LANCE R. LEFLEUR
DIRECTOR

ROBERT J. BENTLEY
GOVERNOR

Alabama Department of Environmental Management
adem.alabama.gov

1400 Coliseum Blvd. 36110-2400 ▪ Post Office Box 301463
Montgomery, Alabama 36130-1463
(334) 271-7700 ▪ FAX (334) 271-7950

NOV 18 2016

Alejandro Pedro
Plant Manager
CEMEX Southeast, LLC
PO Box 839
Demopolis, AL 36732

RE: Draft Permit
Demopolis Quarry
NPDES Permit No. AL0027341
Marengo County (091)

Dear Mr. Pedro:

Transmitted herein is a draft of the above referenced permit. Please review the enclosed draft permit carefully. Please submit any comments on the draft permit to the Department within 30 days from the date of receipt of this letter.

Since the Department has made a tentative decision to reissue the above referenced permit, ADEM Admin. Code 335-6-6-.21 requires a public notice of the draft permit in a local newspaper followed by a period of at least 30 days for public comment before the final permit can be issued.

The United States Environmental Protection Agency will also receive the draft permit for review during the 30-day public comment period.

Any mining, processing, construction, land disturbance, or other regulated activity proposed to be authorized by this draft permit is prohibited prior to the effective date of the formal permit. Any mining or processing activity within the drainage basin associated with each permitted outfall which is conducted prior to Departmental receipt of certification from a professional engineer licensed to practice in the State of Alabama that the Pollution Abatement/Prevention Plan was implemented according to the design plan, is prohibited.

Should you have any questions concerning this matter, please contact Jasmine Martin at (334) 270-5622 or jasmine.martin@adem.state.al.us.

Sincerely,

Catherine McNeill

Catherine McNeill, Chief
Mining and Natural Resource Section
Stormwater Management Branch
Water Division

CAM/jm File: DPER/11271

Enclosure

cc: Jasmine Martin, ADEM
Environmental Protection Agency
Department of Conservation and Natural Resources
U.S. Fish and Wildlife Service
Alabama Historical Commission
Advisory Council on Historic Preservation

Birmingham Branch
110 Vulcan Road
Birmingham, AL 35209-4702
(205) 942-6168
(205) 941-1603 (FAX)

Decatur Branch
2715 Sandlin Road, S.W.
Decatur, AL 35603-1333
(256) 353-1713
(256) 340-9359 (FAX)

Mobile Branch
2204 Perimeter Road
Mobile, AL 36615-1131
(251) 450-3400
(251) 479-2593 (FAX)

Mobile-Coastal
3664 Dauphin Street, Suite B
Mobile, AL 36608
(251) 304-1176
(251) 304-1189 (FAX)

Alabama Department of Environmental Management

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM INDIVIDUAL PERMIT

PERMITTEE:	CEMEX Southeast, LLC PO Box 839 Demopolis, AL 36732
FACILITY LOCATION:	Demopolis Quarry 1617 Arcola Road Demopolis, AL 36732 Marengo County T18N, R3E, Sections 19 – 21, 28 – 30
PERMIT NUMBER:	AL0027341

DSN	RECEIVING STREAM
001-1	Unnamed Tributary to French Creek
002-1	Black Warrior River

In accordance with and subject to the provisions of the Federal Water Pollution Control Act, as amended, 33 U.S.C. §§1251-1378 (the "FWPCA"), the Alabama Water Pollution Control Act, as amended, Code of Alabama 1975, §§ 22-22-1 to 22-22-14 (the "AWPCA"), the Alabama Environmental Management Act, as amended, Code of Alabama 1975, §§22-22A-1 to 22-22A-16, and rules and regulations adopted thereunder, and subject further to the terms and conditions set forth in this permit, the Permittee is hereby authorized to discharge into the above-named receiving waters.

ISSUANCE DATE:

EFFECTIVE DATE:

EXPIRATION DATE:

DRAFT

Alabama Department of Environmental Management

MINING AND NATURAL RESOURCE SECTION
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT

TABLE OF CONTENTS

PART I DISCHARGE LIMITATIONS, CONDITIONS, AND REQUIREMENTS

A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning on the effective date of this Permit and lasting through the expiration date of this Permit, the Permittee is authorized to discharge from all outfalls identified on Page 1 of this Permit and described more fully in the Permittee's application, if the outfall has been constructed and certified. Discharges shall be limited and monitored by the Permittee as specified below:

Parameter	Discharge Limitations			Monitoring Requirements	
	Daily Minimum	Monthly Average	Daily Maximum	Sample Type	Measurement Frequency[1]
Sulfate (As S) 00154	-------	Monitor mg/L	Monitor mg/L	Grab	2/Month
pH (Outfall 001) 00400	6.0 s.u.	-------	8.5 s.u.	Grab	2/Month
pH (Outfall 002) 00400	6.0 s.u.	-------	9.0 s.u.	Grab	2/Month
Solids, Total Suspended 00530	-------	25.0 mg/L	45.0 mg/L	Grab	2/Month
Oil & Grease 00556	-------	Monitor mg/L	15.0 mg/L	Grab	2/Month
Iron, Total (As Fe) 01045	-------	Monitor mg/L	Monitor mg/L	Grab	2/Month
Manganese, Total (As Mn) 01055	-------	Monitor mg/L	Monitor mg/L	Grab	2/Month
Flow, In Conduit or Thru Treatment Plant[2] 50050	-------	Report MGD	Report MGD	Instantaneous	2/Month
Total Dissolved Solids (TDS) 70296	-------	Monitor mg/L	Monitor mg/L	Grab	2/Month
Chemical Oxygen Demand (COD) 81017	-------	Monitor mg/L	Monitor mg/L	Grab	2/Month

B. REQUIREMENTS TO ACTIVATE A PROPOSED MINING OUTFALL

1. Discharge from any point source identified on Page 1 of this Permit which is a proposed outfall is not authorized by this Permit until the outfall has been constructed and certification received by the Department from a professional engineer, registered in the State of Alabama, certifying that such facility has been constructed according to good engineering practices and in accordance with the Pollution Abatement and/or Prevention (PAP) Plan.

2. Certification required by Part I.B.1. shall be submitted on a completed ADEM Form 432. The certification shall include the latitude and longitude of the constructed and certified outfall.

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[1] See Part I.C.2. for further measurement frequency requirements.

[2] Flow must be determined at the time of sample collection by direct measurement, calculation, or other method acceptable to the Department.

3. Discharge monitoring and Discharge Monitoring Report (DMR) reporting requirements described in Part I.C. of this Permit do not apply to point sources that have not been constructed and certified.

4. Upon submittal of the certification required by Part I.B.1. to the Department, all monitoring and DMR submittal requirements shall apply to the constructed and certified outfall.

C. DISCHARGE MONITORING AND RECORD KEEPING REQUIREMENTS

1. Sampling Schedule and Frequency

a. The Permittee shall collect at least one grab sample of the discharge to surface waters from each constructed and certified point source identified on Page 1 of this Permit and described more fully in the Permittee's application twice per month at a rate of at least every other week if a discharge occurs at any time during the two week period, but need not collect more than two samples per calendar month. Each sample collected shall be analyzed for each parameter specified in Part I.A. of this Permit.

b. If the final effluent is pumped in order to discharge (e.g. from incised ponds, old highwall cuts, old pit areas or depressions, etc.), the Permittee shall collect at least one grab sample of the discharge from each point source identified on Page 1 of this Permit and described more fully in the Permittee's application each quarterly (three month) monitoring period if a discharge occurs at any time during the quarterly monitoring period which results from direct pumped drainage. Each sample collected shall be analyzed for each parameter specified in Part I.A. of this Permit.

c. The Permittee may increase the frequency of sampling listed in Parts I.C.1.a and I.C.1.b; however, all sampling results must be reported to the Department and included in any calculated results submitted to the Department in accordance with this Permit.

2. Measurement Frequency

Measurement frequency requirements found in Part I.A. shall mean:

a. A measurement frequency of one day per week shall mean sample collection on any day of discharge which occurs every calendar week.

b. A measurement frequency of two days per month shall mean sample collection on any day of discharge which occurs every other week, but need not exceed two sample days per month.

c. A measurement frequency of one day per month shall mean sample collection on any day of discharge which occurs during each calendar month.

d. A measurement frequency of one day per quarter shall mean sample collection on any day of discharge which occurs during each calendar quarter.

e. A measurement frequency of one day per six months shall mean sample collection on any day of discharge which occurs during the period of January through June and during the period of July through December.

f. A measurement frequency of one day per year shall mean sample collection on any day of discharge which occurs during each calendar year.

3. Monitoring Schedule

The Permittee shall conduct the monitoring required by Part I.A. in accordance with the following schedule:

a. MONITORING REQUIRED MORE FREQUENTLY THAN MONTHLY AND MONTHLY shall be conducted during the first full month following the effective date of coverage under this Permit and every month thereafter. More frequently than monthly and monthly monitoring may be done anytime during the month, unless restricted elsewhere in this Permit, but the results should be reported on the last Discharge Monitoring Report (DMR) due for the quarter (i.e., with the March, June, September, and December DMRs).

b. QUARTERLY MONITORING shall be conducted at least once during each calendar quarter. Calendar quarters are the periods of January through March, April through June, July through September, and October through December. The Permittee shall conduct the quarterly monitoring during the first complete calendar quarter following the effective date of this Permit and is then required to monitor once during each quarter thereafter. Quarterly monitoring may be done anytime during the quarter, unless restricted elsewhere in this Permit, but the results should be reported on the last DMR due for the quarter (i.e., with the March, June, September, and December DMRs).

c. SEMIANNUAL MONITORING shall be conducted at least once during the period of January through June and at least once during the period of July through December. The Permittee shall conduct the semiannual monitoring during the first complete semiannual calendar period following the effective date of this Permit and is then required to monitor once during each semiannual period thereafter. Semiannual monitoring may be done anytime during the semiannual period, unless restricted elsewhere in this Permit, but it should be reported on the last DMR due for the month of the semiannual period (i.e., with the June and December DMRs).

d. ANNUAL MONITORING shall be conducted at least once during the period of January through December. The Permittee shall conduct the annual monitoring during the first complete calendar annual period following the effective date of this Permit and is then required to monitor once during each annual period thereafter. Annual monitoring may be done anytime during the year, unless restricted elsewhere in this Permit, but it should be reported on the December DMR.

4. Sampling Location

Unless restricted elsewhere in this Permit, samples collected to comply with the monitoring requirements specified in Part I.A. shall be collected at the nearest accessible location just prior to discharge and after final treatment, or at an alternate location approved in writing by the Department.

5. Representative Sampling

Sample collection and measurement actions taken as required herein shall be representative of the volume and nature of the monitored discharge and shall be in accordance with the provisions of this Permit.

6. Test Procedures

For the purpose of reporting and compliance, Permittees shall use one of the following procedures:

a. For parameters with an EPA established Minimum Level (ML), report the measured value if the analytical result is at or above the ML and report "0" for values below the ML. Test procedures for the analysis of pollutants shall conform to 40 CFR Part 136, guidelines published pursuant to Section 304(h) of the FWPCA, 33 U.S.C. Section 1314(h), and ADEM Standard Operating Procedures. If more than one method for analysis of a

substance is approved for use, a method having a minimum level lower than the permit limit shall be used. If the minimum level of all methods is higher than the permit limit, the method having the lowest minimum level shall be used and a report of less than the minimum level shall be reported as zero and will constitute compliance, however should EPA approve a method with a lower minimum level during the term of this Permit the Permittee shall use the newly approved method.

b. For pollutant parameters without an established ML, an interim ML may be utilized. The interim ML shall be calculated as 3.18 times the Method Detection Level (MDL) calculated pursuant to 40 CFR Part 136, Appendix B.

Permittees may develop an effluent matrix-specific ML, where an effluent matrix prevents attainment of the established ML. However, a matrix specific ML shall be based upon proper laboratory method and technique. Matrix-specific MLs must be approved by the Department, and may be developed by the Permittee during permit issuance, reissuance, modification, or during compliance schedule.

In either case the measured value should be reported if the analytical result is at or above the ML and "0" reported for values below the ML.

c. For parameters without an EPA established ML, interim ML, or matrix-specific ML, a report of less than the detection limit shall constitute compliance if the detection limit of all analytical methods is higher than the permit limit using the most sensitive EPA approved method. For the purpose of calculating a monthly average, "0" shall be used for values reported less than the detection limit.

The Minimum Level utilized for procedures identified in Parts I.C.6.a. and b. shall be reported on the Permittee's DMR. When an EPA approved test procedure for analysis of a pollutant does not exist, the Director shall approve the procedure to be used.

7. Recording of Results

For each measurement or sample taken pursuant to the requirements of this Permit, the Permittee shall record the following information:

a. The facility name and location, point source number, date, time, and exact place of sampling or measurements;

b. The name(s) of person(s) who obtained the samples or measurements;

c. The dates and times the analyses were performed;

d. The name(s) of the person(s) who performed the analyses;

e. The analytical techniques or methods used including source of method and method number; and

f. The results of all required analyses.

8. Routine Inspection by Permittee

a. The Permittee shall inspect all point sources identified on Page 1 of this Permit and described more fully in the Permittee's application and all treatment or control facilities or systems used by the Permittee to achieve compliance with the terms and conditions of this Permit at least as often as the applicable sampling frequency specified in Part I.C.1 of this Permit.

b. If required by the Director, the Permittee shall maintain a written log for each point source identified on Page 1 of this Permit and described more fully in the Permittee's application in which the Permittee shall record the following information:

(1) The date and time the point source and any associated treatment or control facilities or systems were inspected by the Permittee;

(2) Whether there was a discharge from the point source at the time of inspection by the Permittee;

(3) Whether a sample of the discharge from the point source was collected at the time of inspection by the Permittee;

(4) Whether all associated treatment or control facilities or systems appeared to be in good working order and operating as efficiently as possible, and if not, a description of the problems or deficiencies; and

(5) The name and signature of the person performing the inspection of the point source and associated treatment or control facilities or systems.

9. Records Retention and Production

a. The Permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this Permit, and records of all data used to complete the above reports or the application for this Permit, for a period of at least three (3) years from the date of the sample collection, measurement, report, or application. This period may be extended by request of the Director at any time. If litigation or other enforcement action, under the AWPCA, AEMA, and/or the FWPCA, is ongoing which involves any of the above records, the records shall be kept until the litigation is resolved. Upon the written request of the Director, the Permittee shall provide the Director with a copy of any record required to be retained by this paragraph. Copies of these records should not be submitted unless requested.

b. All records required to be kept for a period of three (3) years shall be kept at the permitted facility or an alternate location approved by the Department in writing and shall be available for inspection.

10. Monitoring Equipment and Instrumentation

All equipment and instrumentation used to determine compliance with the requirements of this Permit shall be installed, maintained, and calibrated in accordance with the manufacturer's instructions or, in the absence of manufacturer's instructions, in accordance with accepted practices. The Permittee shall develop and maintain quality assurance procedures to ensure proper operation and maintenance of all equipment and instrumentation. The quality assurance procedures shall include the proper use, maintenance, and installation, when appropriate, of monitoring equipment at the plant site.

D. DISCHARGE REPORTING REQUIREMENTS

1. Requirements for Reporting of Monitoring

a. Monitoring results obtained during the previous three (3) months shall be summarized for each month on a Discharge Monitoring Report (DMR) Form approved by the Department,

and submitted to the Department so that it is received by the Director no later than the 28th day of the month following the quarterly reporting period (i.e., on the 28th day of January, April, July, and October of each year).

b. The Department utilizes a web-based electronic environmental (E2) reporting system for submittal of DMRs. **Except as allowed by Part I.D.1.c. or d., the Permittee shall submit all DMRs required by Part I.D.1.a. by utilizing the E2 reporting system.** The E2 reporting sytem Permittee Participation Package may be downloaded online at https://e2.adem.alabama.gov/npdes.

c. If the electronic environmental (E2) reporting system is down (i.e. electronic submittal of DMR data is unable to be completed due to technical problems originating with the Department's system; this could include entry/submittal issues with an entire set of DMRs or individual parameters), permittees are not relieved of their obligation to submit DMR data to the Department by the required submittal date. However, if the E2 system is down on the 28th day of the month or is down for an extended period of time as determined by the Department when a DMR is required to be submitted, the facility may submit the data in an alternate manner and format acceptable to the Department. Preapproved alternate acceptable methods include faxing, e-mailing, mailing, or hand-delivery of data such that they are received by the required reporting date. Within five calendar days of the E2 system resuming operation, the Permittee shall enter the data into the E2 reporting system unless an alternate timeframe is approved by the Department. An attachment should be included with the E2 DMR submittal verifying the original submittal date (date of the fax, copy of dated e-mail, or hand-delivery stamped date).

d. The permittee may submit a request to the Department for a temporary electronic reporting waiver for DMR submittals. The waiver request should include the permit number; permittee name; facility/site name; facility address; name, address, and contact information for the responsible official or duly authorized representative; a detailed statement regarding the basis for requesting such a waiver; and the duration for which the waiver is requested. Approved electronic reporting waivers are not transferrable. Permittees with an approved electronic reporting waiver for DMRs may submit hard copy DMRs for the period that the approved electronic reporting waiver request is effective. The Permittee shall submit the Department-approved DMR forms to the address listed in Part I.D.1.j.

e. If the Permittee, using approved analytical methods as specified in Part I.C.6., monitors any discharge from a point source identified on Page 1 of this Permit and describe more fully in the Permittee's application more frequently than required by this Permit; the results of such monitoring shall be included in the calculation and reporting of values on the DMR Form, and the increased frequency shall be indicated on the DMR Form.

f. In the event no discharge from a point source identified on Page 1 of this Permit and described more fully in the Permittee's application occurs during a monitoring period, the Permittee shall report "No Discharge" for such period on the appropriate DMR Form.

g. The Permittee shall report "No Discharge During Quarterly Monitoring Period" on the appropriate DMR Form for each point source receiving pumped discharges pursuant to Part I.C.1.b. provided that no discharge has occurred at any time during the entire quarterly (three month) monitoring period.

h. Each DMR Form submitted by the Permittee to the Department in accordance with Part I.D.1. must be legible and bear an original signature or electronic signature. Photo and electronic copies of the signature are not acceptable and shall not satisfy the reporting requirements of this Permit.

i. All reports and forms required to be submitted by this Permit, the AWPCA, and the Department's rules and regulations, shall be signed by a "responsible official" of the Permittee as defined in ADEM Admin. Code r. 335-6-6-.09 or a "duly authorized representative" of such official as defined in ADEM Admin. Code r. 335-6-6-.09 and shall bear the following 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 properly 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."

j. All DMRs, reports, and forms required to be submitted by this Permit, the AWPCA and the Department's rules and regulations, shall be addressed to:

> Alabama Department of Environmental Management
> Water Division, Mining and Natural Resource Section
> Post Office Box 301463
> Montgomery, Alabama 36130-1463

Certified and Registered Mail shall be addressed to:

> Alabama Department of Environmental Management
> Water Division, Mining and Natural Resource Section
> 1400 Coliseum Boulevard
> Montgomery, Alabama 36110-2059

k. Unless authorized in writing by the Department, approved reporting forms required by this Permit or the Department are not to be altered, and if copied or reproduced, must be consistent in format and identical in content to the ADEM approved form. Unauthorized alteration, falsification, or use of incorrectly reproduced forms constitutes noncompliance with the requirements of this Permit and may significantly delay processing of any request, result in denial of the request, result in permit termination, revocation, suspension, modification, or denial of a permit renewal application, or result in other enforcement action.

l. If this Permit is a reissuance, then the Permittee shall continue to submit DMRs in accordance with the requirements of their previous permit until such time as DMRs are due as discussed in Part I.D.1.

