Vulcan
Materials Company

November 19, 2015

SC Department of Health and Environmental Control
Industrial Wastewater Permitting Section
2600 Bull Street
Columbia, SC 29201

Sent via UPS Ground

RE: Vulcan Construction Materials, LLC – Notice of Intent
Proposed Lexington Quarry

To Whom It May Concern

Enclosed is a Notice of Intents (NOI) for Vulcan Construction Materials, LLC proposed Lexington Quarry for coverage under General Permit SCG730000. A mine permit application was submitted to DHEC's Mining and Reclamation Section on November 11, 2015.

The facility diagram, USGS map and MSDS are included. A stormwater pollution prevention plan (SWPPP) will be developed and implemented prior to beginning operation at the site.

Should you have any questions regarding the enclosed information, please contact me at 864-299-4785.

Sincerely

John R. Aultman
Manager of Environmental Services – South Carolina

Enclosures

RECEIVED
NOV 2 4 2015
WATER FACILITIES
PERMITTING DIVISION

D H E C
PROMOTE PROTECT PROSPER

Notice of Intent (NOI)
NPDES General Permit for Discharges Associated with Nonmetallic Mineral Mining Facilities
SCG730000

Submission of this Notice of Intent constitutes notice that the party identified in this form intends to be authorized by a NPDES permit issued for Nonmetallic Mineral Mining discharges in a State location identified in this form. Becoming a permittee obligates such a discharge to comply with all terms and conditions of the permit. **ALL NECESSARY INFORMATION MUST BE INCLUDED WITH THIS FORM. AN ANNUAL OPERATING FEE OF $100 IS REQUIRED FOR COVERAGE UNDER THIS PERMIT. See Instructions.**

I. Site/Operator Information

Name of the Mining or Pit Site: Lexington Quarry

Site Address: 2000 feet east US Hwy 1; S-32-31

Site City: Leesville State: SC Site County: Lexington Site ZIP (if available):

Tax map # (list all): 005000-05-020, 006100-05-023, 006100-05-030, 006100-05-035

Company/Operator Name: Vulcan Construction Materials, LLC Phone: 864-299-4785

Company/Operator Physical Address (do not use PO Boxes): 201 Brown Road

City: Piedmont State: SC ZIP: 29673 Operator Status: ☐ Federal ☐ State ☐ Public ☑ Private

II. Site Contact Information

Contact Name: John Aultman Phone: 864-299-4785

Contact Title: Manager of Environmental Services - SC

Mailing and Billing Address: 201 Brown Road

City: Piedmont State: SC ZIP: 29673 Email (optional): aultmanj@vmcmail.com

III. Site and Discharge Information

A. Materials to be Mined: Granite, fill dirt (if material is mined solely as fill dirt, write **fill dirt** in the blank, not "sand" or "clay")

B. SIC or Activity Codes: Primary: 1423 2nd: 1499 3rd: 4th:
(The primary SIC codes for nonmetallic mining activities are in the 1400 series, for example fill dirt pits have the SIC code of 1499. Please list any other SIC codes that apply to this activity.)

C. Total number of acres to be affected by the mining activity: 553.2

D. Does the site currently have Nonmetallic Mineral Mining Discharge General Permit coverage?
If **Yes** complete this permit number SCG73 _ ; otherwise mark ■ No

E. List any other NPDES or ND Permit numbers for the site: SC SC ND

F. Is this site exempt from the Mining Act? ☐ Yes, Reason for exemption: ☑ No, Mining Permit #: TBD

G. Will this site discharge mine dewatering (see instructions for definition)? ☑ Yes ☐ No
Will this site discharge a process-generated wastewater (see instructions for definition)? ☑ Yes ☐ No
Will this site discharge mine equipment wash water (see instructions for definition)? ☑ Yes ☐ No
Will this site discharge suction dredge water (see instructions for definition)? ☐ Yes ☑ No

H. Provide the latitude and longitude (to the nearest 15 seconds) of the site, and the name of the nearest receiving water body (ex: to unnamed tributary to Saluda River). If any answer in G. above is "yes", also list each outfall and the flow (in gallons per day).

