC 800-424-9300

2. HAZARDS IDENTIFICATION

Classification of substance or mixture:

Skin Irritation	Category 2	Skin Irritant
Eye Irritation	Category 2A	Serious Eye Irritant

Label elements: This material requires a hazard warning label in accordance with GHS criteria

Pictogram:

Signal Word: **WARNING**

Hazard statement(s):
H315: Causes skin irritation.
H319: Causes serious eye irritation.

Precautionary statement(s):
P280: Wear protective gloves and eye/face protection.
P264: Wash with plenty of soap & water thoroughly after handling.

Precautionary statements (response):
P302+352: IF ON SKIN: Wash with plenty of water
P332+P313: If skin irritation occurs: Get medical advice
P362: Take off contaminated clothing and wash before reuse

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
P337+P313: If eye irritation persists, get medical advice

Hazards not otherwise classified: Not applicable

Additional classifications:

HMIS Ratings (scale 0 – 4)
Health – 2 Moderate
Fire – 0 Minimal
Reactivity – 0 Minimal

3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

Per 2012 OSHA Hazard Communication Standard 29 CFR 1910.1200

Components:		
Chemical Name:	CAS#:	Content
Sodium Hydroxide 50%	1310-73-2	<1%

4. FIRST AID MEASURES

Inhalation: Move person away from exposure. If having difficulty breathing, administer oxygen. If breathing has stopped, administer artificial respiration and seek medical attention.
Eyes: Flush eyes with water lifting upper and lower lids occasionally for 15 minutes. If irritation persists, seek medical attention.
Skin: Remove contaminated clothing. Wash affected area thoroughly with soap and water. If irritation persists, seek medical attention.
Ingestion: Contact physician or Poison Control Center (PCC) immediately. Do NOT induce vomiting unless instructed to do by physician or PCC.

5. FIREFIGHTING MEASURES

Suitable extinguishing media: Use extinguishing media suitable for surrounding fire
Unsuitable extinguishing media: Water jet
Specific hazards in case of fire: carbon dioxide, carbon monoxide, harmful vapors, nitrogen oxides, fumes/smoke, carbon black
Special protective equipment required for firefighting: Wear self-contained breathing apparatus (SCBA)
Additional information for firefighters: None

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

- Wear appropriate PPE as needed
- Keep unprotected persons away

Environmental precautions:

- Prevent material from entering drains, septic systems, water sources, etc. by the use of dikes, absorbent materials and booms.

Material containment and clean up:

- Contain material with dikes. Vacuum up spilled material or use absorbent media. Remove spilled material to storage for proper disposal. Dispose of in accordance with local, state and federal regulations. Rinse residual stain with water.

7. HANDLING AND STORAGE

Precautions for safe handling: No special handling required if material is used correctly. Avoid aerosol formation and wear proper PPE.
Information about protection against explosions and fires: No special measures required if material is stored and used correctly
Information about safe storage: Protect material from temperatures under 32°F (0°C)
Shelf Life: 18 months

8. EXPOSURE CONTROLS / PERSONAL PROTECTIONS

Additional information about exposure controls: No further data; see section 7
Components with limit values that require monitoring at the workplace: None
PPE (personal protective equipment) and hygienic measures:

- Wear ANSI approved safety glasses or goggles to protect eyes
- Wear latex or rubber gloves to protect skin
- Wash hands thoroughly before breaks and at end of work day

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information:

- Physical state: Liquid
- Color: Dark brown
- Odor: None
- Odor Threshold: Not available

Physical properties:

- pH value (@70°F): 9.00 – 13.00
- Specific gravity (@70°F): 1.000 – 1.050
- Bulk density: Not available
- Boiling point: 212°F / 100°C
- Freezing point/Melting point: 32°F / 0°C
- Decomposition temperature: Not available
- Vapor pressure: Not available
- Vapor density: Not available
- Evaporation rate: Not available
- VOC (w/w): 0%
- Solubility in / Miscibility with water: 100%
- Partition Coefficient (n-octanol/water): Not available
- Auto ignition: Material is not self igniting
- Flash point: Material is non-flammable
- Lower / Upper Flammability Limits: Not applicable
- Viscosity: Not available
- Danger of explosion: material does not present an explosion hazard

10. STABILITY AND REACTIVITY

Material stability: Material is stable and not sensitive to mechanical impact
Possibility of hazardous reactions: None known
Incompatible materials to avoid: None known
Hazardous decomposition products: None expected during normal storage, handling and use

11. TOXICOLOGICAL INFORMATION

Routes for exposure for solids and liquids are ingestion and inhalation, but may include eye and skin contact.
Acute toxicity: This product has not been test for toxicity. Data derived from individual components.

- Dermal: causes skin irritation
- Inhalation: non-toxic by inhalation
- Ingestion: non-toxic after a single ingestion
- Irritation/corrosion: causes serious eye irritation

Chronic toxicity: This product has not been tested for toxicity. Based on the properties of the individual components, the classification criteria are not met.

- Repeated dose: based on available data, the classification criteria are not met
- Genetic: based on available data, the classification criteria are not met
- Carcinogenicity: based on available data, the classification criteria are not met
- Reproductive: based on available data, the classification criteria are not met
- Teratogenicity: based on available data, the classification criteria are not met

12. ECOLOGICAL INFORMATION

Based on available data, potential for environmental toxicity is low; however discharge to the environment should be avoided.
Ecotoxicity: product is unlikely harmful to aquatic life
Persistence and degradability: product expected to degrade in one month or less
Bioaccumulative potential: there is no evidence to suggest bioaccumulation will occur
Mobility in soil: accidental spillage may lead to penetration in the soil and groundwater, however; there is no evidence that this would cause adverse ecological effects

13. DISPOSAL CONSIDERATIONS

In its manufactured form this material is not considered a hazardous waste. Dispose of in accordance with local, state and federal regulations.