2. Noncompliance Notification

a. The Permittee must notify the Department if, for any reason, the Permittee's discharge:

(1) Potentially threatens human health or welfare;

(2) Potentially threatens fish or aquatic life;

(3) Causes an in-stream water quality criterion to be exceeded;

(4) Does not comply with an applicable toxic pollutant effluent standard or prohibition established under Section 307(a) of the FWPCA, 33 U.S.C. §1317(a);

(5) Contains a quantity of a hazardous substance which has been determined may be harmful to the public health or welfare under Section 311(b)(4) of the FWPCA, 33 U.S.C. §1321(b)(4); or

(6) Exceeds any discharge limitation for an effluent parameter as a result of an unanticipated bypass or upset.

The Permittee shall orally or electronically report any of the above occurrences, describing the circumstances and potential effects of such discharge to the Director within 24-hours after the Permittee becomes aware of the occurrence of such discharge. In addition to the oral or electronic report, the Permittee shall submit to the Director a written report as provided in Part I.D.2.c., no later than five (5) days after becoming aware of the occurrence of such discharge.

b. If for any reason, the Permittee's discharge does not comply with any limitation of this Permit, the Permittee shall submit a written report to the Director as provided in Part I.D.2.c. This report must be submitted with the next Discharge Monitoring Report required to be submitted by Part I.D.1. of this Permit after becoming aware of the occurrence of such noncompliance.

c. Form 401 or 421 must be submitted to the Director in accordance with Parts I.D.2.a. and b. The completed form must document the following information:

(1) A description of the discharge and cause of noncompliance;

(2) The period of noncompliance, including exact dates, times, and duration of the noncompliance. If not corrected by the due date of the written report, then the Permittee is to state the anticipated timeframe that is expected to transpire before the noncompliance is resolved; and

(3) A description of the steps taken and/or being taken to reduce or eliminate the noncomplying discharge and to prevent its recurrence.

3. Reduction, Suspension, or Termination of Monitoring and/or Reporting

a. The Director may, with respect to any point source identified on Page 1 of this Permit and described more fully in the Permittee's application, authorize the Permittee to reduce, suspend, or terminate the monitoring and/or reporting required by this Permit upon the submission of a written request for such reduction, suspension, or termination by the Permittee provided:

(1) All mining, processing, or disturbance in the drainage basin(s) associated with the discharge has ceased and site access is adequately restricted or controlled to preclude unpermitted and unauthorized mining, processing, transportation, or associated operations/activity;

(2) Permanent, perennial vegetation has been re-established on all areas mined or disturbed for at least one year since mining has ceased in the drainage basin(s) associated with the surface discharge, or all areas have been permanently graded such that all drainage is directed back into the mined pit to preclude all surface discharges;

(3) Unless waived in writing by the Department, the Permittee has been granted, in writing, a 100% Bond Release, if applicable, by the Alabama Department of

Industrial Relations and, if applicable, by the Surface Mining Commission for all areas mined or disturbed in the drainage basin(s) associated with the discharge;

(4) Unless waived in writing by the Department, the Permittee has submitted inspection reports prepared and certified by a Professional Engineer (PE) registered in the State of Alabama or a qualified professional under the PE's direction which certify that the facility has been fully reclaimed or that water quality remediation has been achieved. The first inspection must be conducted approximately one year prior to and the second inspection must be conducted within thirty days of the Permittee's request for termination of monitoring and reporting requirements;

(5) All surface effects of the mining activity such as fuel or chemical tanks, preparation plants or equipment, old tools or equipment, junk or debris, etc., must be removed and disposed of according to applicable state and federal regulations;

(6) The Permittee's request for termination of monitoring and reporting requirements contained in this Permit has been supported by monitoring data covering a period of at least six consecutive months or such longer period as is necessary to assure that the data reflect discharges occurring during varying seasonal climatological conditions;

(7) The Permittee has stated in its request that the samples collected and reported in the monitoring data submitted in support of the Permittee's request for monitoring termination or suspension are representative of the discharge and were collected in accordance with all Permit terms and conditions respecting sampling times (e.g., rainfall events) and methods and were analyzed in accordance with all Permit terms and conditions respecting analytical methods and procedures;

(8) The Permittee has certified that during the entire period covered by the monitoring data submitted, no chemical treatment of the discharge was provided;

(9) The Permittee's request has included the certification required by Part I.D.1.e. of this Permit; and

(10) The Permittee has certified to the Director in writing as part of the request, its compliance with (1) through (9) above.

b. It remains the responsibility of the Permittee to comply with the monitoring and reporting requirements of this Permit until written authorization to reduce, suspend, or terminate such monitoring and/or reporting is received by the Permittee from the Director.

E. OTHER REPORTING AND NOTIFICATION REQUIREMENTS

1. Anticipated Noncompliance

The Permittee shall give the Director written advance notice of any planned changes or other circumstances regarding a facility which may result in noncompliance with permit requirements.

2. Termination of Discharge

The Permittee shall notify the Director, in writing, when all discharges from any point source(s) identified on Page 1 of this Permit and described more fully in the Permittee's application have permanently ceased.

3. **Updating Information**

a. The Permittee shall inform the Director of any change in the Permittee's mailing address or telephone number or in the Permittee's designation of a facility contact or officer(s) having the authority and responsibility to prevent and abate violations of the AWPCA, the AEMA, the Department's rules and regulations, and the terms and conditions of this Permit, in writing, no later than ten (10) days after such change. Upon request of the Director, the Permittee shall furnish the Director with an update of any information provided in the permit application.

b. If the Permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Director, it shall promptly submit such facts or information with a written explanation for the mistake and/or omission.

4. **Duty to Provide Information**

a. The Permittee shall furnish to the Director, within a reasonable time, any information which the Director may request to determine whether cause exists for modifying, suspending, terminating, or revoking and reissuing this Permit, in whole or in part, or to determine compliance with this Permit. The Permittee shall also furnish to the Director upon request, copies of records required to be maintained by this Permit.

b. The Permittee shall furnish to the Director upon request, within a reasonable time, available information (name, phone number, address, and site location) which identifies offsite sources of material or natural resources (mineral, ore, or other material such as iron, coal, coke, dirt, chert, shale, clay, sand, gravel, bauxite, rock, stone, etc.) used in its operation or stored at the facility.

F. SCHEDULE OF COMPLIANCE

The Permittee shall achieve compliance with the discharge limitations specified in Part I.A. of this Permit in accordance with the following schedule:

Compliance must be achieved by the effective date of this Permit.

PART II OTHER REQUIREMENTS, RESPONSIBILITIES, AND DUTIES

A. OPERATIONAL AND MANAGEMENT REQUIREMENTS

1. Facilities Operation and Management

The Permittee shall at all times operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the Permittee to achieve compliance with the conditions of this Permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities only when necessary to achieve compliance with the conditions of this Permit.

2. Pollution Abatement and/or Prevention Plan

The Pollution Abatement and/or Prevention (PAP) Plan shall be prepared and certified by a registered Professional Engineer (PE), licensed to practice in the State of Alabama, and shall include at a minimum, the information indicated in ADEM Admin. Code r. 335-6-9-.03 and ADEM Admin. Code ch. 335-6-9 Appendices A and B. The PAP Plan shall become a part of this Permit and all requirements of the PAP Plan shall become requirements of this Permit pursuant to ADEM Admin. Code r. 335-6-9-.05(2).

3. Best Management Practices (BMPs)

a. Unless otherwise authorized in writing by the Director, the Permittee shall provide a means of subsurface withdrawal for any discharge from each point source identified on Page 1 of this Permit and described more fully in the Permittee's application. Notwithstanding the above provision, a means of subsurface withdrawal need not be provided for any discharge caused by a 24-hour precipitation event greater than a 10-year, 24-hour precipitation event.

b. Dilution water shall not be added to achieve compliance with discharge limitations except when the Director has granted prior written authorization for dilution to meet water quality requirements.

c. The Permittee shall minimize the contact of water with overburden, including but not limited to stabilizing disturbed areas through grading, diverting runoff, achieving quick growing stands of temporary vegetation, sealing acid-forming and toxic-forming materials, and maximizing placement of waste materials in back-fill areas.

d. The Permittee shall prepare, submit to the Department for approval, and implement a Best Management Practices (BMPs) Plan for containment of any or all process liquids or solids, in a manner such that these materials do not present a potential for discharge, if so required by the Director. When submitted and approved, the BMP Plan shall become a part of this Permit and all requirements of the BMP Plan shall become requirements of this Permit.

e. Spill Prevention, Control, and Management

The Permittee shall prepare, implement, and maintain a Spill Prevention, Control and Countermeasures (SPCC) Plan acceptable to the Department that is prepared and certified by a Professional Engineer (PE), registered in the State of Alabama, for all onsite petroleum product or other pollutant storage tanks or containers as required by applicable state (ADEM Admin. Code r. 335-6-6-.12(r)) and federal (40 C.F.R. §§112.1-.7) regulations. The Permittee shall implement appropriate structural and/or non-structural spill prevention, control, and/or management sufficient to prevent any spills of pollutants from entering a

ground or surface water of the State or a publicly or privately owned treatment works. Careful consideration should be applied for tanks or containers located near treatment ponds, water bodies, or high traffic areas. In most situations this would require construction of a containment system if the cumulative storage capacity of petroleum products or other pollutants at the facility is greater than 1320 gallons. Any containment system used to implement this requirement shall be constructed of materials compatible with the substance(s) contained and shall prevent the contamination of groundwater. Such containment systems shall be capable of retaining a volume equal to 110 percent of the capacity of the largest tank for which containment is provided. The applicant shall maintain onsite or have readily available flotation booms to contain, and sufficient material to absorb, fuel and chemical spills and leaks. Soil contaminated by chemical spills, oil spills, etc., must be immediately cleaned up or be removed and disposed of in an approved manner.

f. All surface drainage and storm water runoff which originate within or enters the Permittee's premises and which contains any pollutants or other wastes shall be discharged, if at all, from a point source identified on Page 1 of this Permit and described more fully in the Permittee's application.

g. The Permittee shall take all reasonable precautions to prevent any surface drainage or storm water runoff which originates outside the Permittee's premises and which contains any pollutants or other wastes from entering the Permittee's premises. At no time shall the Permittee discharge any such surface drainage or storm water runoff which enters the Permittee's premises if, either alone or in combination with the Permittee's effluent, the discharge would exceed any applicable discharge limitation specified in Part I.A. of this Permit.

4. Biocide Additives

a. The Permittee shall notify the Director in writing not later than sixty (60) days prior to instituting the use of any biocide corrosion inhibitor or chemical additive in any cooling or boiler system(s) regulated by this Permit. Notification is not required for additives that should not reasonably be expected to cause the cooling water or boiler water to exhibit toxicity as determined by analysis of manufacturer's data or testing by the Permittee. Such notification shall include:

(a) Name and general composition of biocide or chemical;

(b) 96-hour median tolerance limit data for organisms representative of the biota of the water(s) which the discharge(s) enter(s);

(c) Quantities to be used;

(d) Frequencies of use;

(e) Proposed discharge concentrations; and

(f) EPA registration number, if applicable.

b. The use of any biocide or chemical additive containing tributyl tin, tributyl tin oxide, zinc, chromium, or related compounds in any cooling or boiler system(s) regulated by the Permit is prohibited except as exempted below. The use of a biocide or additive containing zinc, chromium or related compounds may be used in special circumstances if (1) the permit contains limits for these substances, or (2) the applicant demonstrates during the application process that the use of zinc, chromium or related compounds as a biocide or additive will not pose a reasonable potential to violate the applicable State water quality

standards for these substances. The use of any additive, not identified in this Permit or in the application for this Permit or not exempted from notification under this Permit is prohibited, prior to a determination by the Department that permit modification to control discharge of the additive is not required or prior to issuance of a permit modification controlling discharge of the additive.

5. Facility Identification

The Permittee shall clearly display prior to commencement of any regulated activity and until permit coverage is properly terminated, the name of the Permittee, entire NPDES permit number, facility or site name, and other descriptive information deemed appropriate by the Permittee at an easily accessible location(s) to adequately identify the site, unless approved otherwise in writing by the Department. The Permittee shall repair or replace the sign(s) as necessary upon becoming aware that the identification is missing or is unreadable due to age, vandalism, theft, weather, or other reason.

6. Removed Substances

Solids, sludges, filter backwash, or any other pollutants or other wastes removed in the course of treatment or control of wastewaters shall be disposed of in a manner that complies with all applicable Department rules and regulations.

7. Loss or Failure of Treatment Facilities

Upon the loss or failure of any treatment facility, including but not limited to the loss or failure of the primary source of power of the treatment facility, the Permittee shall, where necessary to maintain compliance with the discharge limitations specified in Part I.A. of this Permit or any other terms or conditions of this Permit, cease, reduce, or otherwise control production and/or discharges until treatment is restored.

8. Duty to Mitigate

The Permittee shall promptly take all reasonable steps to minimize or prevent any violation of this Permit or to mitigate and minimize any adverse impact to waters resulting from noncompliance with any discharge limitation specified in Part I.A. of this Permit, including such accelerated or additional monitoring of the discharge and/or the receiving waterbody as is necessary to determine the nature and impact of the noncomplying discharge.

B. BYPASS AND UPSET

1. Bypass

a. Any bypass is prohibited except as provided in Parts II.B.1.b. and c.

b. A bypass is not prohibited if:

(1) It does not cause any applicable discharge limitation specified in Part I.A. of this Permit to be exceeded;

(2) The discharge resulting from such bypass enters the same receiving water as the discharge from the permitted outfall;

(3) It is necessary for essential maintenance of a treatment or control facility or system to assure efficient operation of such facility or system; and

(4) The Permittee monitors the discharge resulting from such bypass at a frequency, at least daily, sufficient to prove compliance with the discharge limitations specified in Part I.A. of this Permit.

c. A bypass is not prohibited and need not meet the discharge limitations specified in Part I.A. of this Permit if:

(1) It is unavoidable to prevent loss of life, personal injury, or severe property damage;

(2) There are no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if the Permittee could have installed adequate backup equipment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and

(3) The Permittee submits a written request for authorization to bypass to the Director at least ten (10) days, if possible, prior to the anticipated bypass or within 24 hours of an unanticipated bypass, the Permittee is granted such authorization, and Permittee complies with any conditions imposed by the Director to minimize any adverse impact to waters resulting from the bypass.

d. The Permittee has the burden of establishing that each of the conditions of Parts II.B.1.b. or c. have been met to qualify for an exception to the general prohibition against bypassing contained in Part II.B.1.a. and an exemption, where applicable, from the discharge limitations specified in Part I.A. of this Permit.

2. Upset

a. Except as provided in Parts II.B.2.b. and c., a discharge which results from an upset need not meet the applicable discharge limitations specified in Part I.A. of this Permit if:

(1) No later than 24-hours after becoming aware of the occurrence of the upset, the Permittee orally reports the occurrence and circumstances of the upset to the Director; and

(2) No later than five (5) days after becoming aware of the occurrence of the upset, the Permittee furnishes the Director with evidence, including properly signed, contemporaneous operating logs, design drawings, construction certification, maintenance records, weir flow measurements, dated photographs, rain gauge measurements, or other relevant evidence, demonstrating that:

(i) An upset occurred;

(ii) The Permittee can identify the specific cause(s) of the upset;

(iii) The Permittee's treatment facility was being properly operated at the time of the upset; and

(iv) The Permittee promptly took all reasonable steps to minimize any adverse impact to waters resulting from the upset.

b. Notwithstanding the provisions of Part II.B.2.a., a discharge which is an overflow from a treatment facility or system, or an excess discharge from a point source associated with a treatment facility or system and which results from a 24-hour precipitation event larger

than a 10-year, 24-hour precipitation event is not exempted from the discharge limitations specified in Part I.A. of this Permit unless:

(1) The treatment facility or system is designed, constructed, and maintained to contain the maximum volume of wastewater which would be generated by the facility during a 24-hour period without an increase in volume from precipitation and the maximum volume of wastewater resulting from a 10-year, 24-hour precipitation event or to treat the maximum flow associated with these volumes.

In computing the maximum volume of wastewater which would result from a 10-year, 24-hour precipitation event, the volume which would result from all areas contributing runoff to the individual treatment facility must be included (i.e., all runoff that is not diverted from the mining area and runoff which is not diverted from the preparation plant area); and

(2) The Permittee takes all reasonable steps to maintain treatment of the wastewater and minimize the amount of overflow or excess discharge.

c. The Permittee has the burden of establishing that each of the conditions of Parts II.B.2.a. and b. have been met to qualify for an exemption from the discharge limitations specified in Part I.A. of this Permit.

C. PERMIT CONDITIONS AND RESTRICTIONS

1. Prohibition against Discharge from Facilities Not Certified

a. Notwithstanding any other provisions of this Permit, if the permitted facility has not obtained or is not required to obtain a permit from the Alabama Surface Mining Commission, any discharge(s) from any point or nonpoint source(s) from the permitted facility which was not certified to the Department on a form approved by the Department by a professional engineer, registered in the State of Alabama, as being designed, constructed, and in accordance with plans and specifications reviewed by the Department is prohibited; or

b. Notwithstanding any other provisions of this Permit, if the permitted facility has obtained or is required to obtain a permit from the Alabama Surface Mining Commission, any discharge(s) from any point or nonpoint source(s) from the permitted facility which is associated with a treatment facility which was not constructed and certified to the Alabama Surface Mining Commission pursuant to applicable provisions of said Commission's regulations, is prohibited until the Permittee submits to the Alabama Surface Mining Commission, certification by a professional engineer, registered in the State of Alabama, certifying that such facility has been constructed in accordance with plans and specifications approved by the Alabama Surface Mining Commission. This requirement shall not apply to pumped discharges from the underground works of underground coal mines where no surface structure is required by the Alabama Surface Mining Commission, provided the Department is notified in writing of the completion or installation of such facilities, and the pumped discharges will meet permit effluent limits without treatment.