Outfall Number or Storm Water	Flow (gallons per day)	Latitude			Longitude			Receiving Waters
		Deg	Min	Sec	Deg	Min	Sec	
NPDES Outfall 001	1,700,000*	33	56	55	81	28	12	Little Creek
See Attachment for Stormwater outfalls SW01 - SW07								

*Intermittent flow of 1200 gpm

I. Describe the discharge flow path from the point it exits the system to the point it enters the receiving water (attach a separate sheet if more space is needed). Please note, if applicable, that easements have been obtained for any conveyances of the discharge not on property of the permittee, which are not waters of the State.

NPDES Outfall 001 discharges directly into Little Creek and is conveyed by pipe.

Temporary Stormwater Outfalls SW1, SW6 & SW7 will flow to Little Creek. The outfalls will not be necessary once the quarry pit is developed.

Stormwater Outfalls SW2, SW3, SW4 & SW5 will flow to Little Creek.

J. Locate the site and any discharges on a U.S. Geological Survey 7½ minute quad sheet. An 8½ x 11 copy of the portion of the map with the site and the discharge identified should be submitted with this NOI.

USGS Map Quadrant Name: GILBERT SC QUADRANGLE

K. Provide a map of the site that shows the following:
   a. The property boundary and all areas that will be affected by mining activities (i.e. the pits or excavation areas, overburden areas, material stockpiles, etc.)
   b. Location of planned access and haul roads on the area to be affected.
   c. Location and name (if appropriate) of streams, lakes, wetlands and existing drainage ditches within the area to be permitted. Use arrows to indicate direction of water flow in such streams and drainage ditches.
   d. A legend showing the name of applicant, name of the proposed mine, north arrow, county, scale, date of preparation and name and title of the person who prepared the site map.

L. Describe all operations that contribute wastewater to the discharge and any treatment that is provided. Attach any existing data on the quality of the discharge.

In general, surface water flow for a majority of the active quarry and processing areas is directed toward either the quarry pit or a process water impoundment. These areas include the crushing and sizing plants, wash plants and material stockpiles. The water accumulating in the pit is pumped to the process water impoundment and used for cooling water, dust suppression and washing stone. Water from the quarry pit can be pumped to a polishing pond after coagulants are added and then be discharged from the site through NPDES outfall 001. From the shop area where the bulk of the petroleum products are stored, surface water flow is toward the west. In this area, a grit chamber and oil/water separator accepts stormwater from loading/unloading and any potential spills and carries the treated water to the quarry pit. Any mobile equipment spills are diverted to the quarry pit.
Water collected in the pit may be pumped to the polishing pond and discharged through a permitted NPDES outfall into Little Creek. Stormwater outfalls discharge into Little Creek.

M. Use the space below to bring to the Department's attention any additional information you feel should be considered in the permit decision. Attach an additional sheet if necessary.

Coagulants added as best management practices to aid settling include:

PFR P251 for Discharging
PFR C258 for Process waters only

Ponds that have the potential to discharge will use the coagulant PFR P251. Ponds with strict closed-loop process systems will use coagulant PFR C258.

Products from other manufactures of similar makeup may be substituted as needed.