14. TRANSPORT INFORMATION

Material is not regulated for transport

15. REGULATORY INFORMATION

- Sara 302 (extremely hazardous materials): not applicable
- Sara 311/312: Acute health hazard
- Sara 313: Not applicable
- TSCA: All components are listed or exempt

16. OTHER INFORMATION

This information is based on our current knowledge and is furnished without warranty, representation, or license of any kind, except that this information is accurate to the best of RussTech's knowledge, or is obtained from sources believed by RussTech to be accurate. No warranty is expressed or implied regarding the accuracy of this information or the results to be obtained from its use thereof. RussTech assumes no responsibility for injuries proximately caused by use of the Material if reasonable safety procedures are not followed as stipulated in this Data Sheet. Additionally, RussTech assumes no responsibility for injuries caused by abnormal use of the Material even if reasonable safety procedures are followed. Buyer assumes the risk in its use of the Material.

RussTech, Inc.
"WE ADD THE DIFFERENCE"

FAST SET 100-HE
Safety Data Sheet

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND COMPANY INFORMATION

Product Identification

- Trade Name: **FAST SET 100-HE**
- Product Use: Accelerating and Water Reducing Concrete Admixture
- Restrictions on Use: Intended for industrial and professional users
- CAS#: Mixture

Company Information

- RussTech, Inc.
  11208 Decimal Drive
  Louisville, KY 40299
  502-267-7700
- Prepared by Department of Environmental, Health and Safety

Emergency number – (serviced 24 hours)

- CHEMTREC 800-424-9300

2. HAZARDS IDENTIFICATION

Classification of substance or mixture:

Skin Irritation	Category 2	Skin Irritant
Eye Irritation	Category 2A	Serious Eye Irritant

Label elements: This material requires a hazard warning label in accordance with GHS criteria

Pictogram:

Signal Word: **WARNING**

Hazard statement(s):
H315: Causes skin irritation.
H319: Causes serious eye irritation.

Precautionary statement(s):
P280: Wear protective gloves and eye/face protection.
P264: Wash with plenty of soap & water thoroughly after handling.

Precautionary statements (response):
P302+352: IF ON SKIN: Wash with plenty of water
P332+P313: If skin irritation occurs: Get medical advice

P362: Take off contaminated clothing and wash before reuse
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
P337+P313: If eye irritation persists, get medical advice

Hazards not otherwise classified: Not applicable

Additional classifications:

HMIS Ratings (scale 0 – 4)
Health – 2 Moderate
Fire – 0 Minimal
Reactivity – 0 Minimal

3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

Per 2012 OSHA Hazard Communication Standard 29 CFR 1910.1200

Components:		
Chemical Name:	CAS#:	Content
Calcium Chloride	10043-524-4	80%

4. FIRST AID MEASURES

Inhalation: Move person away from exposure. If having difficulty breathing, administer oxygen. If breathing has stopped, administer artificial respiration and seek medical attention.
Eyes: Flush eyes with water lifting upper and lower lids occasionally for 15 minutes. If irritation persists, seek medical attention.
Skin: Remove contaminated clothing. Wash affected area thoroughly with soap and water. If irritation persists, seek medical attention.
Ingestion: Contact physician or Poison Control Center (PCC) immediately. Do NOT induce vomiting unless instructed to do by physician or PCC.

5. FIREFIGHTING MEASURES

Suitable extinguishing media: Use extinguishing media suitable for surrounding fire
Unsuitable extinguishing media: Water jet
Specific hazards in case of fire: carbon dioxide, carbon monoxide, harmful vapors, nitrogen oxides, fumes/smoke, carbon black
Special protective equipment required for firefighting: Wear self-contained breathing apparatus (SCBA)
Additional information for firefighters: None

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

- Wear appropriate PPE as needed
- Keep unprotected persons away

Environmental precautions:

- Prevent material from entering drains, septic systems, water sources, etc. by the use of dikes, absorbent materials and booms.

Material containment and clean up:

- Contain material with dikes. Vacuum up spilled material or use absorbent media. Remove spilled material to storage for proper disposal. Dispose of in accordance with local, state and federal regulations. Rinse residual stain with water.

7. HANDLING AND STORAGE

Precautions for safe handling: No special handling required if material is used correctly. Avoid aerosol formation and wear proper PPE.
Information about protection against explosions and fires: No special measures required if material is stored and used correctly
Information about safe storage: Keep container tightly closed when not in use.
Shelf Life: 18 months

8. EXPOSURE CONTROLS / PERSONAL PROTECTIONS

Additional information about exposure controls: No further data; see section 7
Components with limit values that require monitoring at the workplace: None
PPE (personal protective equipment) and hygienic measures:

- Wear ANSI approved safety glasses or goggles to protect eyes
- Wear latex or rubber gloves to protect skin
- Wash hands thoroughly before breaks and at end of work day

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information:

- Physical state: Liquid
- Color: Dark brown
- Odor: None
- Odor Threshold: Not applicable

Physical properties:

- pH value (@70°F): 7.00 – 9.50
- Specific gravity (@70°F): 1.300 – 1.340
- Bulk density: Not available
- Boiling point: 212°F / 100°C
- Freezing point/Melting point: -15°F / -26°C
- Decomposition temperature: Not available
- Vapor pressure: Not available
- Vapor density: Not available
- Evaporation rate: Not available
- VOC (w/w): 0%
- Solubility in / Miscibility with water: 100%
- Partition Coefficient (n-octanol/water): Not available
- Auto ignition: Material is not self igniting
- Flash point: Material is non-flammable
- Lower / Upper Flammability Limits: Not applicable
- Viscosity: Not available

- Danger of explosion: material does not present an explosion hazard

10. STABILITY AND REACTIVITY

Material stability: Material is stable and not sensitive to mechanical impact
Possibility of hazardous reactions: None known
Incompatible materials to avoid: None known
Hazardous decomposition products: None expected during normal storage, handling and use

11. TOXICOLOGICAL INFORMATION

Routes for exposure for solids and liquids are ingestion and inhalation, but may include eye and skin contact.
Acute toxicity: This product has not been test for toxicity. Data derived from individual components.