2. Permit Modification, Suspension, Termination, and Revocation

a. This Permit may be modified, suspended, terminated, or revoked and reissued, in whole or in part, during its term for cause, including but not limited to, the following:

(1) The violation of any term or condition of this Permit;

(2) The obtaining of this Permit by misrepresentation or the failure to disclose fully all relevant facts;

(3) The submission of materially false or inaccurate statements or information in the permit application or reports required by the Permit;

(4) The need for a change in any condition that requires either a temporary or permanent reduction or elimination of the permitted discharge;

(5) The existence of any typographical or clerical errors or of any errors in the calculation of discharge limitations;

(6) The existence of material and substantial alterations or additions to the facility or activity generating wastewater which occurred after permit issuance which justify the application of permit conditions that are different or absent in the existing permit;

(7) The threat of the Permittee's discharge on human health or welfare; or

(8) Any other cause allowed by ADEM Admin. Code ch. 335-6-6.

b. The filing of a request by the Permittee for modification, suspension, termination, or revocation and reissuance of this Permit, in whole or in part, does not stay any Permit term or condition of this Permit.

3. Requirements for Metals, Cyanide, and Phenols Monitoring and Reporting

a. For Outfall 002, the Permittee shall collect a sample of the discharge to be analyzed for antimony, arsenic, beryllium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, thallium, zinc, cyanide, and phenols no later six months following the effective date of the Permit. The analyses shall be submitted on EPA Form 2C and received by the Department no later than 28 days following six months after the effective date of the Permit.

b. For Outfall 002, should a discharge not occur within the first six months following the effective date of this Permit, the Permittee shall collect a sample of the discharge to be analyzed for antimony, arsenic, beryllium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, thallium, zinc, cyanide, and phenols no later than six months following the date of the first discharge. The analyses shall be submitted on EPA Form 2C and received by the Department no later than 28 days following six months after the first discharge.

c. Parts II.C.3.a. and b. do not apply for any outfall that is represented by analyses conducted at a substantially similar outfall as indicated on EPA Form 2C or 2D.

d. The Permit shall be reopened, if required, to address any new information resulting from the completion and submittal of the data referenced in Parts II.C.3.a. and b.

4. Automatic Expiration of Permits for New or Increased Discharges

a. Except as provided by ADEM Admin. Code r. 335-6-6-.02(g) and 335-6-6-.05, if this Permit was issued for a new discharger or new source, it shall expire eighteen months after the issuance date if construction has not begun during that eighteen month period.

b. Except as provided by ADEM Admin. Code r. 335-6-6-.02(g) and 335-6-6-.05, if any portion of this Permit was issued or modified to authorize the discharge of increased quantities of pollutants to accommodate the modification of an existing facility, that portion of this Permit shall expire eighteen months after this Permit's issuance if construction of the modification has not begun within eighteen month period.

c. Construction has begun when the owner or operator has:

(1) Begun, or caused to begin as part of a continuous on-site construction program:

(i) Any placement, assembly, or installation of facilities or equipment; or

(ii) Significant site preparation work including clearing, excavation, or removal of existing buildings, structures, or facilities which is necessary for the placement, assembly, or installation of new source facilities or equipment; or

(2) Entered into a binding contractual obligation for the purpose of placement, assembly, or installation of facilities or equipment which are intended to be used in its operation within a reasonable time. Options to purchase or contracts which can be terminated or modified without substantial loss, and contracts for feasibility, engineering, and design studies do not constitute a contractual obligation under the paragraph. The entering into a lease with the State of Alabama for exploration and production of hydrocarbons shall also be considered beginning construction.

d. The automatic expiration of this Permit for new or increased discharges if construction has not begun within the eighteen month period after the issuance of this Permit may be tolled by administrative or judicial stay.

5. Transfer of Permit

This Permit may not be transferred or the name of the Permittee changed without notice to the Director and subsequent modification or revocation and reissuance of this Permit to identify the new Permittee and to incorporate any other changes as may be required under the FWPCA or AWPCA. In the case of a change in name, ownership, or control of the Permittee's premises only, a request for permit modification in a format acceptable to the Director is required at least 30 days prior to the change. In the case of a change in name, ownership, or control of the Permittee's premises accompanied by a change or proposed change in effluent characteristics, a complete permit application is required to be submitted to the Director at least 180 days prior to the change. Whenever the Director is notified of a change in name, ownership, or control, he may decide not to modify the existing Permit and require the submission of a new permit application.

6. Groundwater

Unless authorized on page 1 of this Permit, this Permit does not authorize any discharge to groundwater. Should a threat of groundwater contamination occur, the Director may require groundwater monitoring to properly assess the degree of the problem, and the Director may require that the Permittee undertake measures to abate any such discharge and/or contamination.

7. Property and Other Rights

This Permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to persons or property or invasion of other private rights, trespass, or any infringement of Federal, State, or local laws or regulations, nor does it authorize or

approve the construction of any physical structures or facilities or the undertaking of any work in any waters of the State or of the United States.

D. RESPONSIBILITIES

1. Duty to Comply

a. The Permittee must comply with all terms and conditions of this Permit. Any permit noncompliance constitutes a violation of the AWPCA, AEMA, and the FWPCA and is grounds for enforcement action, for permit termination, revocation and reissuance, suspension, modification, or denial of a permit renewal application.

b. The Permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the FWPCA for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even if this Permit has not yet been modified to incorporate the effluent standard, prohibition or requirement.

c. For any violation(s) of this Permit, the Permittee is subject to a civil penalty as authorized by the AWPCA, the AEMA, the FWPCA, and Code of Alabama 1975, §§22-22A-1 et. seq., as amended, and/or a criminal penalty as authorized by Code of Alabama 1975, §22-22-1 et. seq., as amended.

d. The necessity to halt or reduce production or other activities in order to maintain compliance with the conditions of this Permit shall not be a defense for a Permittee in an enforcement action.

e. Nothing in this Permit shall be construed to preclude or negate the Permittee's responsibility or liability to apply for, obtain, or comply with other ADEM, federal, state, or local government permits, certifications, licenses, or other approvals.

f. The discharge of a pollutant from a source not specifically identified in the permit application for this Permit and not specifically included in the description of an outfall in this Permit is not authorized and shall constitute noncompliance with this Permit.

g. The Permittee shall take all reasonable steps, including cessation of production or other activities, to minimize or prevent any violation of this Permit or to minimize or prevent any adverse impact of any permit violation.

2. Change in Discharge

a. The Permittee shall apply for a permit modification at least 180 days in advance of any facility expansion, production increase, process change, or other action that could result in the discharge of additional pollutants, increase the quantity of a discharged pollutant, or that could result in an additional discharge point. This requirement also applies to pollutants that are not subject to discharge limitations in this Permit. No new or increased discharge may begin until the Director has authorized it by issuance of a permit modification or a reissued permit.

b. The Permittee shall notify the Director as soon as it knows or has reason to believe that it has begun or expects to begin to discharge any pollutant listed as a toxic pollutant pursuant to Section 307(a) of the FWPCA, 33 U.S.C. §1317(a), any substance designated as a hazardous substance pursuant to Section 311(b)(2) of the FWPCA, 33 U.S.C. §1321(b)(2), any waste listed as a hazardous waste pursuant to Code of Alabama 1975, §22-30-10, or any other pollutants or other wastes which is not subject to any discharge limitations specified in Part I.A. of this Permit and was not reported in the Permittee's application, was

reported in the Permittee's application in concentrations or mass rates lower than that which the Permittee expects to begin to be discharged, or has reason to believe has begun to be discharged.

3. Compliance with Toxic or Other Pollutant Effluent Standard or Prohibition

If any applicable effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under Sections 301(b)(2)(C),(D),(E) and (F) of the FWPCA, 33 U.S.C. §1311(b)(2)(C),(D),(E), and (F); 304(b)(2) of the FWPCA, 33 U.S.C. §1314(b)(2); or 307(a) of the FWPCA, 33 U.S.C. §1317(a), for a toxic or other pollutant discharged by the Permittee, and such standard or prohibition is more stringent than any discharge limitation on the pollutant specified in Part I.A. of this Permit or controls a pollutant not limited in Part I.A. of this Permit, this Permit shall be modified to conform to the toxic or other pollutant effluent standard or prohibition and the Permittee shall be notified of such modification. If this Permit has not been modified to conform to the toxic or other pollutant effluent standard or prohibition before the effective date of such standard or prohibition, the authorization to discharge in this Permit shall be void to the extent that any discharge limitation on such pollutant in Part I.A. of this Permit exceeds or is inconsistent with the established toxic or other pollutant effluent standard or prohibition.

4. Compliance with Water Quality Standards and Other Provisions

a. On the basis of the Permittee's application, plans, or other available information, the Department has determined that compliance with the terms and conditions of this Permit will assure compliance with applicable water quality standards. However, this Permit does not relieve the Permittee from compliance with applicable State water quality standards established in ADEM Admin. Code ch. 335-6-10, and does not preclude the Department from taking action as appropriate to address the potential for contravention of applicable State water quality standards which could result from discharges of pollutants from the permitted facility.

b. Compliance with Permit terms and conditions notwithstanding, if the Permittee's discharge(s) from point source(s) identified on Page 1 of this Permit cause(s) or contribute(s) to a condition in contravention of State water quality standards, the Department may require abatement action to be taken by the Permittee, modify the Permit pursuant to the Department's rules and regulations, or both.

c. If the Department determines, on the basis of a notice provided pursuant to Part II.C.2. of this Permit or any investigation, inspection, or sampling, that a modification of this Permit is necessary to assure maintenance of water quality standards or compliance with other provisions of the AWPCA or FWPCA, the Department may require such modification and, in cases of emergency, the Director may prohibit the noticed act until the Permit has been modified.

5. Compliance with Statutes and Rules

a. This Permit has been issued under ADEM Admin. Code div. 335-6. All provisions of this division, that are applicable to this Permit, are hereby made a part of this Permit. A copy of this division may be obtained for a small charge from the Office of General Counsel, Alabama Department of Environmental Management, 1400 Coliseum Blvd., Montgomery, AL 36110-2059.

b. This Permit does not authorize the noncompliance with or violation of any Laws of the State of Alabama or the United States of America or any regulations or rules implementing such laws. FWPCA, 33 U.S.C. Section 1319, and Code of Alabama 1975, Section 22-22-14.

6. **Right of Entry and Inspection**

The Permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law to:

a. Enter upon the Permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of the Permit;

b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Permit;

c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Permit; and

d. Sample or monitor at reasonable times, for the purposes of assuring Permit compliance or as otherwise authorized by the AWPCA, any substances or parameters at any location.

7. **Duty to Reapply or Notify of Intent to Cease Discharge**

a. If the Permittee intends to continue to discharge beyond the expiration date of this Permit, the Permittee shall file with the Department a complete permit application for reissuance of this Permit at least 180 days prior to its expiration.

b. If the Permittee does not desire to continue the discharge(s) allowed by this Permit, the Permittee shall notify the Department at least 180 days prior to expiration of this Permit of the Permittee's intention not to request reissuance of this Permit. This notification must include the information required in Part I.D.4.a. and be signed by an individual meeting the signatory requirements for a permit application as set forth in ADEM Admin. Code r. 335-6-6-.09.

c. Failure of the Permittee to submit to the Department a complete application for reissuance of this Permit at least 180 days prior to the expiration date of this Permit will void the automatic continuation of this Permit provided by ADEM Admin. Code r. 335-6-6-.06; and should this Permit not be reissued for any reason, any discharge after the expiration of this Permit will be an unpermitted discharge.

PART III ADDITIONAL REQUIREMENTS, CONDITIONS, AND LIMITATIONS

A. CIVIL AND CRIMINAL LIABILITY

1. Tampering

Any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained or performed under this Permit shall, upon conviction, be subject to penalties and/or imprisonment as provided by the AWPCA and/or the AEMA.

2. False Statements

Any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this Permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be punished as provided by applicable State and Federal law.

3. Permit Enforcement

This NPDES Permit is a Permit for the purpose of the AWPCA, the AEMA, and the FWPCA, and as such all terms, conditions, or limitations of this Permit are enforceable under State and Federal law.

4. Relief From Liability

Except as provided in Part II.B.1. (Bypass) and Part II.B.2. (Upset), nothing in this Permit shall be construed to relieve the Permittee of civil or criminal liability under the AWPCA, AEMA, or FWPCA for noncompliance with any term or condition of this Permit.

B. OIL AND HAZARDOUS SUBSTANCE LIABILITY

Nothing in this Permit shall be construed to preclude the institution of any legal action or relieve the Permittee from any responsibilities, liabilities, or penalties to which the Permittee is or may be subject to under Section 311 of the FWPCA, 33 U.S.C. §1321.

C. AVAILABILITY OF REPORTS

Except for data determined to be confidential under Code of Alabama 1975, §22-22-9(c), all reports prepared in accordance with the terms of this Permit shall be available for public inspection at the offices of the Department. Effluent data shall not be considered confidential. Knowingly making any false statement in any such report may result in the imposition of criminal penalties as provided for in Section 309 of the FWPCA, 33 U.S.C. §1319, and Code of Alabama 1975, §22-22-14.

D. DEFINITIONS

1. Alabama Environmental Management Act (AEMA) - means Code of Alabama 1975, §§22-22A-1 et. seq., as amended.

2. Alabama Water Pollution Control Act (AWPCA) - means Code of Alabama 1975, §§22-22-1 et. seq., as amended.

3. Average monthly discharge limitation - means the highest allowable average of "daily discharges" over a calendar month, calculated as the sum of all "daily discharges" measured during a calendar

month divided by the number of "daily discharges" measured during that month (zero discharge days shall not be included in the number of "daily discharges" measured and a less than detectable test result shall be treated as a concentration of zero if the most sensitive EPA approved method was used).

4. Arithmetic Mean - means the summation of the individual values of any set of values divided by the number of individual values.

5. BOD - means the five-day measure of the pollutant parameter biochemical oxygen demand

6. Bypass - means the intentional diversion of waste streams from any portion of a treatment facility.

7. CBOD - means the five-day measure of the pollutant parameter carbonaceous biochemical oxygen demand.

8. Controlled Surface Mine Drainage – means any surface mine drainage that is pumped or siphoned from the active mining area.

9. Crushed stone mine - means an area on or beneath land which is mined, quarried, or otherwise disturbed in activity related to the extraction, removal, or recovery of stone from natural or artificial deposits, including active mining, reclamation, and mineral storage areas, for production of crushed stone.

10. Daily discharge - means the discharge of a pollutant measured during any consecutive 24-hour period in accordance with the sample type and analytical methodology specified by the discharge permit.

11. Daily maximum - means the highest value of any individual sample result obtained during a day.

12. Daily minimum - means the lowest value of any individual sample result obtained during a day.

13. Day - means any consecutive 24-hour period.

14. Department - means the Alabama Department of Environmental Management.

15. Director - means the Director of the Department or his authorized representative or designee.

16. Discharge - means "[t]he addition, introduction, leaking, spilling or emitting of any sewage, industrial waste, pollutant or other waste into waters of the state." Code of Alabama 1975, §22-22-1(b)(8).

17. Discharge monitoring report (DMR) - means the form approved by the Director to accomplish monitoring report requirements of an NPDES Permit.

18. DO - means dissolved oxygen.

19. E. coli – means the pollutant parameter Escherichia coli.

20. 8HC - means 8-hour composite sample, including any of the following:

    a. The mixing of at least 5 equal volume samples collected at constant time intervals of not more than 2 hours over a period of not less than 8 hours between the hours of 6:00 a.m. and 6:00 p.m. If the sampling period exceeds 8 hours, sampling may be conducted beyond the 6:00 a.m. to 6:00 p.m. period.

b. A sample continuously collected at a constant rate over period of not less than 8 hours between the hours of 6:00 a.m. and 6:00 p.m. If the sampling period exceeds 8 hours, sampling may be conducted beyond the 6:00 a.m. to 6:00 p.m. period.

21. EPA - means the United States Environmental Protection Agency.

22. Federal Water Pollution Control Act (FWPCA) - means 33 U.S.C. §§1251 et. seq., as amended.

23. Flow – means the total volume of discharge in a 24-hour period.

24. Geometric Mean - means the Nth root of the product of the individual values of any set of values where N is equal to the number of individual values. The geometric mean is equivalent to the antilog of the arithmetic mean of the logarithms of the individual values. For purposes of calculating the geometric mean, values of zero (0) shall be considered one (1).

25. Grab Sample - means a single influent or effluent portion which is not a composite sample. The sample(s) shall be collected at the period(s) most representative of the discharge.

26. Indirect Discharger - means a nondomestic discharger who discharges pollutants to a publicly owned treatment works or a privately owned treatment facility operated by another person.

27. Industrial User - means those industries identified in the Standard Industrial Classification manual, Bureau of the Budget 1967, as amended and supplemented, under the category "Division D – Manufacturing" and such other classes of significant waste producers as, by regulation, the Director deems appropriate.

28. mg/L - means milligrams per liter of discharge.

29. MGD - means million gallons per day.

30. Monthly Average - means, other than for E. coli bacteria, the arithmetic mean of all the composite or grab samples taken for the daily discharges collected in one month period. The monthly average for E. coli bacteria is the geometric mean of daily discharge samples collected in a one month period. The monthly average for flow is the arithmetic mean of all flow measurements taken in a one month period. (Zero discharges shall not be included in the calculation of monthly averages.)

31. New Discharger - means a person owning or operating any building, structure, facility or installation:

a. From which there is or may be a discharge of pollutants;

b. From which the discharge of pollutants did not commence prior to August 13, 1979, and which is not a new source; and

c. Which has never received a final effective NPDES Permit for dischargers at that site.

32. New Source - means:

a. A new source as defined for coal mines by 40 CFR Part 434.11 (1994); and

b. Any building, structure, facility, or installation from which there is or may be a discharge of pollutants, the construction of which commenced:

(1) After promulgation of standards of performance under Section 306 of FWPCA which are applicable to such source; or

(2) After proposal of standards of performance in accordance with Section 306 of the FWPCA which are applicable to such source, but only if the standards are promulgated in accordance with Section 206 within 120 days of their proposal.

33. NH3-N - means the pollutant parameter ammonia, measured as nitrogen.

34. 1-year, 24-hour precipitation event - means the maximum 24-hour precipitation event with a probable recurrence interval of once in one year as defined by the National Weather Service and Technical Paper No. 40, "Rainfall Frequency Atlas of the U.S.," May 1961, or equivalent regional or rainfall probability information developed therefrom.

35. Permit application - means forms and additional information that are required by ADEM Admin. Code r. 335-6-6-.08 and applicable permit fees.

36. Point Source - means "any discernible, confined and discrete conveyance, including but not limited to any pipe, channel, ditch, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, or vessel or other floating craft from which pollutants are or may be discharged." Section 502(14) of the FWPCA, 33 U.S.C. §1362(14).

37. Pollutant - includes for purposes of this Permit, but is not limited to, those pollutants specified in Code of Alabama 1975, §22-22-1(b)(3) and those effluent characteristics, excluding flow, specified in Part I.A. of this Permit.

38. Pollutant of Concern - means those pollutants for which a water body is listed as impaired or which contribute to the listed impairment.

39. Pollution Abatement and/or Prevention Plan (PAP Plan) - mining operations plan developed to minimize impacts on water quality to avoid a contravention of the applicable water quality standards as defined in ADEM Admin. Code r. 335-6-9-.03

40. Preparation, Dry - means a dry preparation facility within which the mineral/material is cleaned, separated, or otherwise processed without use of water or chemical additives before it is shipped to the customer or otherwise utilized. A dry preparation plant includes all ancillary operations and structures necessary to clean, separate, or otherwise process the mineral/material, such as storage areas and loading facilities. Dry preparation also includes minor water spray(s) used solely for dust suppression on equipment and roads to minimize dust emissions.