IV. Certification

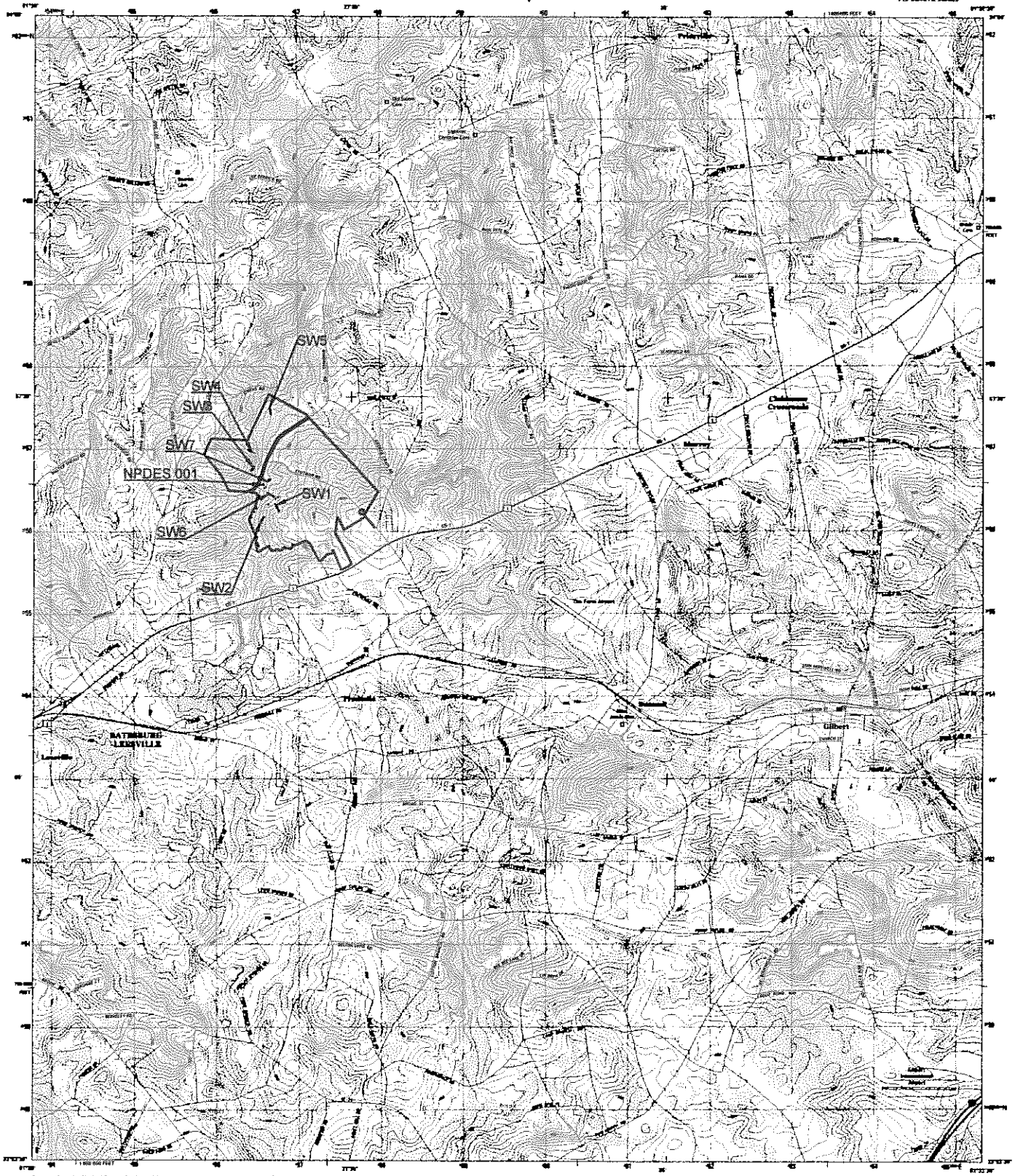
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations.

Print Name: Elliott Botzis Title: Vice President, South Carolina

Signature: Elliott Botzis Date: 11-19-2015

Vulcan Construction Materials, LLC
Lexington Quarry
Section III.H - Table Attachment

Outfall Number or Storm Water	Flow *(gallons per day)*	Latitude			Longitude			Receiving Waters
		Deg	Min	Sec	Deg	Min	Sec	
Stormwater SW01	Intermittent	33	56	47	81	28	6	Ditch to Little Creek
Stormwater SW02	Intermittent	33	56	40	81	28	13	Little Creek
Stormwater SW03	Intermittent	33	57	1	81	28	17	Little Creek
Stormwater SW04	Intermittent	33	57	8	81	28	18	Little Creek
Stormwater SW05	Intermittent	33	57	25	81	28	9	Little Creek
Stormwater SW06	Intermittent	33	56	51	81	28	9	Ditch to Little Creek
Stormwater SW07	Intermittent	33	56	56	81	28	10	Little Creek


U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY
USGS
US Topo
GILBERT QUADRANGLE
SOUTH CAROLINA-LEXINGTON CO.
7.5-MINUTE SERIES
SW5
SW4
SW3
SW7
NPDES 001
SW1
SW6
SW2
BATESBURG-LEESVILLE
Gilbert
SCALE 1:24 000
GILBERT, SC
2014