- Dermal: causes skin irritation
- Inhalation: non-toxic by inhalation
- Ingestion: non-toxic after a single ingestion
- Irritation/corrosion: causes serious eye irritation

Chronic toxicity: This product has not been tested for toxicity. Based on the properties of the individual components, the classification criteria are not met.

- Repeated dose: based on available data, the classification criteria are not met
- Genetic: based on available data, the classification criteria are not met
- Carcinogenicity: based on available data, the classification criteria are not met
- Reproductive: based on available data, the classification criteria are not met
- Teratogenicity: based on available data, the classification criteria are not met

12. ECOLOGICAL INFORMATION

Based on available data, potential for environmental toxicity is low; however discharge to the environment should be avoided.
Ecotoxicity: product is unlikely harmful to aquatic life
Persistence and degradability: product expected to degrade in one month or less
Bioaccumulative potential: there is no evidence to suggest bioaccumulation will occur
Mobility in soil: accidental spillage may lead to penetration in the soil and groundwater, however; there is no evidence that this would cause adverse ecological effects

13. DISPOSAL CONSIDERATIONS

In its manufactured form this material is not considered a hazardous waste. Dispose of in accordance with local, state and federal regulations.

14. TRANSPORT INFORMATION

Material is not regulated for transport

15. REGULATORY INFORMATION

- Sara 302 (extremely hazardous materials): not applicable
- Sara 311/312: Acute health hazard
- Sara 313: Not applicable
- TSCA: All components are listed or exempt

16. OTHER INFORMATION

This information is based on our current knowledge and is furnished without warranty, representation, or license of any kind, except that this information is accurate to the best of RussTech's knowledge, or is obtained from sources believed by RussTech to be accurate. No warranty is expressed or implied regarding the accuracy of this information or the results to be obtained from its use thereof. RussTech assumes no responsibility for injuries proximately caused by use of the Material if reasonable safety procedures are not followed as stipulated in this Data Sheet. Additionally, RussTech assumes no responsibility for injuries caused by abnormal use of the Material even if reasonable safety procedures are followed. Buyer assumes the risk in its use of the Material.

RussTech, Inc.
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LCNC-166
Safety Data Sheet

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND COMPANY INFORMATION

Product Identification

- Trade Name: **LCNC-166**
- Product Use: Non-Chloride Accelerating and Water Reducing Concrete Admixture
- Restrictions on Use: Intended for industrial and professional users
- CAS#: Mixture

Company Information

- RussTech, Inc.
  11208 Decimal Drive
  Louisville, KY 40299
  502-267-7700
- Prepared by Department of Environmental, Health and Safety

Emergency number – (serviced 24 hours)

- CHEMTREC 800-424-9300

2. HAZARDS IDENTIFICATION

Classification of substance or mixture:

Specific Organ Toxicity (single exposure)	Category 3	May cause respiratory irritation
Acute Toxicity (oral)	Category 5	May be harmful if swallowed
Eye Irritation	Category 2A	Causes serious eye irritation
Skin Irritation	Category 2	Causes skin irritation

Label elements: This material requires a hazard warning label in accordance with GHS criteria

Pictogram:

Signal Word: **WARNING**

Hazard statement(s):
H335: May cause respiratory irritation
H303: May be harmful if swallowed
H319: Causes serious eye irritation
H315: Causes skin irritation

Precautionary statement(s):
P280: Wear protective gloves/protective clothing/eye protection/face protection
P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P271: Use only outdoors or in a well ventilated area.
P264: Wash with plenty of water and soap thoroughly after handling
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P312: Call poison center or physician if you feel unwell
P302+P352: IF ON SKIN: Wash with plenty of soap & water
P332+P313: If skin irritation occurs, get medical advice.
P362: Take off contaminated clothing and wash before reuse
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
P337+P313: If eye irritation persists, get medical advice
P403:+P233: Store in a well ventilated place. Keep container tightly closed.
P501: Dispose of contents/container in accordance with local/state/federal regulations.

Hazards not otherwise classified: Not applicable

Additional classifications:

HMIS Ratings (scale 0 – 4)
Health – 1 Slight
Fire – 0 Minimal
Reactivity – 0 Minimal

3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

Per 2012 OSHA Hazard Communication Standard 29 CFR 1910.1200

Components:		
Chemical Name:	CAS#:	Content
Calcium Nitrate 70%	13477-34-4	60- 70%
Sodium Thiocyanate 50%	54-72-7	8 – 10%

4. FIRST AID MEASURES

Inhalation: Move person away from exposure. If having difficulty breathing, administer oxygen. If breathing has stopped, administer artificial respiration and seek medical attention.
Eyes: Flush eyes with water lifting upper and lower lids occasionally for 15 minutes. Seek medical attention.
Skin: Remove contaminated clothing. Wash affected area thoroughly with soap and water. If irritation persists, seek medical attention.
Ingestion: Contact physician or Poison Control Center (PCC) immediately. Do NOT induce vomiting unless instructed to do by physician or PCC.

5. FIREFIGHTING MEASURES

Suitable extinguishing media: Use extinguishing media suitable for surrounding fire
Unsuitable extinguishing media: Water jet
Specific hazards in case of fire: carbon dioxide, carbon monoxide, harmful vapors, nitrogen oxides, fumes/smoke, carbon black
Special protective equipment required for firefighting: Wear self-contained breathing apparatus (SCBA)
Additional information for firefighters: None

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

- Wear appropriate PPE as needed
- Keep unprotected persons away

Environmental precautions:

- Prevent material from entering drains, septic systems, water sources, etc. by the use of dikes, absorbent materials and booms.

Material containment and clean up:

- Contain material with dikes. Vacuum up spilled material or use absorbent media. Remove spilled material to storage for proper disposal. Dispose of in accordance with local, state and federal regulations. Rinse residual stain with water.