41. Preparation, Wet - means a wet preparation facility within which the mineral/material is cleaned, separated, or otherwise processed using water or chemical additives before it is shipped to the customer or otherwise utilized. A wet preparation plant includes all ancillary operations and structures necessary to clean, separate, or otherwise process the mineral/material, such as storage areas and loading facilities. Wet preparation also includes mineral extraction/processing by dredging, slurry pumping, etc.

42. Privately Owned Treatment Works - means any devices or system which is used to treat wastes from any facility whose operator is not the operator of the treatment works, and which is not a "POTW".

43. Publicly Owned Treatment Works (POTW) - means a wastewater collection and treatment facility owned by the State, municipality, regional entity composed of two or more municipalities, or another entity created by the State or local authority for the purpose of collecting and treating municipal wastewater.

44. Receiving Stream - means the "waters" receiving a "discharge" from a "point source".

45. Severe property damage - means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural

resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

46. 10-year, 24-hour precipitation event - means that amount of precipitation which occurs during the maximum 24-hour precipitation event with a probable recurrence interval of once in ten years as defined by the National Weather Service and Technical Paper No. 40, "Rainfall Frequency Atlas of the U.S.," May 1961, or equivalent regional or rainfall probability information developed therefrom.

47. TKN - means the pollutant parameter Total Kjeldahl Nitrogen.

48. TON - means the pollutant parameter Total Organic Nitrogen.

49. TRC - means Total Residual Chlorine.

50. TSS – means the pollutant parameter Total Suspended Solids

51. Treatment facility and treatment system - means all structures which contain, convey, and as necessary, chemically or physically treat mine and/or associated preparation plant drainage, which remove pollutants limited by this Permit from such drainage or wastewater. This includes all pipes, channels, ponds, tanks, and all other equipment serving such structures.

52. 24HC - means 24-hour composite sample, including any of the following:

    a. The mixing of at least 12 equal volume samples collected at constant time intervals of not more than 2 hours over a period of 24 hours;

    b. A sample collected over a consecutive 24-hour period using an automatic sampler composite to one sample. As a minimum, samples shall be collected hourly and each shall be no more than one twenty-fourth (1/24) of the total sample volume collected; or

    c. A sample collected over a consecutive 24-hour period using an automatic composite sampler composited proportional to flow.

53. 24-hour precipitation event - means that amount of precipitation which occurs within any 24-hour period.

54. 2-year, 24-hour precipitation event - means the maximum 24-hour precipitation event with a probable recurrence interval of once in two years as defined by the National Weather Service and Technical Paper No. 40, "Rainfall Frequency Atlas of the U.S.," May 1961, or equivalent regional or rainfall probability information developed therefrom.

55. Upset - means an exceptional incident in which there is an unintentional and temporary noncompliance with technology-based permit discharge limitations because of factors beyond the control of the Permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate facilities, lack of preventive maintenance, or careless or improper operation.

56. Waters - means "[a]ll waters of any river, stream, watercourse, pond, lake, coastal, ground or surface water, wholly or partially within the State, natural or artificial. This does not include waters which are entirely confined and retained completely upon the property of a single individual, partnership, or corporation unless such waters are used in interstate commerce." Code of Alabama 1975, §22-22-1(b)(2). "Waters" include all "navigable waters" as defined in §502(7) of the FWPCA, 33 U.S.C. §1362(7), which are within the State of Alabama.

57. Week - means the period beginning at twelve midnight Saturday and ending at twelve midnight the following Saturday.

58. Weekly (7-day and calendar week) Average – is the arithmetic mean of all samples collected during a consecutive 7-day period or calendar week, whichever is applicable. The calendar week is defined as beginning on Sunday and ending on Saturday. Weekly averages shall be calculated for all calendar weeks with Saturdays in the month. If a calendar week overlaps two months (i.e., the Sunday is in one month and the Saturday in the following month), the weekly average calculated for the calendar week shall be included in the data for the month that contains the Saturday.

E. SEVERABILITY

The provisions of this Permit are severable, and if any provision of this Permit or the application of any provision of this Permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this Permit, shall not be affected thereby.

F. PROHIBITIONS AND ACTIVIES NOT AUTHORIZED

1. Discharges from disposal or landfill activities as described in ADEM Admin. Code div. 335-13 are not authorized by this Permit unless specifically approved by the Department.

2. Relocation, diversion, or other alteration of a water of the State is not authorized by this Permit unless specifically approved by the Department.

3. Lime or cement manufacturing or production and discharge of process waters from such manufacturing or production is not authorized by this Permit unless specifically approved by the Department.

4. Concrete or asphalt manufacturing or production and discharge of process waters from such manufacturing or production is not authorized by this Permit unless specifically approved by the Department.

5. The discharge of wastewater, generated by any process, facility, or by any other means not under the operational control of the Permittee or not identified in the application for this Permit or not identified specifically in the description of an outfall in this Permit is not authorized by this Permit.

G. DISCHARGES TO IMPAIRED WATERS

1. This Permit does not authorize new sources or new discharges of pollutants of concern to impaired waters unless consistent with an EPA-approved or EPA-established Total Maximum Daily Load (TMDL) and applicable State law. Impaired waters are those that do not meet applicable water quality standards and are identified on the State of Alabama's §303(d) list or on an EPA-approved or EPA-established TMDL. Pollutants of concern are those pollutants for which the receiving water is listed as impaired or contribute to the listed impairment.

2. Facilities that discharge into a receiving stream which is listed on the State of Alabama's §303(d) list of impaired waters, and with discharges that contain the pollutant(s) for which the waters are impaired, must within six (6) months of the Final §303(d) list approval, document in its BMP plan how the BMPs will control the discharge of the pollutant(s) of concern, and must ensure that there will be no increase of the pollutants of concern. A monitoring plan to assess the effectiveness of the BMPs in achieving the allocations must also be included in the BMP plan.

3. If the facility discharges to impaired waters as described above, it must determine whether a TMDL has been developed and approved or established by EPA for the listed waters. If a TMDL is approved or established during this Permit cycle by EPA for any waters into which the facility discharges, the facility must review the applicable TMDL to see if it includes requirements for

control of any water discharged by the Permittee. Within six (6) months of the date of TMDL approval or establishment, the facility must notify the Department on how it will modify its BMP plan to include best management practices specifically targeted to achieve the allocations prescribed by the TMDL, if necessary. Any revised BMP plans must be submitted to the Department for review. The facility must include in the BMP plan a monitoring component to assess the effectiveness of the BMPs in achieving the allocations.

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
WATER DIVISION

NPDES INDIVIDUAL PERMIT RATIONALE

Company Name:	CEMEX Southeast, LLC
Facility Name:	Demopolis Quarry
County:	Marengo
Permit Number:	AL0027341
Prepared by:	Jasmine Martin
Date:	August 22, 2016
Receiving Waters:	Unnamed Tributary to French Creek Black Warrior River
Permit Coverage:	Chalk, Dry Preparation, Cement Production Plant, Transportation and Storage, and Associated Areas
SIC Code(s):	3241, 1422

The Department has made a tentative determination that the available information is adequate to support reissuance of this permit.

This proposed permit covers discharges from a chalk mine, dry preparation, cement production plant, transportation and storage, and associated areas which discharge to surface waters of the state. Sand and gravel, coa, coke, limestone, gypsum, and iron ore are also present in small quantities

This proposed permit authorizes treated discharges into a stream segment of Black Warrior River that currently has a water quality classification of Fish and Wildlife (F&W) and Swimming and Other Whole Body Water-Contact Sports (ADEM Admin. Code r. 335-6-11). This proposed permit also authorizes treated discharges into a stream segment of an Unnamed Tributary to French Creek that currently has a water quality classification of Fish and Wildlife (F&W) (ADEM Admin. Code r. 335-6-11). If the requirements of the proposed permit are fully implemented, the facility will not discharge pollutants at levels that will cause or contribute to a violation of the F&W and S classifications.

Full compliance with the proposed permit terms and conditions is expected to be protective of instream water quality and ensure consistency with applicable instream State water quality standards (WQS) for the receiving stream.

The instream WQS for pH in streams classified as F&W is 6.0 - 8.5 s.u. per ADEM Admin Code 335-6-10-.09. Information provided in the application indicates Outfall 001-1 will have pumped or controlled discharges and has the potential to discharge chronically. Therefore, a pH of 8.5 s.u. is applied, in lieu of ELG for crushed stone found in 40 CFR 436.22. Discharges from Outfall 002-1 are expected to only occur during rain events therefore, it is the opinion of the Department that discharges with an allowable pH daily maximum of 9.0 s.u. will not adversely affect the in-stream low discharge/stream ratio. The proposed limitations have been shown to be protective of water quality. Regardless, the discharge shall not cause the in-stream pH to deviate more than 1.0

Effluent limitations for Total Suspended Solids (TSS) and Oil and Grease (O&G) are established by Best Professional Judgment (BPJ) and are based on proper implementation of best management practices at the facility. These parameters are indicative of the pollutants typically discharged by a facility covered by this permit and have been shown not to adversely affect water quality. Iron, Manganese, and Sulfate may be present in the discharge as a result of gypsum, iron ore, petroleum coke and coal storage piles, and plant operations exposure to storm water runoff. No limitations are proposed as the levels of these pollutants are expected be controlled through BMP implementation at

the site. Monitoring requirements have been established for Total Dissolved Solids (TDS), Chemical Oxygen Demand (COD), Iron, Manganese, and Sulfate to develop limitations in the future to protect water quality.

The applicant has, in accordance with 40 CFR Part 122.21 and their NPDES permit application, submitted representative effluent data for sulfate, iron, and manganese as part of the application. The Permittee has certified that due to the processes involved in their mining activity the other Part A, B, and C pollutants listed in the EPA Form 2C and 2D that are believed to be not present in the waste stream. The representative effluent data was only obtained from Outfall 001-1 as Outfall 002-1 has not discharged in at least five years. The Department has reviewed available data in ALAWADR, ADEM's water quality database, and found nothing to contradict the data submitted by the applicant.

The Department completed a reasonable potential analysis (RPA) of the discharges based on the laboratory data provided in the application. The RPA indicates whether or not pollutants in treated effluent have the potential to contribute to excursions of Alabama's in-stream WQS. Based on the analytical data submitted by the Applicant, the RPA indicates that there was not a reasonable potential for instream WQS to be exceeded.

Because the representative laboratory data submitted by the Applicant and used by the Department in completing the RPA came from an outfall that does not receive drainage from the coal storage area, Part II.C.3. of the proposed permit requires the submittal of effluent data for metals, cyanide, and total phenols from the Demopolis Quarry within six months of the effective date of the permit. If no discharges occur within the first six months, the data is required to be submitted within six months of the first discharge. The permit may be reopened if necessary to address any new information resulting from the submittal of the new discharge data.

The Pollution Abatement/Prevention (PAP) plan for this facility has been prepared by a professional engineer (PE) registered in the State of Alabama and is designed to ensure reduction of pollutants in the waste stream to a level that, if operated properly, the discharge will not contribute to or cause a violation of applicable State WQS. The proposed permit terms and conditions are predicated on the basis of ensuring a reduction of pollutants in the discharge to a level that reduces the potential of contributing to or causing a violation of applicable State WQS.

In accordance with ADEM Admin. Code r. 335-6-3-.07 the design professional engineer, as evidenced by their seal and/or signature on the application, has accepted full responsibility for the effectiveness of the waste treatment facility to treat the permittee's effluent to meet NPDES permit limitations and requirements, and to fully comply with Alabama's WQS, when such treatment facilities are properly operated.

If there is a reasonable potential that a pollutant present in the treated discharges from a facility could cause or contribute to a contravention of applicable State WQS above numeric or narrative criteria, 40 CFR Part 122 requires the Department to establish effluent limits using calculated water quality criterion, establish effluent limits on a case-by-case basis using criteria established by EPA, or establish effluent limits based on an indicator parameter. Based on available information, potential pollutants discharged from this facility, if discharged within the concentrations allowed by this permit, would not have a reasonable potential to cause or contribute to a contravention of applicable State WQS.

Pursuant to ADEM Admin. Code r. 335-6-6-.12(r) this permit requires the permittee to design and implement a Spill Prevention Control and Countermeasures (SPCC) plan for all stored chemicals, fuels and/or stored pollutants that have the potential to discharge to a water of the State. This plan must meet the minimum engineering requirements as defined in 40 CFR Part 112 and must provide for secondary containment adequate to control a potential spill.

If the requirements of the proposed permit are fully implemented, there is reasonable assurance that the pollutants will not be present in the discharge at levels of concern and/or the facility will not discharge pollutants at levels that will cause or contribute to a violation of applicable State water quality standards in the receiving water.

The applicant is not proposing new or increased discharges into a stream segment or other State water that is included on Alabama's current CWA §303(d) list.

The applicant is not proposing discharges of pollutants to a water of the State with an approved Total Maximum Daily Load (TMDL).

The applicant is not proposing discharges of pollutant(s) to an ADEM identified Tier I water.

The proposed permit does not authorize new or increased discharges of pollutants to a Tier II water. Therefore, the Antidegradation Policy (ADEM Admin. Code 335-6-10-.04) does not apply to this permit.

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
WATER DIVISION

NPDES INDIVIDUAL PERMIT RATIONALE

Company Name: CEMEX Southeast, LLC

Facility Name: Demopolis Quarry

County: Marengo

Permit Number: AL0027341

Prepared by: Jasmine Martin

Date: August 22, 2016

Receiving Waters: Unnamed Tributary to French Creek
Black Warrior River

Permit Coverage: Chalk Mine, Dry Preparation, Cement Production Plant, Transportation and Storage, and Associated Areas

SIC Code(s): 3241, 1422

The Department has made a tentative determination that the available information is adequate to support reissuance of this permit.

This proposed permit covers discharges from a chalk mine, dry preparation, cement production plant, transportation and storage, and associated areas which discharge to surface waters of the state. Sand and gravel, coal, coke, limestone, gypsum, and iron ore are also present in small quantities

This proposed permit authorizes treated discharges into a stream segment of Black Warrior River that currently has a water quality classification of Fish and Wildlife (F&W) and Swimming and Other Whole Body Water-Contact Sports (ADEM Admin. Code r. 335-6-11). This proposed permit also authorizes treated discharges into a stream segment of an Unnamed Tributary to French Creek that currently has a water quality classification of Fish and Wildlife (F&W) (ADEM Admin. Code r. 335-6-11). If the requirements of the proposed permit are fully implemented, the facility will not discharge pollutants at levels that will cause or contribute to a violation of the F&W and S classifications.

Full compliance with the proposed permit terms and conditions is expected to be protective of instream water quality and ensure consistency with applicable instream State water quality standards (WQS) for the receiving stream.

The instream WQS for pH in streams classified as F&W is 6.0 – 8.5 s.u. per ADEM Admin Code 335-6-11. Information provided in the application indicates Outfall 001-1 will have pumped or controlled discharges and has the potential to discharge chronically. Therefore, a pH of 8.5 s.u. is applied, in lieu of ELG for crushed stone found in 40 CFR 436.22. Discharges from Outfall 002-1 are expected to only occur during rain events therefore, it is the opinion of the Department that discharges with an allowable pH daily maximum of 9.0 s.u. will not adversely affect the in-stream low discharge/stream ratio. The proposed limitations have been shown to be protective of water quality. Regardless, the discharge shall not cause the in-stream pH to deviate more than 1.0

Effluent limitations for Total Suspended Solids (TSS) and Oil and Grease (O&G) are established by Best Professional Judgment (BPJ) and are based on proper implementation of best management practices at the facility. These parameters are indicative of the pollutants typically discharged by a facility covered by this permit and have been shown not to adversely affect water quality. Iron, Manganese, and Sulfate may be present in the discharge as a result of gypsum, iron ore, petroleum coke and coal storage piles, and plant operations exposure to storm water runoff. No limitations are proposed as the levels of these pollutants are expected be controlled through BMP implementation at

the site. Monitoring requirements have been established for Total Dissolved Solids (TDS), Chemical Oxygen Demand (COD), Iron, Manganese, and Sulfate to develop limitations in the future to protect water quality.

The applicant has, in accordance with 40 CFR Part 122.21 and their NPDES permit application, submitted representative effluent data for sulfate, iron, and manganese as part of the application. The Permittee has certified that due to the processes involved in their mining activity the other Part A, B, and C pollutants listed in the EPA Form 2C and 2D that are believed to be not present in the waste stream. The representative effluent data was only obtained from Outfall 001-1 as Outfall 002-1 has not discharged in at least five years. The Department has reviewed available data in ALAWADR, ADEM's water quality database, and found nothing to contradict the data submitted by the applicant.

The Department completed a reasonable potential analysis (RPA) of the discharge(s) based on laboratory data provided in the Permittee's application. The RPA indicates whether or not pollutants in treated effluent have the potential to contribute to excursions of Alabama's in-stream water quality standard. Based on the analytical data submitted by the Permittee, the RPA indicates that there was no reasonable potential for instream water quality standards to be exceeded.

Because the representative laboratory data submitted by the Applicant and used by the Department in completing the RPA came from Outfall 001 that does not receive drainage from the coal storage area, Part II.C.3. of the proposed permit requires the submittal of effluent data for metals, cyanide, and total phenols from Outfall 002 at the Demopolis Quarry within six months of the effective date of the permit. If no discharges occur within the first six months, the data is required to be submitted within six months of the first discharge. The permit may be reopened if necessary to address any new information resulting from the submittal of the new discharge data.

The Pollution Abatement/Prevention (PAP) plan for this facility has been prepared by a professional engineer (PE) registered in the State of Alabama and is designed to ensure reduction of pollutants in the waste stream to a level that, if operated properly, the discharge will not contribute to or cause a violation of applicable State WQS. The proposed permit terms and conditions are predicated on the basis of ensuring a reduction of pollutants in the discharge to a level that reduces the potential of contributing to or causing a violation of applicable State WQS.

In accordance with ADEM Admin. Code r. 335-6-3-.07 the design professional engineer, as evidenced by their seal and/or signature on the application, has accepted full responsibility for the effectiveness of the waste treatment facility to treat the permittee's effluent to meet NPDES permit limitations and requirements, and to fully comply with Alabama's WQS, when such treatment facilities are properly operated.

If there is a reasonable potential that a pollutant present in the treated discharges from a facility could cause or contribute to a contravention of applicable State WQS above numeric or narrative criteria, 40 CFR Part 122 requires the Department to establish effluent limits using calculated water quality criterion, establish effluent limits on a case-by-case basis using criteria established by EPA, or establish effluent limits based on an indicator parameter. Based on available information, potential pollutants discharged from this facility, if discharged within the concentrations allowed by this permit, would not have a reasonable potential to cause or contribute to a contravention of applicable State WQS.