SINCE 1954
Paschal
ASSOCIATE SALES
incorporated

PFR P251
MATERIAL SAFETY DATA SHEET

IDENTIFICATION

SUBSTANCE: **ALUMINUM CHLORHYDRATE SOLUTION**
CAS#: 12042-91-0

MANUFACTURER: Gulbrandsen Technologies, Inc.
2 Main Street
Clinton, NJ 08809

PRODUCT INFORMATION: (908) 735-5458

TRANSPORTATION
EMERGENCY (CHEMTREC): (800) 424-9300

REVISION DATE: 10/24/2007
SUPERSEDES: 12/01/2002

INGREDIENTS

INGREDIENT	CAS #	PERCENTAGE
Aluminum chlorhydrate	12042-91-0	25 - 50
Water	7732-18-5	50 - 75

PHYSICAL DATA

BOILING POINT: 110°C (230°F)
MELTING POINT: -7°C (20°F)
SPECIFIC GRAVITY: 1.15 - 1.35
% VOLATILE: 50 - 75 (water)
VAPOR DENSITY: Air=1, N/F[1]
APPEARANCE: Colorless to light yellow liquid

pH (15% w/w): 4.0 - 5.0
SOLUBILITY IN WATER: Complete
VAPOR PRESSURE: N/F[1]
EVAPORATION RATE: N/F
ODOR: None

FIRE AND EXPLOSION HAZARDS

FLASH POINT: N/A[2]
FLAMMABLE LIMITS IN AIR: UFL: N/A LFL: N/A (% BY VOLUME)
EXTINGUISHING MEDIA: Will not burn; use materials appropriate for surrounding fire.
SPECIAL FIRE FIGHTING INSTRUCTIONS: Cool exposed tanks with water.
SPECIAL FIRE AND EXPLOSION HAZARDS: Possible formation of hazardous chlorine compounds.

REACTIVITY

STABILITY: Stable
DECOMPOSITION: Will not occur
POLYMERIZATION: Will not occur
INCOMPATIBILITY: N/F

HEALTH HAZARDS

EXPOSURE LIMITS:The ACGIH TLV for soluble aluminum salts is 2 mg/m^3 as Al (8 hour time-weighted average).

CARCINOGENICITY: None of the components of this material are listed as a carcinogen by IARC, NTP, OSHA, or ACGIH.

TOXICOLOGY

INGESTION: Effects of small amount are negligible; large amounts may injure slightly.
EYE CONTACT: Eye contact results in mild irritation and redness.
SKIN CONTACT: Skin contact may cause irritation. Skin may dry or crack due to astringent nature of material.
INHALATION: Although unlikely to occur, inhalation may result in an adverse reaction to persons previously sensitized to the material.

FIRST AID

EYE: Immediately flush eyes for 15 minutes with plenty of water. Call a physician.
SKIN: Flush skin with water. Remove contaminated clothing; wash before reuse.
INHALATION: Remove to fresh air.
INGESTION: None needed.

PERSONAL PROTECTION

Adequate general ventilation should be provided to keep vapor and mists below exposure limits.
Wear safety glasses with side shields. Wear a face shield if possibility of material splashing or spraying exists. Where there is possibility of skin contact, use the following as appropriate: gloves impervious to material (appropriate gloves include those made from neoprene and nitrile), apron, boots, hood, pants and jacket. Wear a NIOSH/OSHA approved respirator with a dust/mist cartridge if there is potential of exposure to mists in excess of applicable limits.

SPILL/LEAK PROCEDURE

Review safety precautions before proceeding with cleanup. Use appropriate personal protection equipment.
Dike area around spill to prevent spreading, and use absorbent material to pick up spill.
DISPOSAL: Under the Resource Conservation and Recovery Act (RCRA), it is the responsibility of the user to determine whether a substance should be classified as a hazardous waste at the time of disposal. This is due to the fact that product use, transformation, synthesis, mixtures, etc. may change the nature of the product. Dispose of waste in accordance with applicable federal, state, and local laws. This product would not be considered a hazardous waste if disposed of as shipped.