7. HANDLING AND STORAGE

Precautions for safe handling: No special handling required if material is used correctly. Avoid aerosol formation and wear proper PPE.
Information about protection against explosions and fires: No special measures required if material is stored and used correctly
Information about safe storage: Protect material from temperatures under 32°F (0°C)
Shelf Life: 18 months

8. EXPOSURE CONTROLS / PERSONAL PROTECTIONS

Additional information about exposure controls: No further data; see section 7
Components with limit values that require monitoring at the workplace: None
PPE (personal protective equipment) and hygienic measures:

- Wear ANSI approved safety glasses or goggles to protect eyes
- Wear latex or rubber gloves to protect skin
- Wash hands thoroughly before breaks and at end of work day

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information:

- Physical state: Liquid
- Color: Dark brown
- Odor: Pungent
- Odor Threshold: Not available

Physical properties:

- pH value (@70°F): 3.00 – 7.00
- Specific gravity (@70°F): 1.350 – 1.440
- Bulk density: Not available
- Boiling point: 212°F / 100°C
- Freezing point/Melting point: 32°F / 0°C
- Decomposition temperature: Not available
- Vapor pressure: Not available
- Vapor density: Not available
- Evaporation rate: Not available
- VOC (w/w): 0%

- Solubility in / Miscibility with water: 100%
- Partition Coefficient (n-octanol/water): Not available
- Auto ignition: Material is not self igniting
- Flash point: Material is non-flammable
- Lower / Upper Flammability Limits: Not applicable
- Viscosity: Not available
- Danger of explosion: material does not present an explosion hazard

10. STABILITY AND REACTIVITY

Material stability: Material is stable and not sensitive to mechanical impact
Possibility of hazardous reactions: None known with proper use and storage
Incompatible materials to avoid: Strong acids, strong bases, strong oxidizing agents
Hazardous decomposition products: None expected during normal storage, handling and use

11. TOXICOLOGICAL INFORMATION

Routes for exposure for solids and liquids are ingestion and inhalation, but may include eye and skin contact.
Acute toxicity: This product has not been test for toxicity. Data derived from individual components.

- Dermal: causes skin irritation
- Inhalation: may cause respiratory irritation
- Ingestion: may be harmful if swallowed
- Irritation/corrosion: causes serious eye irritation

Chronic toxicity: This product has not been tested for toxicity. Based on the properties of the individual components, the classification criteria are not met.

- Repeated dose: based on available data, the classification criteria are not met
- Genetic: based on available data, the classification criteria are not met
- Carcinogenicity: based on available data, the classification criteria are not met
- Reproductive: based on available data, the classification criteria are not met
- Teratogenicity: based on available data, the classification criteria are not met

12. ECOLOGICAL INFORMATION

Based on available data, potential for environmental toxicity is low; however discharge to the environment should be avoided.
Ecotoxicity: product is unlikely harmful to aquatic life
Persistence and degradability: product expected to degrade in one month or less
Bioaccumulative potential: there is no evidence to suggest bioaccumulation will occur
Mobility in soil: accidental spillage may lead to penetration in the soil and groundwater, however; there is no evidence that this would cause adverse ecological effects

13. DISPOSAL CONSIDERATIONS

In its manufactured form this material is not considered a hazardous waste. Dispose of in accordance with local, state and federal regulations.

14. TRANSPORT INFORMATION

Material is not regulated for transport

15. REGULATORY INFORMATION

- Sara 302 (extremely hazardous materials): not applicable
- Sara 311/312: Acute health hazard
- Sara 313: Not applicable
- TSCA: All components are listed or exempt

16. OTHER INFORMATION

This information is based on our current knowledge and is furnished without warranty, representation, or license of any kind, except that this information is accurate to the best of RussTech's knowledge, or is obtained from sources believed by RussTech to be accurate. No warranty is expressed or implied regarding the accuracy of this information or the results to be obtained from its use thereof. RussTech assumes no responsibility for injuries proximately caused by use of the Material if reasonable safety procedures are not followed as stipulated in this Data Sheet. Additionally, RussTech assumes no responsibility for injuries caused by abnormal use of the Material even if reasonable safety procedures are followed. Buyer assumes the risk in its use of the Material.

RussTech, Inc.
"WE ADD THE DIFFERENCE"

SUPERFLO 2000 SCC
Safety Data Sheet

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND COMPANY INFORMATION

Product Identification

- Trade Name: **SUPERFLO 2000 SCC**
- Product Use: Multi Range Water Reducing Concrete Admixture
- Restriction on Use: Intended for industrial and professional users
- CAS#: Mixture

Company Information

- RussTech, Inc.
  11208 Decimal Drive
  Louisville, KY 40299
  502-267-7700
- Prepared by Department of Environmental, Health and Safety

Emergency number – (serviced 24 hours)

- CHEMTREC 800-424-9300

2. HAZARDS IDENTIFICATION

Classification of substance or mixture: Not classified as hazardous per 2012 OSHA Hazard Classification Standard 29 CFR Part 1910.1200

Label elements: This material does not require a hazard warning label in accordance with GHS criteria

Pictogram: Not applicable

Signal Word: Not applicable

Hazard statement(s): Not applicable

Precautionary statement(s): Not applicable

Hazards not otherwise classified: Not applicable

General: As a part of good industrial hygiene and safety practices, use skin and eye protection while using this product.

Additional classifications:

HMIS Ratings (scale 0 – 4)
Health – 0 Minimal
Fire – 0 Minimal
Reactivity – 0 Minimal

3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

This product does not contain any components classified as hazardous under 29 CFR 1910.1200

4. FIRST AID MEASURES

Inhalation: Move person away from exposure. If having difficulty breathing, administer oxygen. If breathing has stopped, administer artificial respiration and seek medical attention. .
Eyes: Flush eyes with water lifting upper and lower lids occasionally for 15 minutes. If irritation persists, seek medical attention.
Skin: Remove contaminated clothing. Wash affected area thoroughly with soap and water. If irritation persists, seek medical attention.
Ingestion: Contact physician or Poison Control Center (PCC) immediately. Do NOT induce vomiting unless instructed to do by physician or PCC.