Pursuant to ADEM Admin. Code r. 335-6-6-.12(r) this permit requires the permittee to design and implement a Spill Prevention Control and Countermeasures (SPCC) plan for all stored chemicals, fuels and/or stored pollutants that have the potential to discharge to a water of the State. This plan must meet the minimum engineering requirements as defined in 40 CFR Part 112 and must provide for secondary containment adequate to control a potential spill.

If the requirements of the proposed permit are fully implemented, there is reasonable assurance that the pollutants will not be present in the discharge at levels of concern and/or the facility will not discharge pollutants at levels that will cause or contribute to a violation of applicable State water quality standards in the receiving water.

The applicant is not proposing new or increased discharges into a stream segment or other State water that is included on Alabama's current CWA §303(d) list.

The applicant is not proposing discharges of pollutants to a water of the State with an approved Total Maximum Daily Load (TMDL).

The applicant is not proposing discharges of pollutant(s) to an ADEM identified Tier I water.

The proposed permit does not authorize new or increased discharges of pollutants to a Tier II water. Therefore, the Antidegradation Policy (ADEM Admin. Code 335-6-10-.04) does not apply to this permit.

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (ADEM)
NPDES INDIVIDUAL PERMIT APPLICATION

SURFACE & UNDERGROUND MINERAL & ORE OR MINERAL PRODUCT MINING, QUARRYING, EXCAVATION, BORROWING, HYDRAULIC MINING, STORAGE, PROCESSING, PREPARATION, RECOVERY, HANDLING, LOADING, STORING, OR DISPOSING ACTIVITIES AND ASSOCIATED AREAS INCLUDING PRE-MINING SITE DEVELOPMENT, CONSTRUCTION, EXCAVATION, CLEARING, DISTURBANCE, RECLAMATION, AND ASSOCIATED AREAS R#16-37588 J.Martin $5820.00

INSTRUCTIONS: COMPLETE ALL QUESTIONS. RESPOND WITH "N/A" AS APPROPRIATE. INCOMPLETE OR INCORRECT ANSWERS OR MISSING SIGNATURES WILL DELAY PROCESSING. ATTACH ADDITIONAL COMMENTS OR INFORMATION AS NEEDED. IF SPACE IS INSUFFICIENT, CONTINUE ON AN ATTACHED SHEET(S) AS NECESSARY. COMMENCEMENT OF ACTIVITIES APPLIED FOR AS DETAILED IN THIS APPLICATION ARE NOT AUTHORIZED UNTIL PERMIT COVERAGE HAS BEEN ISSUED BY THE DEPARTMENT.

PLEASE TYPE OR PRINT IN INK ONLY.

PURPOSE OF THIS APPLICATION

☐ Initial Permit Application for New Facility ☐ Initial Permit Application for Existing Facility (e.g. facility previously permitted less than 5 acres)
☐ Modification of Existing Permit ☑ Reissuance of Existing Permit ☐ Reissuance & Modification Existing Permit
☐ Reissuance & Transfer of Existing Permit ☐ Revocation and Reissuance of Existing Permit ☐ Other _____

I. GENERAL INFORMATION

NPDES Permit Number (Not applicable if initial permit application):	County(s) in which Facility is Located:
AL 0027341	Marengo

RECEIVED APR 14 2016 MANAGEMENT WATER BRANCH

Company/Permittee Name:			Facility Name (*e.g.*, Mine Name, Pit Name, *etc.*):		
CEMEX Southeast, LLC			Demopolis Quarry		
Mailing Address of Company/Permittee:			Physical Address of Facility (as near as possible to entrance):		
P. O. Box 839			1617 Arcola Road		
City:	State:	Zip:	City:	State:	Zip:
Demopolis	AL	36732	Demopolis	AL	36732
Permittee Phone Number:	Permittee Fax Number:		Latitude and Longitude of entrance:		
(334) 289-4400	(334) 289-1818		N 32 30.609' W 87 48.924'		

Responsible Official (as described on page 13 of this application):			Responsible Official Title:		
Alejandro Perez			Plant Manager		
Mailing Address of Responsible Official:			Physical Address of Responsible Official:		
P. O. Box 839			1617 Arcola Road		
City:	State:	Zip:	City:	State:	Zip:
Demopolis	AL	36732	Demopolis	AL	36732
Phone Number of Responsible Official:	Fax Number of Responsible Official:		Email Address of Responsible Official:		
(334) 289-4400	(334) 289-1818		alehandro.perez@cemex.com		

Facility Contact:			Facility Contact Title:	
Mike Gandy			Environmental Manager	
Physical Address of Facility Contact:			Phone Number of Facility Contact:	Fax Number of Facility Contact:
1617 Arcola Road			(334) 287-3537	(334) 289-1818
City:	State:	Zip:	Email Address of Facility Contact:	
Demopolis	AL	36732	mike.gandy@cemex.com	

II. MEMBER INFORMATION

A. Identify the name, title/position, and unless waived in writing by the Department, the residence address of every officer, general partner, LLP partner, LLC member, investor, director, or person performing a function similar to a director, of the applicant, and each person who is the record or beneficial owner of 10 percent or more of any class of voting stock of the applicant, or any other responsible official(s) of the applicant with legal or decision making responsibility or authority for the facility:

Name:	Title/Position:	Physical Address of Residence (P.O. Box is Not Acceptable)
See Attachment "A"		

B. Other than the "Company/Permittee" listed in Part I., identify the name of each corporation, partnership, association, and single proprietorship for which any individual identified in Part II.A. is or was an officer, general partner, LLP partner, LLC member, investor, director, or individual performing a function similar to a director, or principal (10% or more) stockholder, that had an Alabama NPDES permit at any time during the five year (60 month) period immediately preceding the date on which this form is signed:

Name of Corporation, Partnership, Association, or Single Proprietorship:	Name of Individual from Part II.A.:	Title/Position in Corporation, Partnership, Association, or Single Proprietorship:
None		

III. LEGAL STRUCTURE OF APPLICANT

A. Indicate the legal structure of the "Company/Permittee" listed in Part I:

☐ Corporation ☐ Association ☐ Individual ☐ Single Proprietorship ☐ Partnership ☐ LLP ☑ LLC

☐ Government Agency: _____ ☐ Other: _____

B. If not an individual or single proprietorship, is the "Company/Permittee" listed in Part I. properly registered and in good standing with the Alabama Secretary of State's Office? (If the answer is "No," attach a letter of explanation.) ☑ Yes ☐ No

C. Parent Corporation and Subsidiary Corporations of Applicant, if any: Cemex, Inc.

D. Land Owner(s): CEMEX Southeast, LLC

E. Mining Sub-contractor(s)/Operator(s), if known: none

IV. COMPLIANCE HISTORY

A. Has the applicant ever had any of the following:

	Yes	No
(1) An Alabama NPDES, SID, or UIC permit suspended or terminated?	☐	☑
(2) An Alabama license to mine suspended or revoked?	☐	☑
(3) An Alabama or federal mining permit suspended or terminated?	☐	☑
(4) A reclamation bond, or similar security deposited in lieu of a bond, or portion thereof, forfeited?	☐	☑
(5) A bond or similar security deposited in lieu of a bond, or portion thereof, the purpose of which was to secure compliance with any requirement of the Alabama Water Improvement Commission or Alabama Department of Environmental Management, forfeited?	☐	☑

(If the response to any item of Part IV.A. is "Yes," attach a letter of explanation.)

B. Identify every Warning Letter, Notice of Violation (NOV), Administrative Action, or litigation issued to the applicant, parent corporation, subsidiary, general partner, LLP partner, or LLC member and filed by ADEM or EPA during the three year (36 months) period preceding the date on which this form is signed. Indicate the date of issuance, briefly describe alleged violations, list actions (if any) to abate alleged violations, and indicate date of final resolution:

Our records do not indicate any enforcement action for Cemex Southeast LLC

V. OTHER PERMITS/AUTHORIZATIONS

A. List any other NPDES or other environmental permits (including permit numbers), authorizations, or certifications that have been applied for or issued within the State by ADEM, EPA, Alabama Surface Mining Commission (ASMC), Alabama Department of Industrial Relations (ADIR), or other agency, to the applicant, parent corporation, subsidiary, or LLC member for this facility whether presently effective, expired, suspended, revoked, or terminated:

NPDES AL 0027341,Tire Permit S0000011271,105-0002 (Air Permits), 46-04 (Landfill Permit)

B. List any other NPDES or other ADEM permits (including permit numbers), authorizations, or certifications that have been applied for or issued within the State by ADEM, EPA, ASMC, or ADIR, to the applicant, parent corporation, subsidiary, or LLC member for other facilities whether presently effective, expired, suspended, revoked, or terminated:

NPDES AL 0060615 St Stephens Quarry 712-0030-2002 Decatur Terminal 4-07-0210-01 Birmingham Terminal

VI. PROPOSED SCHEDULE

Anticipated Activity Commencement Date: 1977 Anticipated Activity Completion Date: 2050

VII. ACTIVITY DESCRIPTION & INFORMATION

A. Proposed Total Area of the Permitted Site: 855.6 acres Proposed Total Disturbed Area of the Permitted Site: 375.25 acres

B. Township(s), Range(s), Section(s): T 18N, R3E, Sections 19, 20, 21, 28, 29, & 30

C. Detailed Directions to Site: From Hwy 80 W, Rt. On Pettus St., Rt. On McNamara, RT. On Arcola Rd. to plant entrance

D. Is/ will this facility:

		Yes	No
(1)	an existing facility which currently results in discharges to State waters?	☑	☐
(2)	a proposed facility which will result in a discharge to State waters?	☐	☑
(3)	be located within any 100-year flood plain?	☐	☑
(4)	discharge to Municipal Separate Storm Sewer?	☐	☑
(5)	discharge to waters of or be located in the Coastal Zone?	☐	☑
(6)	need/have ADEM UIC permit coverage?	☐	☑
(7)	be located on Indian/ historically significant lands?	☐	☑
(8)	need/have ADEM SID permit coverage?	☐	☑
(9)	need/have ASMC permit coverage?	☐	☑
(10)	need/have ADIR permit coverage?	☐	☑
(11)	generate, treat, store, or dispose of hazardous or toxic waste ? (If "Yes," attach a detailed explanation.)	☑	☐
(12)	be located in or discharge to a Public Water Supply (PWS) watershed or be located within ½ mile of any PWS well?	☐	☑

VIII. MATERIAL TO BE REMOVED, PROCESSED, OR TRANSLOADED

List relative percentages of the mineral(s) or mineral product(s) that are proposed to be and/or are currently mined, quarried, recovered, prepared, processed, handled, transloaded, or disposed at the facility. **If more than one mineral is to be mined, list the relative percentages of each mineral by tonnage for the life of the mine.**

____Dirt &/or Chert	3% ____Sand &/or Gravel	88% ____Chalk	____Talc	____Crushed rock (other)
____Bentonite	____Industrial Sand	____Marble	____Shale &/or Common Clay	____Sandstone
2% ____Coal	____Kaolin	____Coal fines/refuse recovery	2% ____Coal product, coke	____Slag, Red Rock
____Fire clay	1% ____Iron ore	____Dimension stone	____Phosphate rock	____Granite
____Bauxitic Clay	____Bauxite Ore	2% ____Limestone, crushed limestone and dolomite		
____ Gold, other trace minerals:____			2% ____Other: Gypsum	
____Other:____			____Other:____	
____Other:____			____Other:____	

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AUG 22 2016
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IX. PROPOSED ACTIVITY TO BE CONDUCTED

A. Type(s) of activity presently conducted at applicant's existing facility or proposed to be conducted at facility (check all that apply):

- ☑ Surface mining
- ☐ Underground mining
- ☑ Quarrying
- ☐ Auger mining
- ☐ Hydraulic mining
- ☐ Within-bank mining
- ☐ Solution mining
- ☑ Mineral storing
- ☐ Lime production
- ☐ Cement production
- ☐ Synthetic fuel production
- ☑ Alternative fuels operation
- ☑ Mineral dry processing (crushing & screening)
- ☐ Mineral wet preparation
- ☐ Other beneficiation & manufacturing operations
- ☑ Mineral loading
- ☐ Chemical processing or leaching
- ☐ Construction related temporary borrow pits/areas
- ☐ Mineral transportation ___rail ___barge ___truck
- ☐ Preparation plant waste recovery
- ☐ Hydraulic mining, dredging, instream or between stream-bank mining
- ☐ Grading, clearing, grubbing, *etc.*
- ☐ Pre-construction ponded water removal
- ☑ Excavation
- ☐ Pre-mining logging or land clearing
- ☐ Waterbody relocation or other alteration
- ☐ Creek/stream crossings
- ☑ Onsite construction debris or equipment storage/disposal
- ☐ Onsite mining debris or equipment storage/disposal
- ☐ Reclamation of disturbed areas
- ☑ Chemicals used in process or wastewater treatment (coagulant, biocide, etc.)
- ☐ Adjacent/associated asphalt/concrete plant(s)
- ☐ Low volume sewage treatment package plant
- ☐ Other: Manufacture of Portland Cement

B. Primary SIC Code: 3241 Description: Manufacture of Portland Cement

Secondary SIC Code(s): 1429 Description: Crushed and Broken Limestone

C. Narrative Description of the Activity: Selma chalk is excavated and transported to a bleeding shed than pulverized and mixed with purchased materials. Then fed into a rotary kiln, pulverized & mixed w/ material to make cement.

X. FUEL – CHEMICAL HANDLING, STORAGE & SPILL PREVENTION CONTROL & COUNTERMEASURES (SPCC) PLAN

A. Will fuels, chemicals, compounds, or liquid waste be used or stored onsite? ☑ Yes ☐ No

B. If "Yes," identify the fuel, chemicals, compounds, or liquid waste and indicate the volume of each:

Volume	*Contents*	*Volume*	*Contents*	*Volume*	*Contents*
16000 gallons	Diesel	7500 gallons	Grinding Aid	500 gallons	Gasoline
1700 gallons	Waste Oil	12000 gallons	Lube Oil	55 gallons	Waste Drum

C. If "Yes," a detailed SPCC Plan with acceptable format and content, including diagrams, must be attached to application in accordance with ADEM Admin. Code R. 335-6-6-.12(r). Unless waived in writing by the Department on a programmatic, categorical, or individual compound/chemical basis, Material Safety Data Sheets (MSDS) for chemicals/compounds used or proposed to be used at the facility must be included in the SPCC Plan submittal.

XI. POLLUTION ABATEMENT & PREVENTION (PAP) PLAN

A. For non-coal mining facilities, a PAP Plan in accordance with ADEM Admin. Code r. 335-6-9-.03 has been completed and is attached as part of this application. ☑ Yes ☐ No

B. For coal mining facilities, a detailed PAP Plan has been submitted to ASMC according to submittal procedures for ASMC regulated facilities. ☐ Yes ☑ No

(1) If "Yes" to Part XI.B., provide the date that the PAP Plan was submitted to ASMC: _____

(2) If "No" to Part XI.B., provide the anticipated date that the PAP Plan will be submitted to ASMC: _____

XII. ASMC REGULATED ENTITIES

A. Is this coal mining operation regulated by ASMC? ☐ Yes ☑ No

B. If "Yes", provide copies as part of this application of any pre-mining hydrologic sampling reports and Hydrologic Monitoring Reports which have been submitted to ASMC within the 36 months prior to submittal of this application.

XIII. TOPOGRAPHIC MAP SUBMITTAL

Attach to this application a 7.5 minute series U.S.G.S. topographic map(s) or equivalent map(s) no larger than, or folded to a size of 8.5 by 11 inches (several pages may be necessary), of the area extending to at least one mile beyond property boundaries. The topographic or equivalent map(s) must include a caption indicating the name of the topographic map, name of the applicant, facility name, county, and township, range, & section(s) where the facility is located. Unless approved in advance by the Department, the topographic or equivalent map(s), at a minimum, must show:

(a) An accurate outline of the area to be covered by the permit
(b) An outline of the facility
(c) All existing and proposed disturbed areas
(d) Location of discharge areas
(e) Proposed and existing discharge points
(f) Perennial, intermittent, and ephemeral streams
(g) Lakes, springs, water wells, wetlands
(h) All known facility dirt/improved access/haul roads
(i) All surrounding unimproved/improved roads
(j) High-tension power lines and railroad tracks
(k) Buildings and structures, including fuel/water tanks
(l) Contour lines, township-range-section lines
(m) Drainage patterns, swales, washes
(n) All drainage conveyance/treatment structures (ditches, berms, etc.)
(o) Any other pertinent or significant feature

XIV. DETAILED FACILITY MAP SUBMITTAL

Attach to this application a 1:500 scale or better, detailed auto-CAD map(s) or equivalent map(s) no larger than, or folded to a size of 8.5 by 11 inches (several pages may be necessary), of the facility. The facility map(s) must include a caption indicating the name of the facility, name of the applicant, facility name, county, and township, range, & section(s) where the facility is located. Unless approved in advance by the Department, the facility or equivalent map(s), at a minimum, must show:

(a) Information listed in Item XII (a) – (o) above
(b) If noncoal, detailed, planned mining progression
(c) If noncoal, location of topsoil storage areas
(d) Location of ASMC bonded increments (if applicable)
(e) Location of mining or pond cleanout waste storage/disposal areas
(f) Other information relevant to facility or operation
(g) Location of facility sign showing Permittee name, facility name, and NPDES Number

XV. RECEIVING WATERS

List the requested permit action for each outfall (issue, reissue, add, delete, move, etc.), outfall designation including denoting "E" for existing and "P" for proposed outfalls, name of receiving water(s), whether or not the stream is included in a TMDL, latitude and longitude (to seconds) of location(s) of each discharge point, distance of receiving water from outfall in feet, number of disturbed acres, the number of drainage acres which will drain through each treatment system, outfall, or BMP, and if the outfall discharges to an ADEM listed CWA Section 303(d) waterbody segment at the time of application submittal.

Action	Outfall E/P	Receiving Water	Latitude	Longitude	Distance to Rec. Water	Disturbed Acres	Drainage Acres	ADEM WUC	303(d) Segment (Y/N)	TMDL Segment* (Y/N)
None	001E	UT French Creek	32d31m00s	87d48m27s	200'	375	400+	F&W	N	N
None	002E	Black Warrior River	32d31m12s	87d48m47s	20'	0.25	0.5	S/F&W	N	N

*If a TMDL Compliance Schedule is requested, the following should be attached as supporting documentation: (1) Justification for the requested Compliance Schedule (e.g. time for design and installation of control equipment, etc.); (2) Monitoring results for the pollutant(s) of concern which have not previously been submitted to the Department (sample collection dates, analytical results (mass and concentration), methods utilized, MDL/ML, etc. should be reported as available); (3) Requested interim limitations, if applicable; (4) Date of final compliance with the TMDL limitations; and (5) Any other additional information available to support the requested compliance schedule.

XVI. DISCHARGE CHARACTERIZATION

A. Modified EPA Form 2C Submittal

☑ Yes, pursuant to 40 CFR 122.21, the applicant requests a waiver for completion of the modified EPA Form 2C and certifies that the operating facility will discharge treated stormwater only, unless waived in writing by the Department on a programmatic, categorical, or individual compound/chemical basis that chemical/compound additives are not used, and that there are no process, manufacturing, or other industrial operations or wastewaters, including but not limited to lime or cement production, synfuel operations, *etc.*, and that coal and coal products are not mined nor stored onsite.