SHIPPING INFORMATION

DOT

PROPER SHIPPING NAME: N/A
HAZARD CLASS: N/A
UN/NA #: N/A
DOT LABELS: N/A
DOT PLACARDS: N/A

STORAGE CONDITIONS: Keep containers closed

TITLE III HAZARD CLASSIFICATIONS

ACUTE: No
CHRONIC: No
FIRE: No
REACTIVITY: No
PRESSURE: No

EXTREMELY HAZARDOUS SUBSTANCE: No
CERCLA HAZARDOUS SUBSTANCE: No
TOXIC CHEMICAL: No

NFPA/HMIS RATINGS:
HEALTH: 1
FLAMMABILITY: 0
REACTIVITY: 0

Personal protection rating to be supplied by user depending on use conditions.

ADDITIONAL INFORMATION AND REFERENCES

Gulbrandsen Technologies, Inc. and its divisions, affiliates and subsidiaries ("Gulbrandsen") believe that the information contained in each material safety data sheet ("MSDS"), technical data sheet ("TDS"), product information brochure and/or information contained herein (including data and statements) is accurate as of the date of publication. The MSDSs, TDSs, product information brochures, and information contained herein are referred to collectively as the "Data Sheets". It is the responsibility of the user to obtain and use the most recent version of the Data Sheets. Each Data Sheet relates only to the specific product designated therein and may not be valid where such product is used in combination with any other materials or in any process. Further, since the conditions and methods of use of the product and information are beyond the control of Gulbrandsen, Gulbrandsen expressly disclaims any and all liability as to any consequential damages or results obtained or arising from any use of the products or the information contained in the Data Sheets. **NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE AS CONCERNS THE DATA SHEETS OR THE RELATED PRODUCTS.**

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[1]N/F = None found
[2]N/A = Not applicable

MATERIAL SAFETY DATA SHEET

REVISION DATE: 09/16/2006

1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

PFR C258

Supplier: SNF INC
PO Box 250
Riceboro, Georgia 31323
Tel: 912-884-3366 Fax : 912-884-5031

2. COMPOSITION/INFORMATION ON INGREDIENTS

Identification of the preparation : Cationic polymer in solution

Chemical Name	**CAS-No**	**Weight %**
Polydiallyldimethylammonium chloride (Polydadmac)	26062-79-3	20-50

3. HAZARDS IDENTIFICATION

Spills produce extremely slippery surfaces
Harmful to aquatic organisms
May cause long-term adverse effects in the aquatic environment

4. FIRST AID MEASURES

Inhalation: Move to fresh air.
Skin contact: Wash with water and soap as a precaution. In case of persistent skin irritation, consult a physician.
Eye contact: Rinse thoroughly with plenty of water, also under the eyelids. In case of persistent eye irritation, consult a physician.
Ingestion: The product is not considered toxic based on studies on laboratory animals.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:
Water, water spray, foam, carbon dioxide (CO2), dry powder
Special fire-fighting precautions:
Spills produce extremely slippery surfaces.
Protective equipment for firefighters:
No special protective equipment required.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: No special precautions required.
Environmental precautions: Do not contaminate water.
Methods for cleaning up: Do not flush with water. Dam up. Soak up with inert absorbent material. If liquid has been spilled in large quantities clean up promptly by scoop or vacuum. Keep in suitable and closed containers for disposal. After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Handling: Avoid contact with skin, eyes and clothing. When preparing the working solution ensure there is adequate ventilation. Do not breathe vapors or spray mist. When using do not smoke.
Storage: Keep in a dry, cool place (0 - 35°C). Keep away from heat and sources of ignition. Freezing will affect the physical condition and may damage the material.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: Use local exhaust if misting occurs. Natural ventilation is adequate in absence of mists.
Personal protection equipment
- Respiratory protection:
In case of insufficient ventilation wear suitable respiratory equipment.
- Hand protection:
Rubber gloves.
- Eye protection:
Safety glasses with side-shields. Do not wear contact lenses.
- Skin protection:
Chemical resistant apron or protective suit if splashing or contact with solution is likely.
Hygiene measures: Wash hands before breaks and at the end of workday. Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	liquid
Color:	amber
Odor:	slight
pH:	4 - 8 for product series. See Technical Bulletin for specific value.
Melting point (°C):	Not applicable.
Flash point (°C) :	>100°C

Autoignition temperature (°C):	>200°C
Bulk density:	See Technical Bulletin
Water solubility:	Completely miscible.
Viscosity (mPa s):	See Technical Bulletin

10. STABILITY AND REACTIVITY

Stability:
Product is stable, No hazardous polymerization will occur. Oxidizing agents may cause exothermic reactions.