5. FIREFIGHTING MEASURES

Suitable extinguishing media: Use extinguishing media suitable for surrounding fire
Unsuitable extinguishing media: None are known
Specific hazards in case of fire: None are known
Special protective equipment required for firefighting: None are known
Additional information for firefighters: None

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

- Wear appropriate PPE as needed
- Keep unprotected persons away

Environmental precautions:

- Prevent material from entering drains, septic systems, water sources, etc. by the use of dikes, absorbent materials and booms.

Material containment and clean up:

- Contain material with dikes. Vacuum up spilled material or use absorbent media. Remove spilled material to storage for proper disposal. Dispose of in accordance with local, state and federal regulations. Rinse residual stain with water.

7. HANDLING AND STORAGE

Precautions for safe handling: No special handling required if material is used correctly. Avoid aerosol formation and wear proper PPE.
Information about protection against explosions and fires: No special measures required if material is stored and used correctly
Information about safe storage: Protect material from temperatures under 32°F (0°C)
Shelf Life: 18 months

8. EXPOSURE CONTROLS / PERSONAL PROTECTIONS

Additional information about exposure controls: No further data; see section 7
Components with limit values that require monitoring at the workplace: None
PPE (personal protective equipment) and hygienic measures:

- Wear ANSI approved safety glasses or goggles to protect eyes
- Wear latex or rubber gloves to protect skin
- Wash hands thoroughly before breaks and at end of work day

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information:

- Physical state: Liquid
- Color: Light Brown
- Odor: Polycarboxylate
- Odor Threshold: Not available

Physical properties:

- pH value (@70°F): 3.00 – 7.00
- Specific gravity (@70°F): 1.030 – 1.130
- Bulk density: Not available
- Boiling point: 212°F / 100°C
- Freezing point/Melting point: 32°F / 0°C
- Decomposition temperature: Not available
- Vapor pressure: Not available
- Vapor density: Not available
- Evaporation rate: Not available
- Solubility in / Miscibility with water: 100%
- Partition Coefficient (n-octanol/water): Not available
- Auto ignition: Material is not self-igniting
- Flash point: Material is non-flammable
- Lower / Upper Flammability Limits: Not applicable
- Viscosity: Not available
- Danger of explosion: material does not present an explosion hazard

10. STABILITY AND REACTIVITY

Material stability: Material is stable and not sensitive to mechanical impact
Possibility of hazardous reactions: None known
Incompatible materials to avoid: None known
Hazardous decomposition products: None expected during normal storage, handling and use

11. TOXICOLOGICAL INFORMATION

Routes for exposure for solids and liquids are ingestion and inhalation, but may include eye and skin contact.

Acute toxicity: This product has not been test for toxicity. Based on data derived from individual components the classification criteria are not met. No adverse health effects are expected with intended use and appropriate handling.

- Dermal: non-toxic after a single skin contact
- Inhalation: non-toxic by inhalation
- Ingestion: non-toxic after a single ingestion
- Irritation/corrosion: not expected with intended use and appropriate handling.

Chronic toxicity: This product has not been tested for toxicity. Based on the properties of the individual components, no adverse health effects are expected with intended use and appropriate handling.

- Repeated dose: based on available data, the classification criteria are not met
- Genetic: based on available data, the classification criteria are not met
- Carcinogenicity: based on available data, the classification criteria are not met

- Reproductive: based on available data, the classification criteria are not met
- Teratogenicity: based on available data, the classification criteria are not met

12. ECOLOGICAL INFORMATION

Based on available data, potential for environmental toxicity is low; however discharge to the environment should be avoided.
Ecotoxicity: product is unlikely harmful to aquatic life
Persistence and degradability: product expected to degrade in one month or less
Bioaccumulative potential: there is no evidence to suggest bioaccumulation will occur
Mobility in soil: accidental spillage may lead to penetration in the soil and groundwater, however; there is no evidence that this would cause adverse ecological effects

13. DISPOSAL CONSIDERATIONS

In its manufactured form this material is not considered a hazardous waste. Dispose of in accordance with local, state and federal regulations.