☐ No, the applicant does not request a waiver and a complete modified EPA Form 2C is attached.

B. The applicant is required to supply the following information separately for every P or E outfall. If necessary, attach extra sheets. List expected average daily discharge flow rate in cfs and gpd, frequency of discharge in hours per day and days per month, average summer and winter temperature of discharge(s) in degrees centigrade (C), average pH in standard units, average daily discharge in pounds per day of BOD_5, Total Suspended Solids, Total Iron, Total Manganese, and Total Aluminum (if bauxite or bauxitic clay):

Outfall E/P	Information Source - # of Samples	Flow cfs	Flow gpd	Frequency hours/day	Frequency days/mth	Sum/Win Temp, °C	pH s.u.	BOD_5 lbs/day	TSS lbs/day	Tot Fe lbs/day	Tot Mn lbs/day	Tot Al lbs/day
001E	DMR-26	1.78	1.15m	precip driven	precip driven	26-7	8	23.98	202.5	1.05	<0.48	
002E	BPE	0.52	336K	precip driven	precip driven	26-7	7	7	60	0.3	<0.15	

C. The applicant is required to supply the following information separately for every P or E outfall. If necessary, attach extra sheets. Identify and list expected average daily discharge in pounds per day of any other pollutant(s) listed in EPA Form 2C, Item V – Intake And Effluent Characteristics, Parts A, B, & C that are not referenced in Part XV.B., that you know is present or have reason to believe could be present in the discharge(s) at levels of concern:

Outfall E/P	Reason Believed Present	Information Source - # of Samples										
			lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day
N/A												

XVII. DISCHARGE STRUCTURE DESCRIPTION & POLLUTANT SOURCE

The applicant is required to supply outfall number(s) as it appears on the map(s) required by this application [if this application is for a modification to an existing permit do not change the numbering sequence of the permitted outfalls], describe each, (*e.g.*, pipe, spillway, channel, tunnel, conduit, well, discrete fissure, or container), and identify the origin of pollutants. The response must be precise for each outfall. If the discharge of pollutants from any outfall is the result of commingling of waste streams from different origins, each origin must be completely described.

Outfall	Discharge structure Description	Description of Origin Of pollutants	Surface Discharge	Groundwater Discharge	Wet Prep -Other Production Plant	Pumped or Controlled Discharge	Low Volume STP	Other
001E	Pipe & Channel	(7)	X			X		
002E	Pond spill pipe	(10)	X					

Origin of Pollutants - typical examples: **(1)** Discharge of drainage from the underground workings of an underground coal mine, **(2)** Discharge of drainage from a coal surface mine, **(3)** Discharge of drainage from a coal preparation plant and associated areas, **(4)** Discharge of process wastewater from a gravel-washing plant, **(5)** Discharge of wastewater from an existing source coal preparation plant, **(6)** Discharge of drainage from a sand and gravel pit, **(7)** Pumped discharge from a limestone quarry, **(8)** Controlled surface mine drainage (pumped or siphoned), **(9)** Discharge of drainage from mine reclamation, **(10) Other**: Surface discharge at coal barge unloading facility- inactive.

XVIII. PROPOSED NEW OR INCREASED DISCHARGES

A. Pursuant to ADEM Admin. Code Chapter 335-6-10-.12(9), responses to the following questions must be provided by the applicant requesting NPDES permit coverage for new or expanded discharges of pollutant(s) to Tier 2 waters (except discharges eligible for coverage under general permits). As part of the permit application review process, the Department is required to consider, based on the applicant's demonstration, whether the proposed new or increased discharge to Tier 2 waters is necessary for important economic or social development in the area in which the waters are located.

☐ Yes. New/increased discharges of pollutant(s) or discharge locations to Tier 2 waters are proposed.

☑ No. New/increased discharges of pollutants(s) or discharge locations to Tier 2 waters are not proposed.

B. If "Yes," complete Items 1 through 6 of this Part (XVII.B.), ADEM Form 311-Alternative Analysis, and either ADEM Form 312 or ADEM Form 313-Calculation of Total Annualized Project Costs (Public-Section or Private-Sector, whichever is applicable). ADEM Form 312 or ADEM Form 313, whichever, is applicable, should be completed for each technically feasible alternative evaluated on ADEM Form 311. ADEM Forms can be found on the Department's website at www.adem.alabama.gov/DeptForms. **Attach additional sheets/documentation and supporting information as needed.**

(1) What environmental or public health problem will the discharge be correcting?

(2) How much will the discharger be increasing employment (at its existing facility or as a result of locating a new facility)?

(3) How much reduction in employment will the discharger be avoiding?

(4) How much additional state or local taxes will the discharger be paying?

(5) What public service to the community will the discharger be providing?

(6) What economic or social benefit will the discharger be providing to the community?

XIX. POLLUTION ABATEMENT PLAN (PAP) SUMMARY

Outfall(s): 001E & 002E

Y	N	N/A	
✓			Runoff from all areas of disturbance is controlled
✓			Drainage from pit area, stockpiles, and spoil areas directed to a sedimentation pond
✓			Sedimentation basin at least 0.25 acre/feet for every acre of disturbed drainage
✓			Sedimentation basin cleaned out when sediment accumulation is 60% of design capacity
✓			Trees, boulders, and other obstructions removed from pond during initial construction
✓			Width of top of dam greater than 12'
✓			Side slopes of dam no steeper than 3:1
✓			Cutoff trench at least 8' wide
✓			Side slopes of cutoff trench no less than 1:1
✓			Cutoff trench located along the centerline of the dam
✓			Cutoff trench extends at least 2' into bedrock or impervious soil
✓			Cutoff trench filled with impervious material
✓			Embankments and cutoff trench 95% compaction standard proctor ASTM
✓			Embankment free of roots, tree debris, stones >6" diameter, etc.
✓			Embankment constructed in lifts no greater than 12"
✓			Spillpipe sized to carry peak flow from a one year storm event
✓			Spillpipe will not chemically react with effluent
✓			Subsurface withdrawal
✓			Anti-seep collars extend radially at least 2' from each joint in spillpipe
✓			Splashpad at the end of the spillpipe
✓			Emergency Spillway sized for peak flow from 25-yr 24-hr event if discharge not into PWS classified stream
		✓	Emergency spillway sized for peak flow from 50-yr 24-hr event if discharge is into PWS classified stream
✓			Emergency overflow at least 20' long
✓			Side slopes of emergency spillway no steeper than 2:1
✓			Emergency spillway lined with riprap or concrete
✓			Minimum of 1.5' of freeboard between normal overflow and emergency overflow
✓			Minimum of 1.5' of freeboard between max. design flow of emergency spillway and top of dam
✓			All emergency overflows are sized to handle entire drainage area for ponds in series
✓			Dam stabilized with permanent vegetation
✓			Sustained grade of haul road <10%
✓			Maximum grade of haul road <15% for no more than 300'
	✓		Outer slopes of haul road no steeper than 2:1
	✓		Outer slopes of haul road vegetated or otherwise stabilized
		✓	Detail drawings supplied for all stream crossings
		✓	Short-Term Stabilization/Grading And Temporary Vegetative Cover Plans
		✓	Long-Term Stabilization/Grading And Permanent Reclamation or Water Quality Remediation Plans

✓ The applicant has completed the surface water discharge alternatives analysis and has supporting documentation, including annualized costs for each technically feasible alternative available for review upon request

IDENTIFY AND PROVIDE DETAILED EXPLANATION FOR ANY "N" OR "N/A" RESPONSE(s):

Closure plan not required
Closure plan not required
Closure plan not required
Closure plan not required
Closure plan not required
Closure plan not required
Closure plan not required
Closure plan not required
Closure plan not required
Closure plan not required
Closure plan not required

XX. POLLUTION ABATEMENT PLAN (PAP) REVIEW CHECKLIST

Y	N	N/A	
✓			PE Seal with License #
✓			Name and Address of Operator
✓			Legal Description of Facility
			General Information:
✓			Name of Company
✓			Number of Employees
✓			Products to be Mined
✓			Hours of Operation
✓			Water Supply and Disposition
			Topographic Map:
✓			Mine Location
✓			Location of Prep Plant
✓			Location of Treatment Basins
✓			Location of Discharge Points
✓			Location of Adjacent Streams
			1"- 500' or Equivalent Facility Map:
✓			Drainage Patterns
✓			Mining Details
✓			All Roads, Structures Detailed
✓			All Treatment Structures Detailed
			Detailed Design Diagrams:
✓			Plan Views
✓			Cross-section Views
✓			Method of Diverting Runoff to Treatment Basins
			Narrative of Operations:
✓			Raw Materials Defined
✓			Processes Defined
✓			Products Defined
			Schematic Diagram:
✓			Points of Waste Origin
✓			Collection System
✓			Disposal System
			Post Treatment Quantity and Quality of Effluent:
✓			Flow
✓			Suspended Solids
✓			Iron Concentration
✓			pH
			Description of Waste Treatment Facility:
✓			Pre-Treatment Measures
✓			Recovery System
✓			Expected Life of Treatment Basin
✓			Schedule of Cleaning and/or abandonment
			Other:
✓			Precipitation/Volume Calculations/Diagram Attached
		✓	BMP Plan for Haul Roads
✓			Measures for Minimizing Impacts to Adjacent Stream i.e., Buffer Strips, Berms, etc.
✓			Methods for Minimizing Nonpoint Source Discharges
		✓	Facility Closure Plans
✓			PE Rationale(s) For Alternate Standards, Designs or Plans

IDENTIFY AND PROVIDE DETAILED EXPLANATION FOR ANY "N" OR "N/A" RESPONSE(s):

Closure plan not required
Closure plan not required
Closure plan not required
Closure plan not required

XXI. INFORMATION

Contact the Department prior to submittal with any questions or to request acceptable alternate content/format. Be advised that you are not authorized to commence regulated activity until this application can be processed, publicly noticed, and approval to proceed is received in writing from the Department.

EPA Form(s) 1 and 2F need not be submitted unless specifically required by the Department. EPA Form(s) 2C and/or 2D are required to be submitted unless the applicant is eligible for a waiver and the Department grants a waiver.

Planned/proposed mining sites that are greater than 5 acres, that mine/process coal or metallic mineral/ore, or that have wet or chemical processing, must apply for and obtain coverage under and Individual NPDES Permit prior to commencement of any land disturbance. Such coverage may be requested via this ADEM Form 315.

The applicant is advised to contact:

(1) The Alabama Surface Mining Commission (ASMC) if coal, coal fines, coal refuse, or other coal related materials are mined, transloaded, processed, *etc.*;
(2) The Alabama Department of Industrial Relations (ADIR) if conducting non-coal mining operations;
(3) The Alabama Historical Commission for requirements related to any potential historic or culturally significant sites;
(4) The Alabama Department of Conservation and Natural Resources (ADCNR) for requirements related to potential presence of threatened/endangered species; and
(5) The US Army Corps of Engineers, Mobile or Nashville Districts, if this project could cause fill to be placed in federal waters or could interfere with navigation.

The Department must be in receipt of a completed version of this form, including any supporting documentation, and the appropriate processing fee (including Greenfield Fee and Biomonitoring & Toxicity Limits fee(s), if applicable), prior to development of a draft NPDES permit. Send the completed form, supporting documentation, and the appropriate fees to:

Water Division
Alabama Department of Environmental Management
Post Office Box 301463
Montgomery, Alabama 36130-1463
Phone: (334) 271-7823
Fax: (334) 279-3051
h2omail@adem.state.al.us
www.adem.alabama.gov

XXII. PROFESSIONAL ENGINEER (PE) CERTIFICATION

A detailed, comprehensive Pollution Abatement/Prevention Plan (PAP) must be prepared, signed, and certified by a professional engineer (PE), registered in the State of Alabama as follows:

"I certify on behalf of the applicant, that I have completed an evaluation of discharge alternatives (Item XVIII) for any proposed new or increased discharges of pollutant(s) to Tier 2 waters and reached the conclusions indicated. I certify under penalty of law that technical information and data contained in this application, and a comprehensive PAP Plan including any attached SPCC plan, maps, engineering designs, etc. acceptable to ADEM, for the prevention and minimization of all sources of pollution in stormwater and authorized related process wastewater runoff has been prepared under my supervision for this facility utilizing effective, good engineering and pollution control practices and in accordance with the provisions of ADEM Admin. Code Division 335-6 , including Chapter 335-6-9 and Appendices A & B. If the PAP plan is properly implemented and maintained by the Permittee, discharges of pollutants can reasonably be expected to be effectively minimized to the maximum extent practicable and according to permit discharge limitations and other permit requirements. The applicant has been advised that appropriate pollution abatement/prevention facilities and structural & nonstructural management practices or Department approved equivalent management practices as detailed in the PAP plan must be fully implemented and regularly maintained as needed at the facility in accordance with good sediment, erosion, and other pollution control practices, permit requirements, and other ADEM requirements to ensure protection of groundwater and surface water quality."

Address PO Box 1081, Tuscaloosa, Alabama 35403 PE Registration # AL 27030

Name and Title (type or print) Douglas J. Varnon, P.E. Phone Number 205.242.3813

Signature _____ Date Signed 3/28/2016

XXIII. RESPONSIBLE OFFICIAL SIGNATURE*

This application must be signed by a Responsible Official of the applicant pursuant to ADEM Admin. Code Rule 335-6-6-.09 who has overall responsibility for the operation of the facility.

"I certify under penalty of law that this document, including technical information and data, the PAP plan, including any SPCC plan, maps, engineering designs, and all other attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the PE and other person or persons under my supervision 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 or imprisonment for knowing violations.

A comprehensive PAP Plan to prevent and minimize discharges of pollution to the maximum extent practicable has been prepared at my direction by a PE for this facility utilizing effective, good engineering and pollution control practices and in accordance with the provisions of ADEM Admin. Code Division 335-6, including Chapter 335-6-9 and Appendices A & B, and information contained in this application, including any attachments. I understand that regular inspections must be performed by, or under the direct supervision of, a PE and all appropriate pollution abatement/prevention facilities and structural & nonstructural management practices or Department approved equivalent management practices identified by the PE must be fully implemented prior to and concurrent with commencement of regulated activities and regularly maintained as needed at the facility in accordance with good sediment, erosion, and other pollution control practices and ADEM requirements. I understand that the PAP plan must be fully implemented and regularly maintained so that discharges of pollutants can reasonably be expected to be effectively minimized to the maximum extent practicable and according to permit discharge limitations and other requirements to ensure protection of groundwater and surface water quality. I understand that failure to fully implement and regularly maintain required management practices for the protection of groundwater and surface water quality may subject the Permittee to appropriate enforcement action.

I certify that this form has not been altered, and if copied or reproduced, is consistent in format and identical in content to the ADEM approved form.

I further certify that the discharges described in this application have been tested or evaluated for the presence of non-stormwater discharges and any non-mining associated beneficiation/process pollutants and wastewaters have been fully identified."

Name (type or print) Alejandro Perez Official Title Plant Manager

Signature _____ Date Signed 3/31/16

*335-6-6-.09 Signatories to Permit Applications and Reports.

(1) The application for an NPDES permit shall be signed by a responsible official, as indicated below:
   (a) In the case of a corporation, by a principal executive officer of at least the level of vice president, or a manager assigned or delegated in accordance with corporate procedures, with such delegation submitted in writing if required by the Department, who is responsible for manufacturing, production, or operating facilities and is authorized to make management decisions which govern the operation of the regulated facility;
   (b) In the case of a partnership, by a general partner;
   (c) In the case of a sole proprietorship, by the proprietor; or
   (d) In the case of a municipal, state, federal, or other public entity by either a principal executive officer, or ranking elected official.

ATTACHMENT "A"

CEMEX Southeast, LLC
929 Gessner, Suite 1900
Houston, TX 77024
(713) 650-6200

BOARD OF DIRECTORS
AND
OFFICERS

NAME	TITLE	HOME ADDRESS
Juan Carlos Herrera	Director and President	527 Bunker Hill Road, Houston, Texas 77024
Mike F. Egan	Director, VP, General Counsel, and Secretary	200 Churchill Road West Palm Beach, FL 33405
Hugo Bolio	Vice President	1302 Pitkin Iron Court Houston TX 77077
Kelly A. Nelson	Vice President	15 Tradewinds Circle Tequesta, FL 33469
R. Frank Craddock	Vice President	7900 Hampton Place Vestavia, AL 35242
Kirk Light	Vice President	13723 Queensbury Houston, Texas 77079
Ryan E. Mahoney	Vice President	11575 Sunrise View Lane Wellington, FL 33449
Guillermo Martinez	Vice President	3515 Louvre Ln., Houston, TX 77082
Robert J. Capasso	VP, Treasurer, Assistant Secretary	9890 Bay Leaf Court, Parkland, Florida 33076
Fernando Reiter	Assistant Treasurer	11627 Royal Oaks Trace Houston, TX 77082
Eduardo Gonzalez Hinojosa	Assistant Secretary	5919 Solar Point Ln., Houston, TX 77041
John V. Heffernan	Assistant Secretary	3603 Holiday Bay Ct Katy, TX 77494

ATTACHMENT "C"

SECTION VII requires a detailed description of hazardous or toxic waste.

The CEMEX SOUTHEAST LLC facility consumes and stores coal, diesel fuel, gasoline, grinding aid, waste oil, and lubricating oil as part of the cement manufacturing process. These items are not considered a health hazard if they are stored and handled properly.

The CEMEX SOUTHEAST LLC facility is a Small Quanity Generator of hazardous waste. The Facility EPA ID Number is ALD983192402. The quality control lab produces a waste which is primarily isopropyl alcohol. The waste is stored is a 55 gallon drum on the 2nd floor of the mill building at the lab door. Any spill or leakage would be noticed quickly, contained and cleaned up. When the drum is full it is shipped offsite for disposal. Approximately 2 drums are shipped per year.