Hazardous decomposition products:
No decomposition if stored and applied as directed. Burning of the dried material can produce: hydrogen chloride gas, nitrogen oxides (NOx), carbon oxides (COx).

11. TOXICOLOGICAL INFORMATION

Acute toxicity

- Oral:	LD50/oral/rat > 2000 mg/kg
- Dermal:	This product has been tested for cutaneous irritation on New Zealand White male rabbits according to OECD guideline 404. No effects (erythema or edema) were observed after 24 hours. Not irritating
- Inhalation:	The product is not expected to be toxic by inhalation.

Irritation

- Skin:	May cause skin irritation with susceptible persons
- Eyes:	Testing conducted on rabbits showed minor transient irritation which cleared within days.

Sensitization:	The product is not expected to be sensitizing.
Chronic toxicity:	NOEL / Oral / rat / 90-day = 5000 mg/kg Two-year feeding studies on rats and dogs did not reveal any adverse health effects.
Other information:	Not mutagenic in AMES Test. Not mutagenic in micronucleus test on mice. Not teratogenic, NOEL = 175 mg/kg.

12. ECOLOGICAL INFORMATION

Ecotoxicity

The product is rapidly eliminated from the aquatic medium through irreversible adsorption onto suspended matter (sludge, clays, humic and other organic acids) and abiotic degradation (hydrolysis). The degradation products are practically non-toxic to aquatic organisms and present no danger to the environment.

- Fish	LC50/Danio rerio/96 hr > 10 mg/L (OECD 203)
- Algae	Algal inhibition tests are not appropriate. The flocculating characteristics of the product interfere directly in the test medium preventing homogenous distribution which invalidates the test.
- Daphnia	EC50/Daphnia magna/48 hr > 10 mg/L (OECD 202)
Bioaccumulation	Does not bioaccumulate.
Persistence / degradability	Not readily biodegradable

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:

In accordance with federal, state and local regulations

Contaminated packaging: Rinse empty containers with water and use the rinse water to prepare the working solution. Can be landfilled or incinerated, when in compliance with local regulations.

14. TRANSPORT INFORMATION

Not regulated by DOT, IATA, IMDG.

15. REGULATORY INFORMATION

All components of this product are on the TSCA and DSL inventories.

RCRA status:	Not a hazardous waste.
Hazardous waste number:	Not applicable
Reportable quantity (40 CFR 302):	Not applicable
Threshold planning quantity (40 CFR 355)	Not applicable