14. TRANSPORT INFORMATION

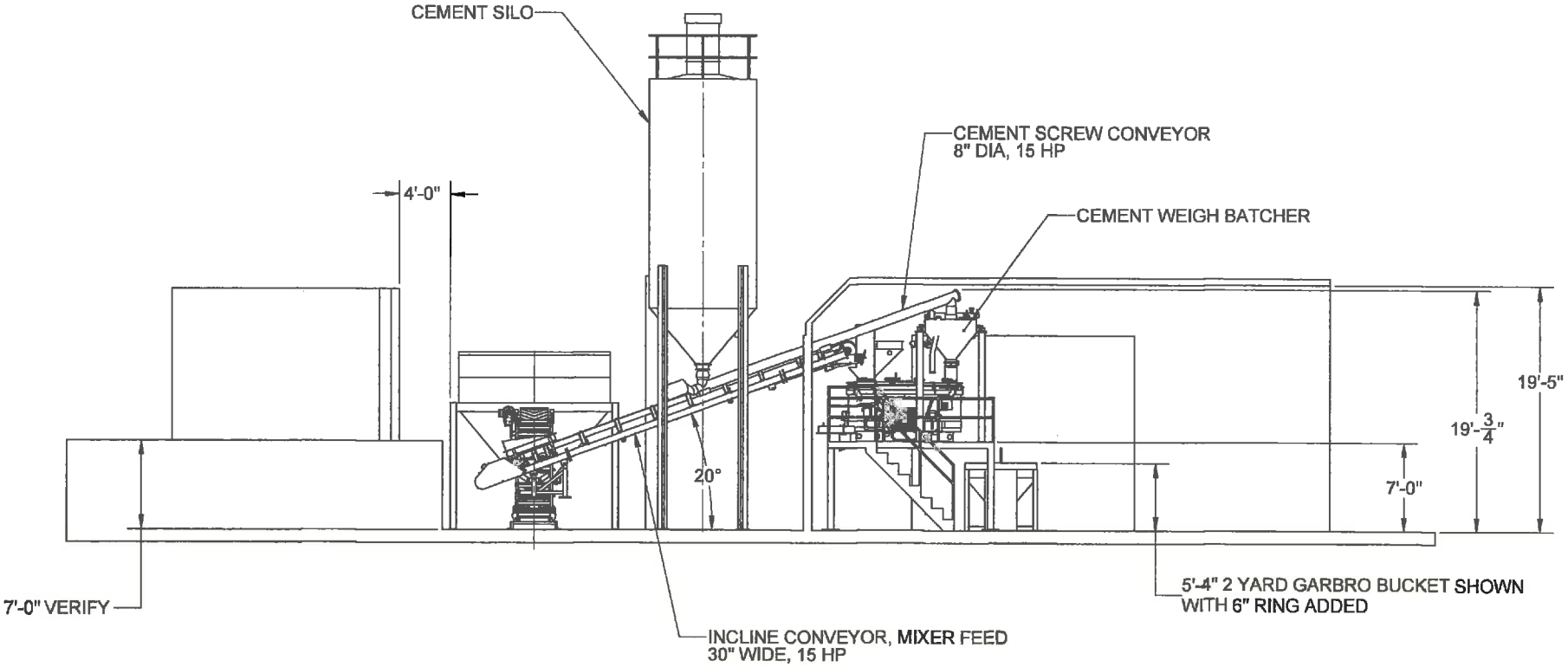
Material is not regulated for transport

15. REGULATORY INFORMATION

- Sara 302 (extremely hazardous materials): not applicable
- Sara 311/312: Not applicable
- Sara 313: Not applicable
- TSCA: All components are listed or exempt

16. OTHER INFORMATION

This information is based on our current knowledge and is furnished without warranty, representation, or license of any kind, except that this information is accurate to the best of RussTech' s knowledge, or is obtained from sources believed by RussTech to be accurate. No warranty is expressed or implied regarding the accuracy of this information or the results to be obtained from its use thereof. RussTech assumes no responsibility for injuries proximately caused by use of the Material if reasonable safety procedures are not followed as stipulated in this Data Sheet. Additionally, RussTech assumes no responsibility for injuries caused by abnormal use of the Material even if reasonable safety procedures are followed. Buyer assumes the risk in its use of the Material.



REV	ECO#	DATE	DESCRIPTION	BY
-	000	01/01/00	INITIAL RELEASE	

VOELLER

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TOLERANCES UNLESS OTHERWISE SPECIFIED

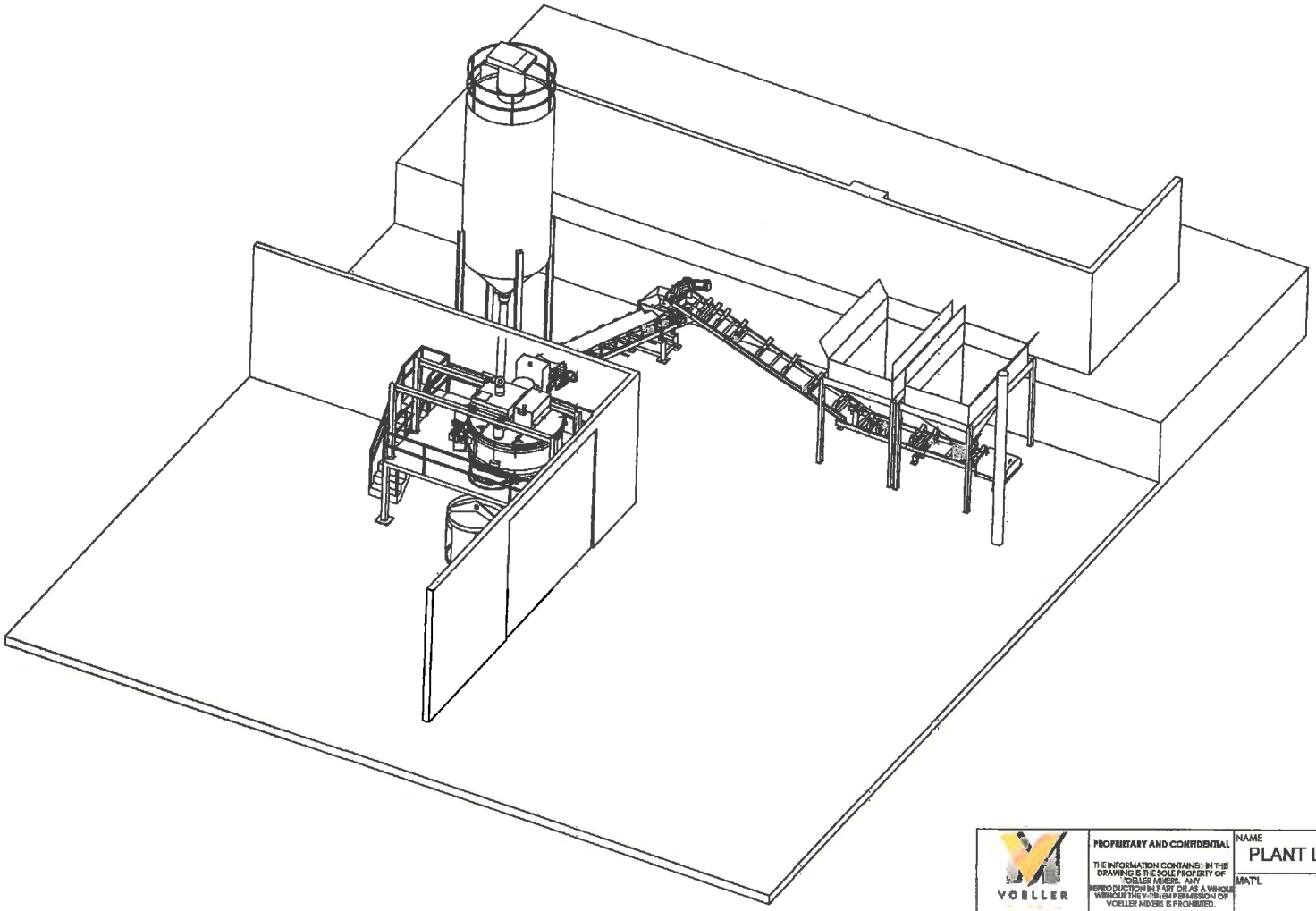
1 DECIMAL PLACES = TOL: ±0.030
2 DECIMAL PLACES = TOL: ±0.015
3 DECIMAL PLACES = TOL: ±0.005
ALL FRACTIONS = TOL: ±1/32