April 1, 2016

Ms. Catherine McNeill, Chief
Mining and Natural Resource Section
Water Division
Alabama Department of Environmental Mgmt.
PO Box 301463
Montgomery, AL 36130-1463

Re: Demopolis Quarry
NPDES Permit AL0027341
Marengo County (091)

Dear Ms. McNeill:

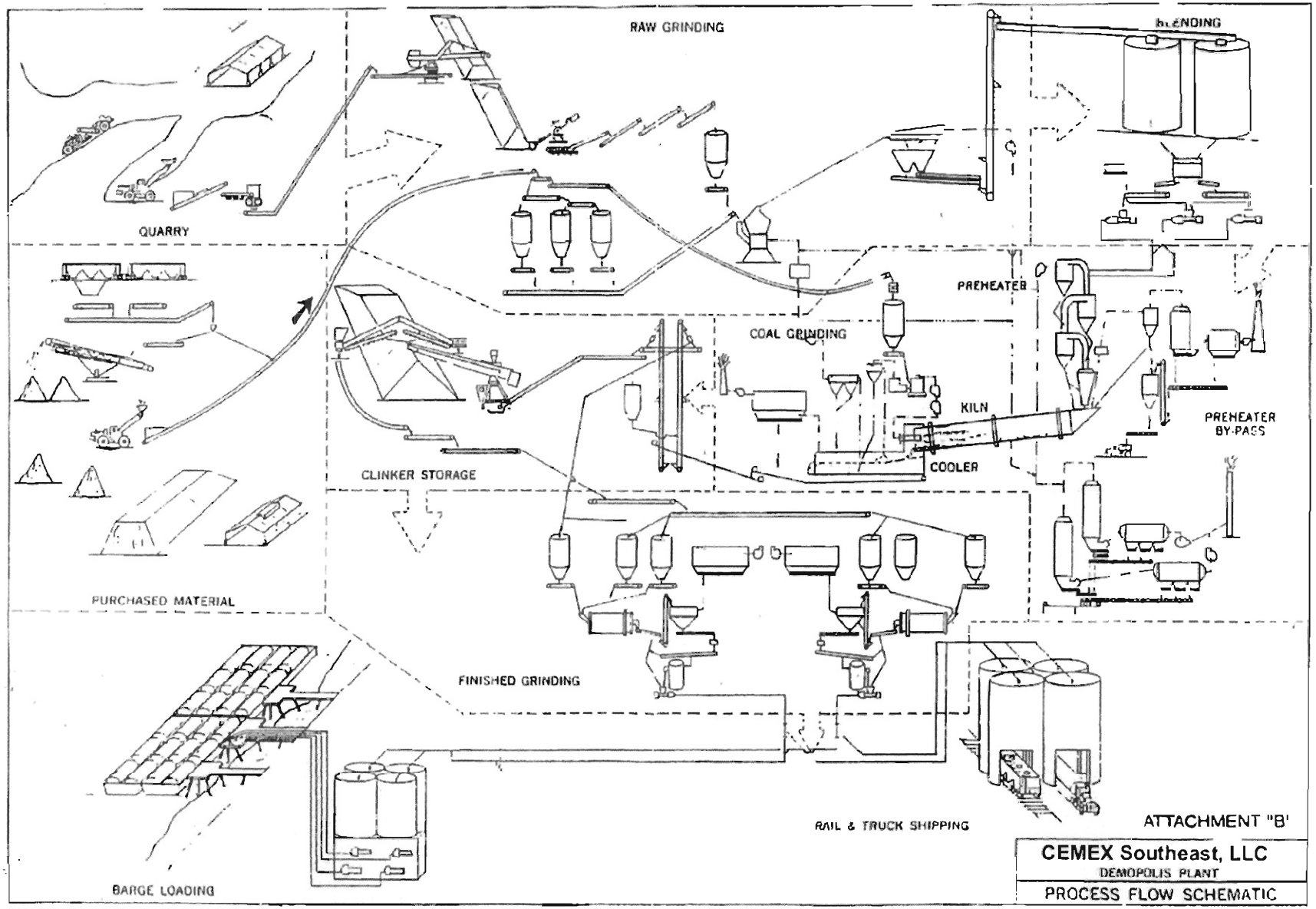
I hereby designate the Plant Manager of CEMEX Southeast, LLC, Demopolis Cement Plant, as a duly authorized representative to sign reports and information, i.e. discharge monitoring reports, etc., required by the plant's NPDES permit referenced above. I certify that the Plant Manager has the overall responsibility of this plant, including, but not limiting to, NPDES permitting matters. Alejandro Perez is currently the Demopolis Plant Manager.

I certify that I am the Vice President and General Counsel for CEMEX Southeast, LLC. CEMEX Southeast, LLC is the owner and operator of the CEMEX Southeast, LLC, Demopolis Plant. As an officer of CEMEX Southeast, LLC, I have the authority to designate an authorized representative to sign NPDES-related reports and information required by the plant's NPDES permit pursuant to 40 C.F.R. § 122.22(b)(2); 122.41(k).

Sincerely,

Mike Egan
Vice President and General Counsel
CEMEX Southeast, LLC

ATTACHMENT B
PROCESS FLOW SCHEMATIC



ATTACHMENT "B'

CEMEX Southeast, LLC

DEMOPOLIS PLANT

PROCESS FLOW SCHEMATIC

ATTACHMENT C
POLLUTION ABATEMENT PLAN

POLLUTION ABATEMENT PLAN

Prepared for:

CEMEX Southeast, LLC.

CEMEX
Building the future™

DEMOPOLIS PLANT AND QUARY
DEMOPOLIS, ALABAMA

March 2016

Prepared by:

rockcastle consulting, llc
Wetlands • Survey • Land Management • Environmental

P.O. Box 1081
Tuscaloosa, AL 35403
(205) 454-0882
email: ccates@rockcastle-llc.com

Rockcastle Project No. 16-010.00

POLLUTION ABATEMENT PLAN

CEMEX SOUTHEAST, LLC.
DEMOPOLIS PLANT AND QUARRY
DEMOPOLIS, ALABAMA

Table of Contents

CERTIFICATION STATEMENT:

I hereby certify that this Plan was developed under my supervision and is accurate and correct to the best of my knowledge and belief. I further certify that the Plan meets the requirements of ADEM Administration Code Division 335-6, including Chapter 335-6-9 and Appendices A & B.

Douglas J. Vamon, PE
Alabama Registration No. 27030

3/28/2016
Date

Prepared by Chip Cates, P.G.
Alabama Registration No. 1110

I. INTRODUCTION:

This document is part of a revision to the Spill Prevention Control and Counter Measures plan associated with an NPDES permit. The CEMEX Southeast, LLC., Demopolis Plant and Quarry, are located in portions of Sections 19, 20, 21, 28, 29 and 30; T18N, R3E, Marengo County, Alabama. Figure 1, Facility Site Plan, shows the location of the plant.

This application is being prepared in accordance with the rules and regulations of the Alabama Department of Environmental Management. A thorough field review was made preceding the approval and submittal of this application. Field checks were made of the entire sedimentation basin system to determine compliance with ADEM rules and regulations.

The Pollution Abatement Plan is presented in two parts, including a brief narrative presented herein and the Pollution Abatement Plan map, which is attached hereto. The narrative is intended to address the format as outlined by the ADEM Water Division – Water Quality and Control Program, Rules and Regulations, as well as present the basis for the designs as further detailed in this document. Generally, the narrative will follow the outline of Chapter 6-9-.03, Surface Mining Rules and Regulations from the ADEM Rules and Regulations.

II. OPERATOR:

The Owner and Operator of this facility is CEMEX Southeast, LLC. Its corporate office is as follows:

CEMEX Southeast, LLC.
929 Gessner Road, Suite 1900
Houston, TX 77024

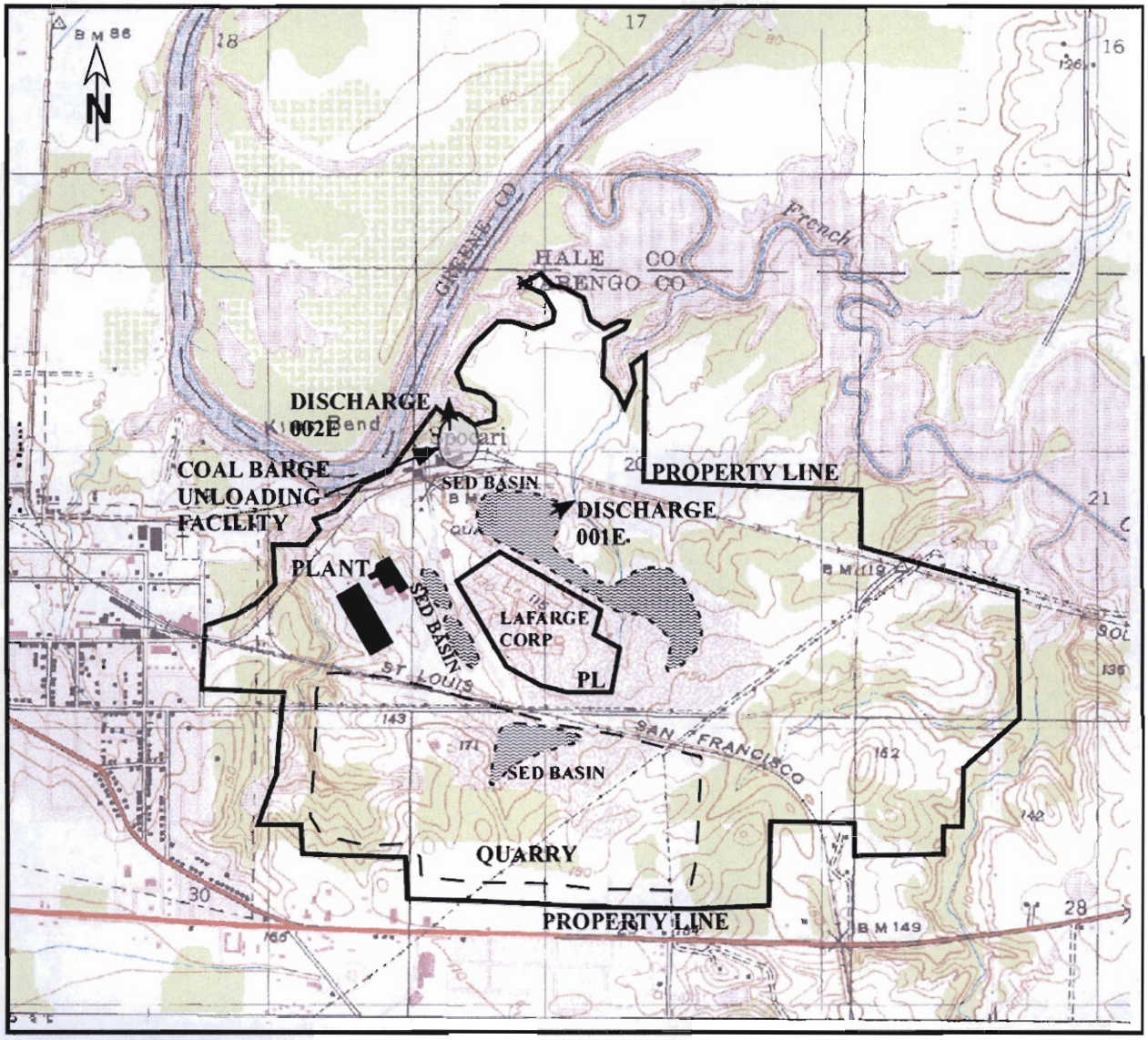
The plant and quarry lie within the property boundary as described in the various legal descriptions in Attachment A.

III. GENERAL INFORMATION:

The quarry and plant employ approximately one hundred individuals. All are employees of CEMEX Southeast, LLC or private contractors.

The CEMEX Southeast, LLC., Demopolis Plant, quarries Selma chalk, the main ingredient for the onsite manufacture of Portland Cement.

Stormwater from the quarry, plant and other areas are collected in sedimentation ponds or basins before being discharged by pumping from the Abandoned Quarry Sedimentation Pond. As shown on Figure 2, Stormwater Treatment System Schematic, stormwater which falls in the quarry, is accumulated in the Quarry Sedimentation Pond. These



SCALE: [redacted] =2000'
DEMOPOLIS QUADRANGLE
CEMEX SOUTHEAST, LLC
DEMOPOLIS QUARRY
MARENGO COUNTY, ALABAMA
T18N, R3E, S19, 20, 21, 28, 29, & 30

rockcastle consulting, llc
Wetlands • Survey • Land Management • Environmental

March 27, 2016

POINT	LATITUDE	LONGITUDE
001E	32° 31' 00"N	87° 48' 27"W
002E	32° 31' 12"N	87° 48' 47"W

FIGURE 1. FACILITY SITE PLAN

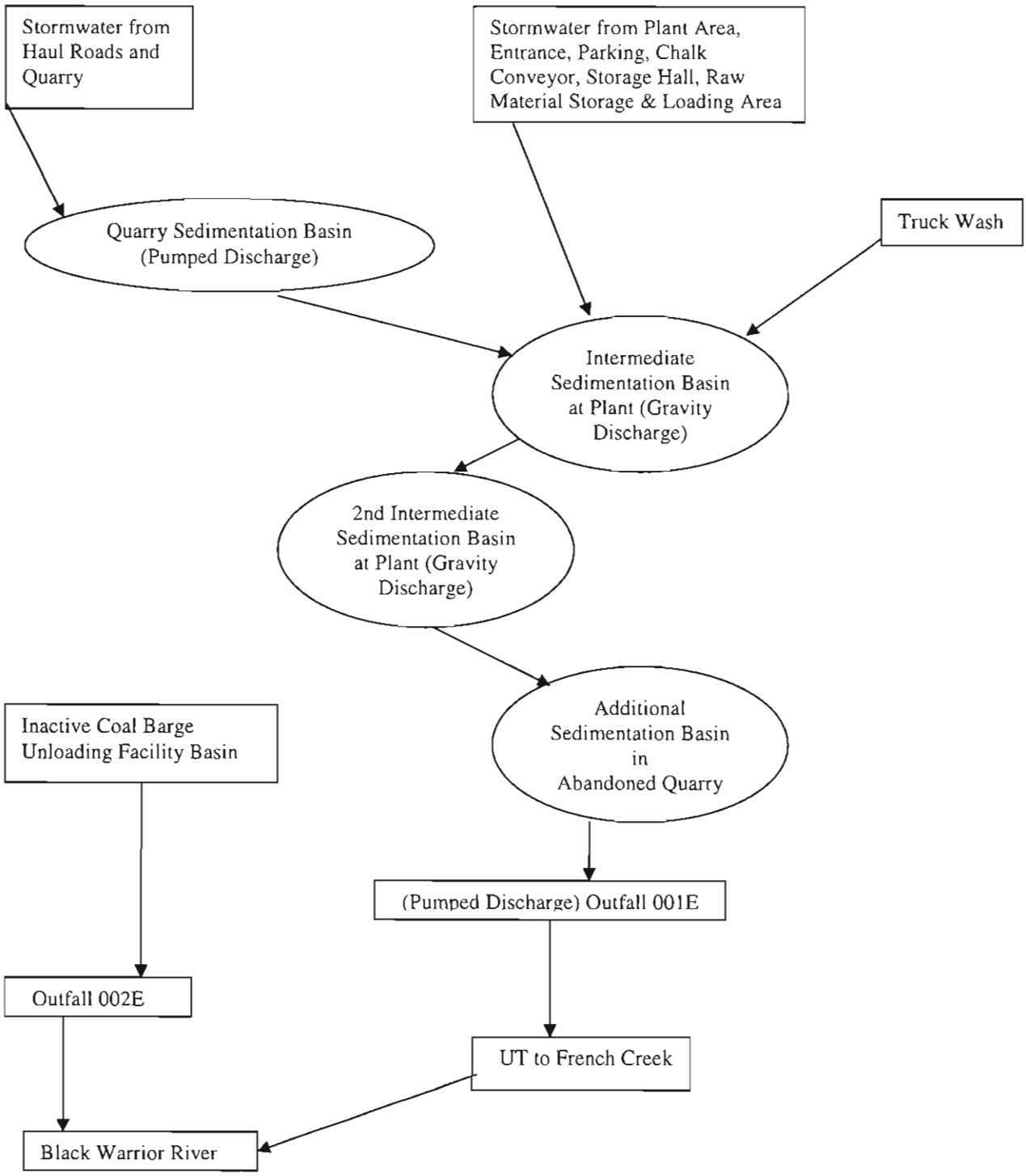


FIGURE 2. STORMWATER TREATMENT SYSTEM SCHEMATIC

waters are then pumped into two Intermediate Sedimentation Ponds before discharge to the Abandoned Quarry Sedimentation Pond. Sediments that accumulate in these ponds are periodically removed and disposed in permitted onsite landfill. Stormwaters from the Plant and Storage Hall Area, loading area, plant entrance and parking area, and Purchased Raw Material Area are directed initially to the Intermediate Sedimentation Ponds or the Abandoned Quarry Sedimentation Pond. The Quarry and Abandoned Quarry do not have bypasses or spillways. An additional sediment pond is located at the Inactive Coal Barge Unloading Facility which discharges into the Black Warrior River.

Treatment of stormwater is by detention and subsequent settlement of solids in the sedimentation basins. The discharged water at 001E is routinely analyzed for pH, TSS, COD, O&G, TDS, Fe, and Mn. A timer located on the pump starter allows calculation of the amount of water discharged. The outfall discharge 002E at the Coal Barge Unloading Facility is sampled for pH, TSS, COD, O&G, TDS, Fe, and Mn when outfall occurs.

IV. TOPOGRAPHIC MAP:

The "Pollution Abatement Plan" is drawn upon a folded 1" = 500' topographic map showing most of the CEMEX Southeast, LLC. property and is attached to this document Attachment B. The quarry, plant, and abandoned quarry are shown. Figure 1, Facility Site Plan, is based upon 1"=2000' scale U.S.G.S. topographic mapping and shows the overall area of the facility.

V. METHOD OF DIVERTING SURFACE WATER RUNOFF:

The "Pollution Abatement Plan" shows the diversion of surface water runoff. All disturbed areas drain back to the Quarry Sedimentation Basin, Intermediate Sedimentation Basins and/or the Abandoned Quarry Sedimentation Basin by sheet drainage or a series of ditches. An additional small sedimentation basin serves the purchased raw materials storage area and loading area.

VI. RAW MATERIALS, PROCESSES AND PRODUCTS:

Selma chalk is the only raw material mined. The chalk is removed by elevating scrapers, stockpiled, crushed, and finally belt-transported to a blending shed. The chalk that leaves the shed is pulverized with purchased raw materials and is then directed into a rotary kiln where chemical reactions occur to make cement clinker. The cement clinker is pulverized with a purchased material to make the end product, Portland cement. A schematic of the process flow is attached as Attachment C.

Purchased raw materials include gypsum, coal, petroleum coke, sand, crushed limestone and iron ore. Much of the coal is stored under a roof. Stormwater from this area is directed to small sedimentation basin prior to flowing into the Abandoned Quarry Sedimentation Basin.

VII. SCHEMATIC DIAGRAM:

Figure 2, Stormwater Treatment System Schematic shows the areas of stormwater runoff and the collection and treatment system.

VIII. POST TREATMENT QUANTITY AND QUALITY OF EFFLUENT:

Surface runoff water containing dust from coal, and oil and grease associated with the equipment used to unload and transport the coal, is the only waste product of the inactive coal unloading facility. The coal dust and water drain into a sedimentation basin located adjacent to the barge unloading facility. The water is allowed to settle in the basin and is discharged via spillway pipe (002E) into the Black Warrior River. Surface runoff water containing dust from Selma chalk mining and blending is the only waste product of the quarry. The chalk dust and water drains to a sedimentation basin located in the quarry bottom. The settled dust is periodically mined and used as raw material. The water is pumped to the Intermediate Sedimentation Basins and then flows to the Abandoned Quarry Sedimentation Basin where it is allowed to settle further. Finally, the water is discharged by pumping to an unnamed tributary of French Creek. Typically, the pH of the discharged water is 8.0 and the total suspended solids about 20 ppm for the Plant and Quarry. The only process water discharges are from minor leaks and repairs.