California Proposition 65 information : Not applicable

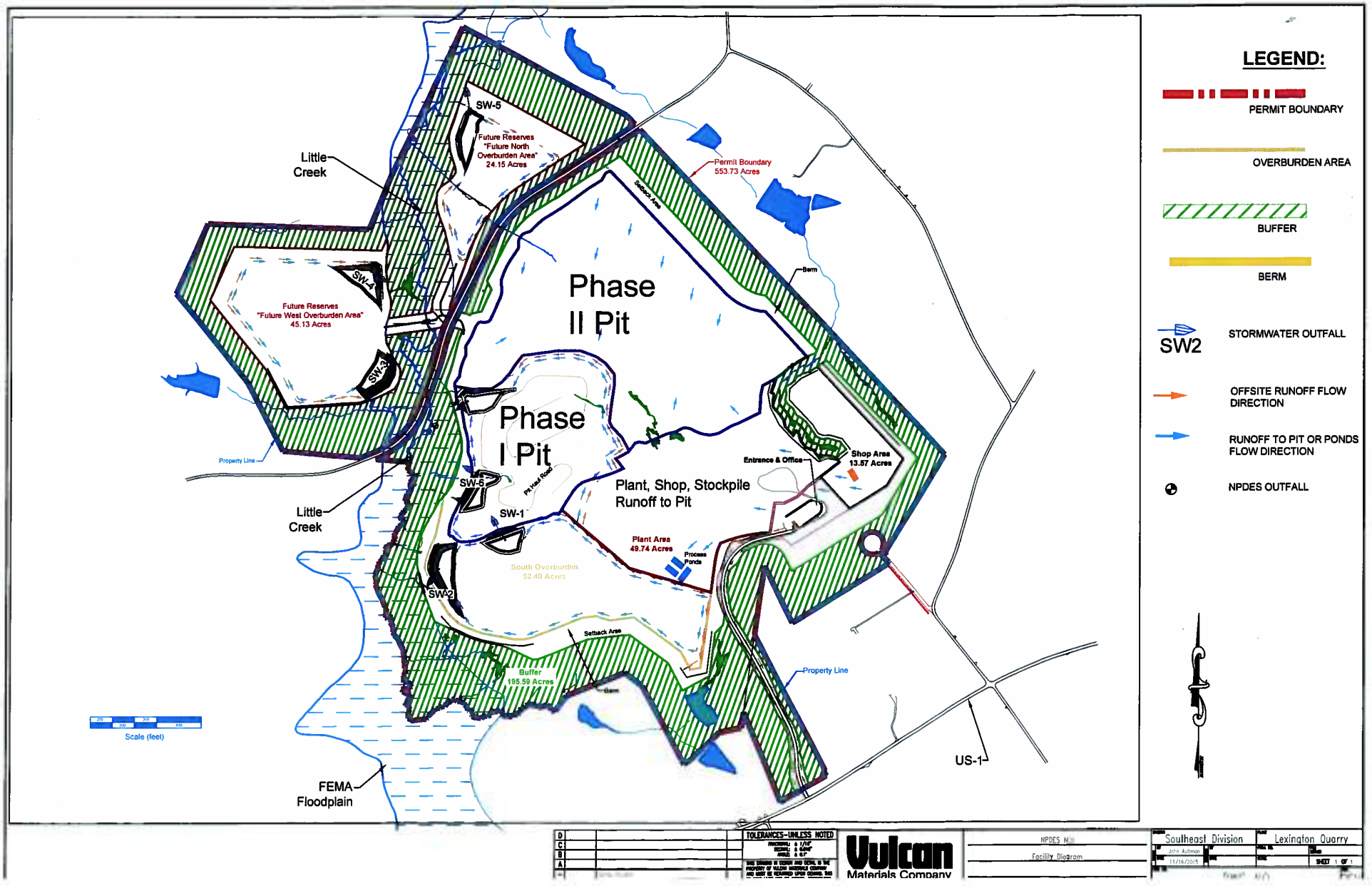
HMIS & NFPA Ratings	**HMIS**	**NFPA**
Health:	1	1
Flammability:	0	0
Reactivity:	0	0
Personal Protection/Special:	B	

16. OTHER INFORMATION

Person to contact: Regulatory Affairs Manager

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication.

The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release, and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text.


LEGEND:
PERMIT BOUNDARY
OVERBURDEN AREA
BUFFER
BERM
SW2
STORMWATER OUTFALL
OFFSITE RUNOFF FLOW DIRECTION
RUNOFF TO PIT OR PONDS FLOW DIRECTION
NPDES OUTFALL
Phase II Pit
Phase I Pit
Plant, Shop, Stockpile Runoff to Pit
Little Creek
Little Creek
FEMA Floodplain
Future Reserves "Future North Overburden Area" 24.15 Acres
Future Reserves "Future West Overburden Area" 45.13 Acres
Permit Boundary 553.73 Acres
Setback Area
Berm
Property Line
Property Line
Entrance & Office
Shop Area 13.57 Acres
Plant Area 49.74 Acres
Process Ponds
South Overburden 52.40 Acres
Buffer 195.59 Acres
Setback Area
Berm
SW-1
SW-2
SW-3
SW-4
SW-5
SW-6
Pit Haul Road
US-1
Scale (feet)
TOLERANCES-UNLESS NOTED
Vulcan Materials Company
Facility Diagram
Southeast Division
Lexington Quarry
John Autmon
11/16/2015