NAME: PLANT LAYOUT, FOSTER SUPPLY INC

MAT'L:

MODEL	DRAWN	DATE	APP
(91100171)	HP	01/14/16	—

SHEET	REV.	DWG. NO.
SHEET 3 OF 5	A	91100171



REV	ECO#	DATE	DESCRIPTION	BY
-	000	01/01/00	INITIAL RELEASE	

VOELLER

TOLERANCES UNLESS OTHERWISE SPECIFIED

1 DECIMAL PLACES = TOL: ±0.030
2 DECIMAL PLACES = TOL: ±0.015
3 DECIMAL PLACES = TOL: ±0.005
ALL FRACTIONS = TOL: ±1/32

NAME: PLANT LAYOUT, FOSTER SUPPLY INC

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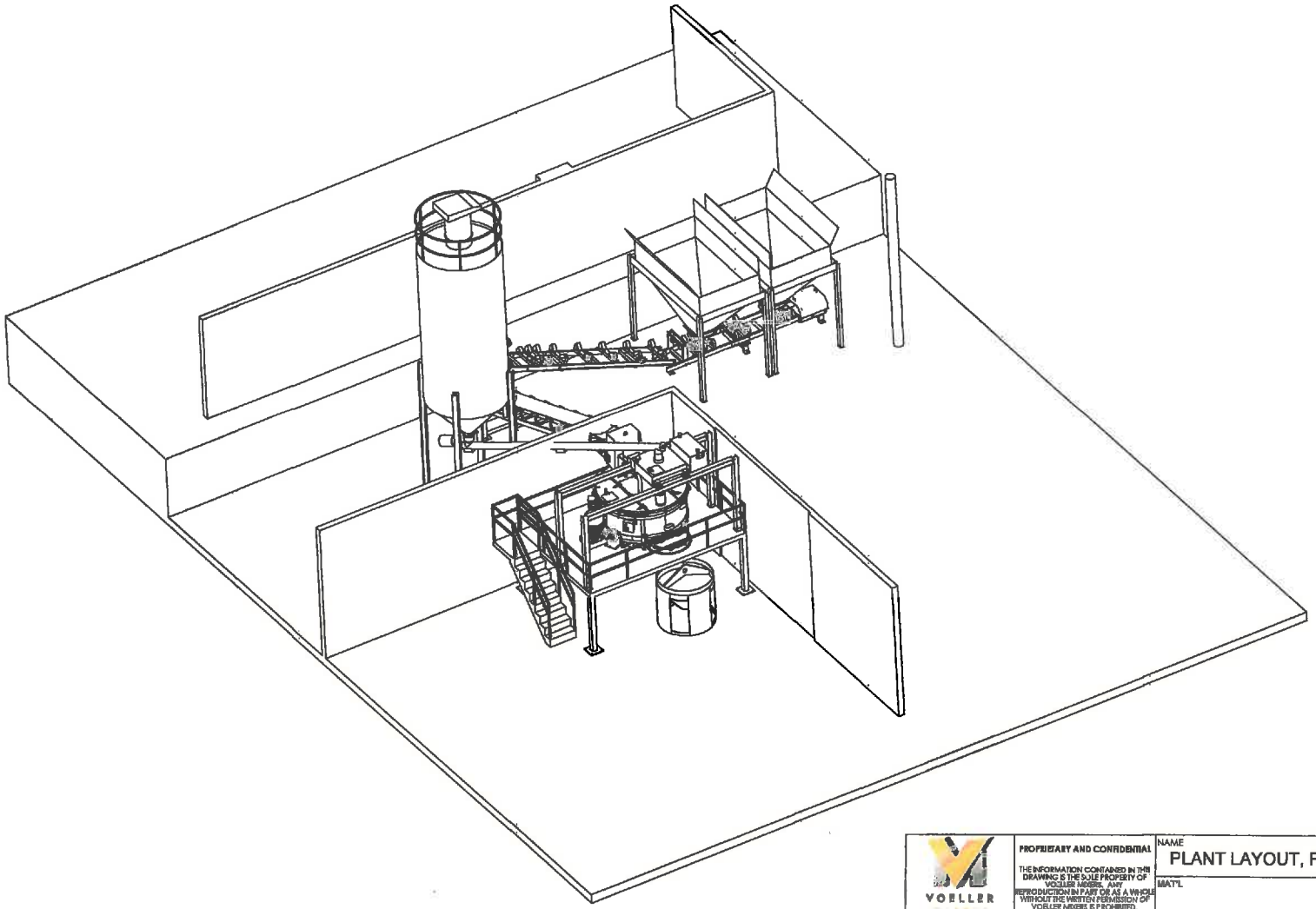
MODEL	DRAWN	DATE	APP
(91100171)	HP	01/14/16	—

SHEET	REV.	DWG. NO.
SHEET 4 OF 5	A	91100171



REV	ECO#	DATE	DESCRIPTION	BY
-	000	01/01/00	INITIAL RELEASE	

VOELLER

TOLERANCES UNLESS OTHERWISE SPECIFIED

1 DECIMAL PLACES = TOL: ±0.010
2 DECIMAL PLACES = TOL: ±0.015
3 DECIMAL PLACES = TOL: ±0.005
ALL FRACTIONS = TOL: ±1/32

NAME: PLANT LAYOUT, FOSTER SUPPLY INC

MAT'L:

MODEL	DRAWN	DATE	APP
(91100171)	HP	01/14/16	—

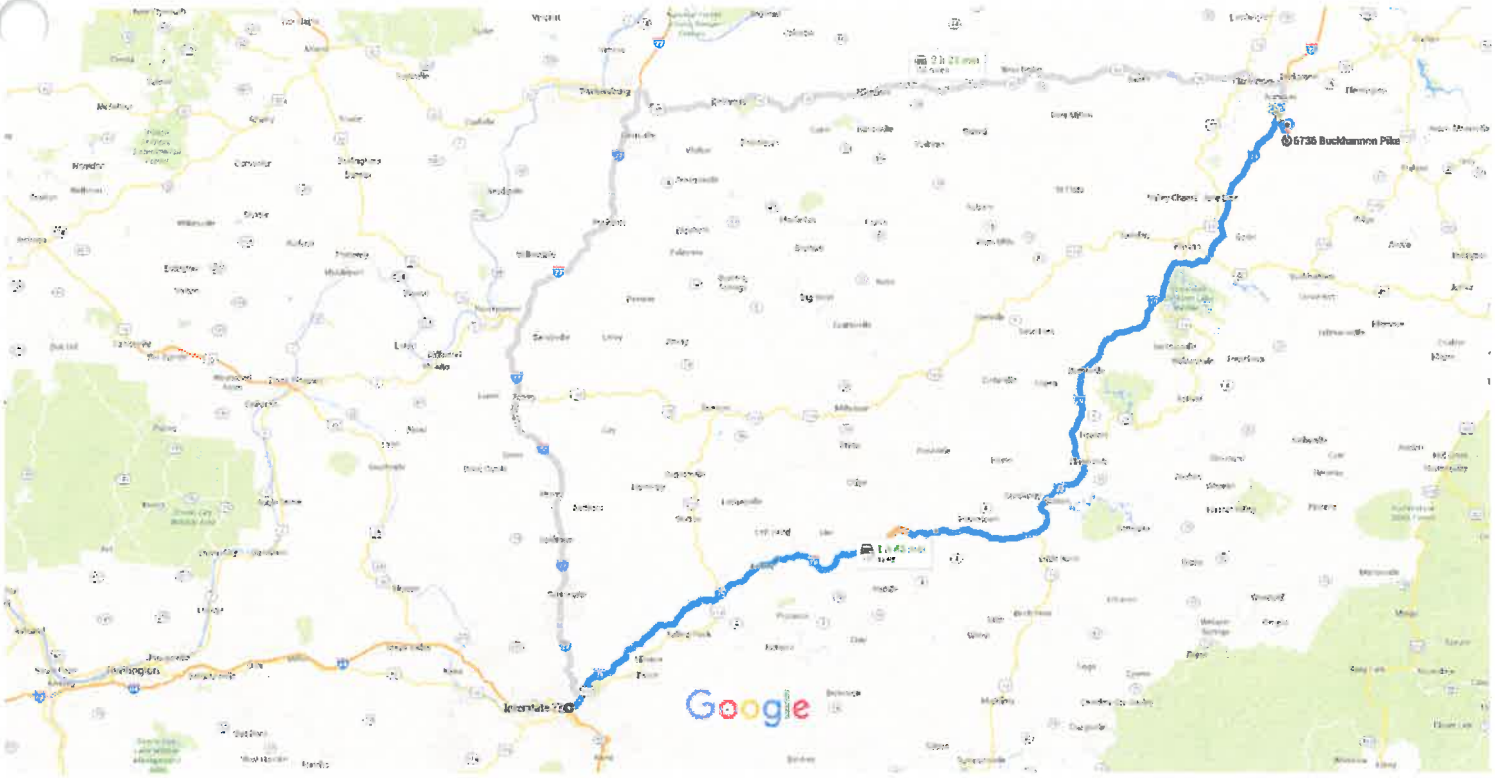
SHEET	REV.	DWG. NO.
SHEET 5 OF 5	A	91100171

Directions From Charleston and Map

Google Maps

Interstate 77, Charleston, WV 25302 to 6736 Buckhannon Pike, Mount Clare, WV 26408

Drive 120 miles, 1 h 45 min



Map data ©2016 Google 5 mi

Interstate 77

Charleston, WV 25302

Follow I-79 N to WV-20 S in Southern. Take exit 115 from I-79 N

1 h 42 min (118 mi)

1. Head west on I-77 S

338 ft

2. Use the right lane to take exit 101 for I-64 W/US-119 S toward Huntington

0.2 mi

3. Keep right to continue on Exit 58C, follow signs for US-60/Washington St/Civic Center and merge onto US-119 S/Bigley Ave

0.4 mi

4. Use the left 2 lanes to turn slightly left onto Pennsylvania S

0.2 mi

5. Use the 2nd from the left lane to turn left onto Lee St W

220 ft

6. Use the 2nd from the left lane to turn left at the 1st cross street onto Pennsylvania Ave N

371 ft

7. Use the left lane to merge onto I-64 E via the ramp to I-77/I-79/Becklay

0.3 mi

8. Use the left 3 lanes to take exit 59 for I-77 N toward I-79/Parkersburg

0.5 mi

9. Continue onto I-77 N

1.4 mi

10. Keep right at the fork to continue on I-79 N, follow signs for Clarksburg

114 mi

11. Take exit 115 for WV-20 toward Stonewood/Nutter Fort

0.3 mi

12. Turn right onto WV-20 S

Destination will be on the right

4 min (2.4 mi)

6736 Buckhannon Pike

Mount Clare, WV 26408

These directions are for planning purposes only. You may find that construction projects, traffic, weather, or other events may cause conditions to differ from the map results, and you should plan your route accordingly. You must obey all signs or notices regarding your route.

This document was too large to scan. If interested in viewing please contact: depfoia@wv.gov or

West Virginia Department of Environmental Protection Public Information Office

FOIA Request

601 57th St. S.E.

Charleston, WV 25304.

The fax number is 304-926-0447.

Thank you.

dep

west virginia department of environmental protection