IX. WASTE TREATMENT FACILITIES:

As previously mentioned, the treatment process is sedimentation in basins. Quarry runoff water, as well as the plant runoff water, is directed to one or more basins before discharge by pumping. At the Inactive Coal Barge Unloading Facility, water is discharged when the elevation of the basin reaches the spill pipe. The spill pipe is angled as to not discharge any contaminate floating on the surface of the basin. The life expectancy of the basin will be the life of the permit.

To date, only settling basins has been required for assuring that discharged water meets the pH, TSS, COD, O&G, TDS, Fe, and Mn limits. The Abandoned Quarry Sedimentation Basin has considerable excess capacity. In the event water would need further treatment, halting discharge would not pose a problem for some time. Due to its size and solids removal in other basins, solids removal from the abandoned Quarry Sedimentation Basin will be unnecessary.

X. SEDIMENT CONTROL FOR HAUL ROADS:

Due to the unique nature of chalk mining with scrapers, all quarry roads naturally lead down a five to 15 degree slope to the Quarry Sedimentation Basin. Therefore, all quarry road water runoff naturally leads to this basin. All haul roads are located in the quarry. Mined chalk is crushed on site and is transported by conveyor to the plant. All roads inside the plant facility drain into sedimentation basins.

XI. LOCATION OF ALL STREAMS ADJACENT TO THE MINING AREA:

Streams adjacent to the mined area are shown on Figure 1, Facility Site Plan.

XII. NON-POINT SOURCE POLLUTION:

All disturbed areas of the facility drain toward sedimentation basins. Drainage thus carries yard dust to these sedimentation basins. Additionally trucks leaving the facility pass through a truck wash which removes dust. Drainage from this operation is to one of the Intermediate Sedimentation Basins. During dry weather two water trucks spray all quarry and plant roads to prevent dust from becoming airborne. The water used by these trucks comes from one of the intermediate sedimentation basins. Coal dust is contained at the coal barge unloading facility in a sedimentation basin as a product of stormwater runoff. This basin will be cleaned out when capacity reaches 60% of the design capacity.

XIII. PUBLIC WATER SUPPLY IMPOUNDMENT:

The receiving water of the Abandoned Quarry Sedimentation Basin is an unnamed tributary of French Creek. French Creek is a tributary of the Black Warrior River. To date, all discharge from the outfall has been below limits set by ADEM; namely a pH of less than nine and TSS limit of 45 ppm. French Creek, its unnamed tributary, and the Black Warrior River are not public water supplies. The Black Warrior River is classified for swimming/fish and wildlife. The unnamed tributary of French Creek is classified as fish and wildlife.

XIV. SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN:

A detailed SPCC plan for all onsite fuel storage tanks is attached. A map showing the locations of the fuel storage tanks and containment structures is located in the SPCC plan.

XV. RUNOFF CALCULATIONS:

Discharge of stormwater effluent from the Quarry to the Plant facility are by vertical turbine pump. The flow from the Plant sedimentation basin to the abandoned quarry sedimentation basin is by gravity flow. The discharge of the treated stormwater effluent from the abandoned quarry to Outfall 001E at French Creek is pumped.

For the outfall 002E at the Inactive Coal Barge Unloading Facility a 6" spill pipe has been sized for the basin using the Rational Method Q=CIA.

XVI. RECLAMATION PROCEDURE

Reclamation of quarried areas at this facility is not required.

During construction activities or expansion of the quarry, erosion control measures such as hay bales, riprap, cleared trees or brush, and other acceptable methods will be utilized as needed to minimize erosion.

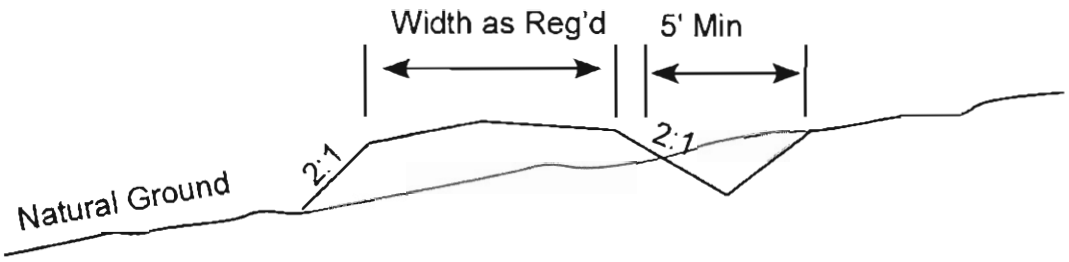
XVII. GENERAL QUARRY/ COAL UNLOADING OPERATION:

This operation consists of excavating Selma chalk with elevating scrapers for use as a cement raw material. The scrapers, once loaded, haul the excavated chalk to a storage shed. A front-end loader then removes the chalk from the shed and places the chalk into a crusher. The chalk from the crusher is belt-transported to a blending shed for further processing. There are no haul roads outside of the quarry. Generally quarry equipment stays within the quarry.

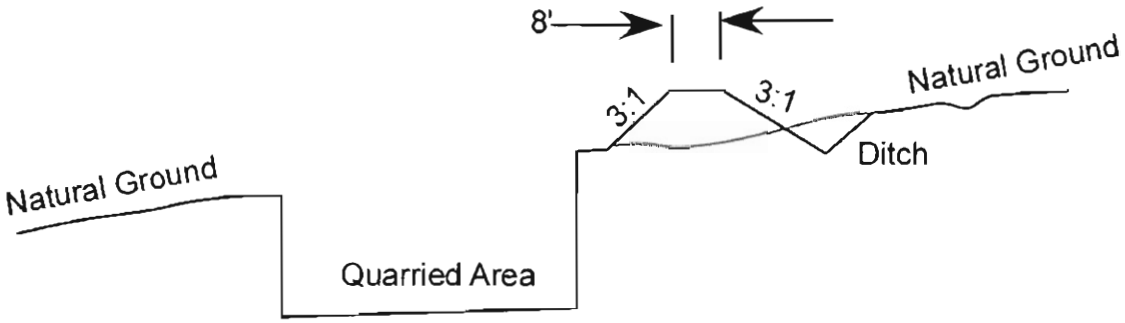
At the Inactive Coal Barge Unloading Facility, the general operation consists of unloading coal from a barge with a track hoe located on a deck barge. When in operation, coal is placed in a hopper on a deck barge and transported to an onshore stationary hopper via a conveyor belt. The coal is then transported to the coal storage area located in the Plant facility with a covered conveyor belt.

XVIII. BMP TYPICALS and DESIGN DATA

(See Figure 3)



Typical Section for Haul Road



Detail for Ditch and Berm to Divert Water Around Quarried Areas

FIGURE 3. TYPICAL SECTIONS

OUTFALL 002E (Inactive Coal Barge Unloading Facility)

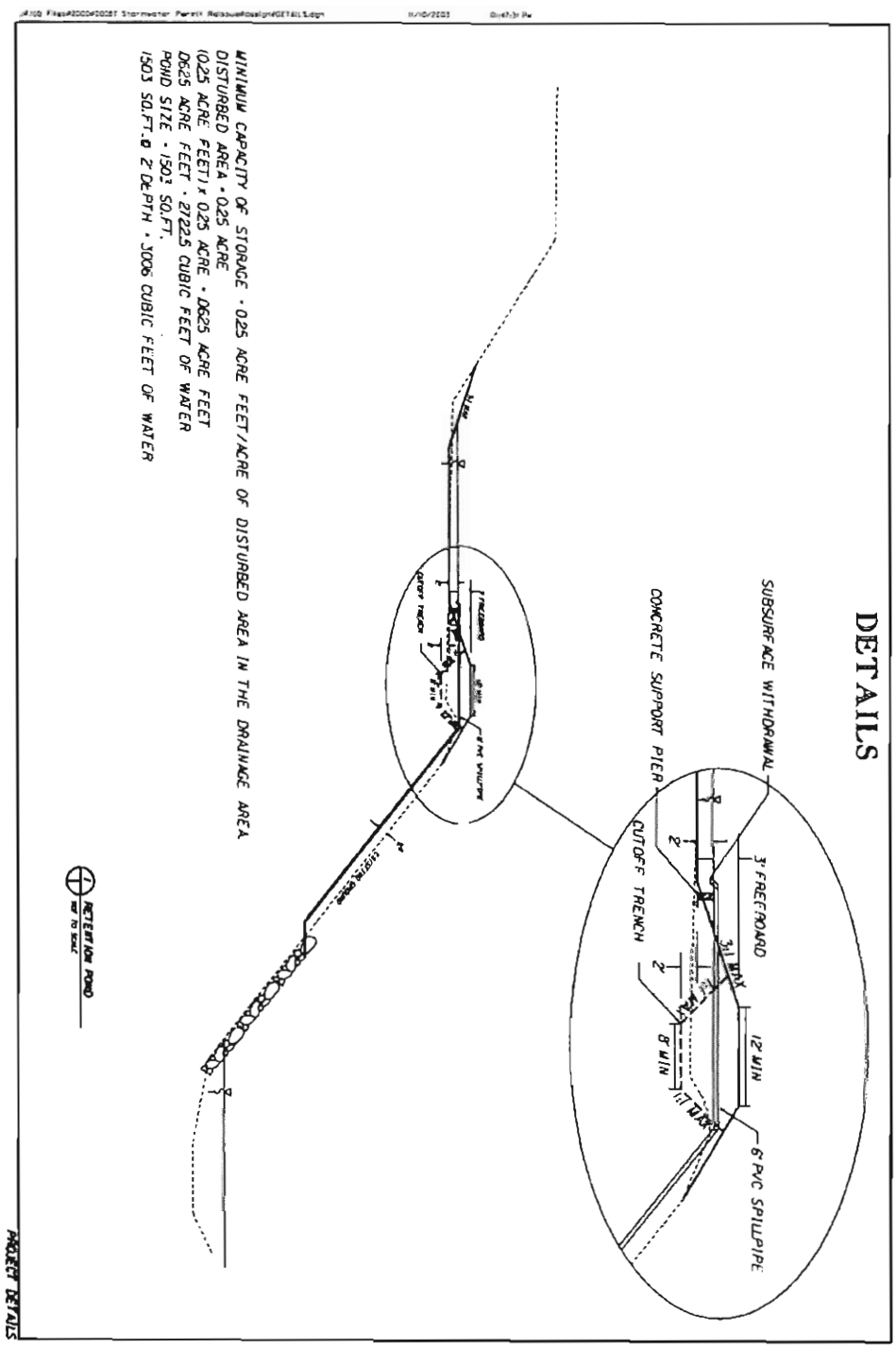


FIGURE 3. TYPICAL SECTIONS

ATTACHMENT A
LEGAL DESCRIPTIONS

Legal Description

Parcel One

(a) The Southeast Quarter (SE ¼); the Southwest Quarter (SW ¼), excepting the ten (10) acres in the Southwest corner of said Southwest Quarter (SW ¼); and that part of the Northwest Quarter (NW ¼) lying South and East of the Warrior River; all in section 20, Township 18 North, Range 3 East;

(b) A parcel of land located in the East Half of Section 19, Township 18 North, Range 3 East, described as beginning in the center of Devil's Run Creek where the same empties into the Warrior River; then run in an Easterly and Northeasterly direction with the meanderings of the Warrior River along the Southerly and Easterly boundaries thereof to the point where the Easterly boundary of the said Warrior River crosses the East line of said Section 19; thence South along the East line of said Section 19 to the North line of the Right-of-Way of Southern Railway Company; thence in a Southwesterly direction along the Northerly line of said Right-of-Way to the point where the Northerly line of the said Right-of-Way crosses the center line of Devil's Run Creek; thence North with the meanderings of the said Creek and along the center line thereof to the Point of Beginning.

(c) All of Lots numbered 1, 2, 3, 4, 5, 10, 11, 12, 13, 14 and 15, and those portions of Lots 6, 7, 8, 9 and 32 lying South of the Right-of-Way of Southern Railway Company, all according to the Old French Survey of Section 19, Township 18 North, Range 3 East; excepting therefrom, however, that part of said Lot 32 which lies North and West of a stream which crosses the West line of said Lot and runs across the Northwest Corner of said Lot 32 in a Northeasterly direction towards and into the Warrior River;

(d) All of Blocks numbered 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18 and 19, according to the plan and survey of Knox Addition of the City of Demopolis, a map of which survey is recorded in Volume 10 of Miscellaneous Records at Pages 598 and 599 in the Office of the Judge of Probate of Marengo County, Alabama.

Being the same real estate described in deed of Lone Star Cement Company Alabama (formerly known as Alabama Portland Cement Company) to Lone Star Cement Corporation (a Virginia Corporation) dated November 30, 1934, and recorded in the Office of the Judge of Probate of Marengo County, Alabama, in Deed Book 3-Q, at Page 95.

LESS AND EXCEPT from the above described property the following described lot: "From a concrete monument in the Northeast Corner, Section 30, Township 18 North, Range 3 East, turn South 85 degrees 48 minutes West 1606.5 feet along the Section line to a point; thence turn North 4 degrees 19 minutes West 52.5 feet to an iron pin; the Point of Beginning on the North Right-of-Way or Arcola Road (60' Right-of-Way); thence continue North 4 degrees 19 minutes West 208.7 feet to an iron pin; thence turn South 85 degrees 41 minutes West 208.7 feet to an iron pin; thence turn North 85 degrees 41 minutes East 208.7 feet along the North Right-of-Way of said Arcola Road to Point of

Beginning, all in SW ¼ of SE ¼ of Section 19, Township 18 North, Range 3 East, containing 1.0 acre, more or less; previously conveyed to Same Moore, Et Al, by deed recorded in Deed Book 6-X, Page 266, Probate Office, Marengo County, Alabama."

ALSO, LESS AND EXCEPT the following real estate heretofore conveyed to A.R. Taylor Veneer Company, Inc. by deed of May 11, 1977, recorded in the Office of the Judge of Probate of Marengo County, Alabama, in Deed Book 7-D, at Page 31: "From a concrete monument of the NE corner Section 30, Township 18 North, Range 3 East, turn South 85 degrees 48 minutes West 2456.5 feet along the North line Section 30 to a point; thence run North 986.34 feet along the East margin of Fourth Avenue to the Point of Beginning; thence run North 750.48 feet along said East margin of Forth Avenue to a point; thence run East 810.0 feet along the North property line of Lone Star Industries; thence run South 444.75 feet to the Northwest margin of the St. Louis-San Francisco Railroad Right-of-Way; thence run Northwest 400 feet along said Right-of-Way to the Point of Beginning. Parcel contains 13.0 acres, more or less, situated in the W ½ of SE ¼, Section 19, Township 18 North, Range 3 East, Marengo County, Alabama."

Parcel Two

(a) A 5.0 acre tract described as beginning at a concrete marker at the NE corner of Section 29, Township 18 North, Range 3 East; thence South 3 degrees 57 minutes East for 661.3 feet to a concrete marker; thence South 86 degrees 17 minutes West for 331.5 feet to a concrete marker; thence North 3 degrees 57 minutes West for 661.3 feet to a concrete marker; thence North 86 degrees 17 minutes East for 331.5 feet to the Point of Beginning.

(b) A 245.8 acre tract described as beginning at a concrete marker at the Northwest corner of Section 29, Township 18 North, Range 3 East; thence North 86 degrees 17 minutes East along the North line of said Section 29 for 4641 feet to a concrete marker at the Northeast Corner of the herein described property; thence South 3 degrees 57 minutes East for 1297.6 feet to a concrete marker; thence South 85 degrees 52 minutes West for 358 feet to a concrete marker; thence South 3 degrees 59 minutes East for 1096.8 feet to a concrete marker which is 200 feet north of the North margin of U.S. Highway #80; thence West parallel to and 200 feet from the North margin of said Highway for 1096 feet to P. I 958 + 52.2 + 958 + 54.4 at which point the Right-of-Way of U.S. Highway #80 is reduced from 80 feet to 50 feet in width; thence from said point continue West parallel to and 215 feet from the North margin of said U.S. Highway for 3174 feet to a concrete marker on the West line of Section 29; thence North 4 degrees 18 minutes West along the West line of said Section 29 for 2361.2 feet to the Point of Beginning.

Both tracts described at (a) and (b) above being situated in the N ½ of Section 29, Township 18 North, Range 3 East, and together contain 250.8 acres, less 7.6 acres in the 100 foot Right-of-Way owned in Fee Simple by the Frisco Lines, and subject to a 60 foot easement as a Right-of-Way owned by the Southern Natural Gas Company, a 100 foot

Right-of-Way owned by the Alabama Power Company, and a Right-of-Way owned by Alabama Power Company on which no width is given.

Being the same real estate described in Deed of Natalie W. Winn, et al, to Lone Star Cement Corporation dated March 1, 1956, and recorded in the Office of the Judge of Probate of Marengo County, Alabama, in Deed Book 4-U, at Page 328.

Parcel Three

A tract of land situated in the Northeast Quarter of the Northeast Quarter of Section 29, Township 18 North, Range 3 East, Marengo County, Alabama, particularly described as follows: Commence at the Northeast Corner of said Section 29, Township 18 North, Range 3 East, and proceed in a Westerly direction along the Northerly Boundary of said Section a distance of 331.5 feet to the Point of Beginning of the tract herein described; thence continue in a Westerly direction along the North line of said Section 29 a distance of 331.5 feet to a concrete marker; thence at an angle of 90 degrees 14 minutes to the left proceed South 3 degrees 57 minutes East 1297.6 feet to a concrete marker; thence turn left and proceed North 85 degrees 52 minutes East a distance of 663 feet to a concrete marker of the East line of said Section 29; thence proceed in a Northerly direction along the East line of said Section 29, 631.7 feet to a concrete marker; thence turn an angle to the left of 89 degrees 46 minutes and proceed 331.5 feet; thence turn an angle to the right of 89 degrees 46 minutes and proceed 661.3 feet to the Point of Beginning.

Excepting therefrom that certain strip of land conveyed to St. Louis-San Francisco Railroad Company by N.G. Winn and wife on September 30, 1926, by instrument recorded in Deed Book 3-H, at Page 630 of the Probate Records of Marengo County, Alabama; said tract conveyed by the within deed containing 13.585 acres.

Being the same real estate described in Deed of Bessie W. Lipscomb, Et al., to Lone Star Cement Corporation dated July 6, 1962 and recorded in the Office of the Judge of Probate of Marengo County, Alabama in Deed Book 5-J, at Page 70.

Parcel Four

Beginning at a point which is 367 feet running North 3 degrees and 52 minutes West from Southwest corner of Section 20, Township 18 North, Range 3 East, which point is on the North margin of Frisco Railroad and East margin of road leading to Lone Star Cement Corporation; thence continue North 3 degrees, 52 minutes West along the East side of road for 145 feet to Southwest corner of Union Hall lot; thence at angle of 94 degrees, 30 minutes to right, run 210 feet; thence at angle of 94 degrees, 30 minutes to left, run 210 feet to Northeast corner of Union Hall lot, on old hedge; thence South 89 degrees, 22 minutes East, for 420 feet to an old iron pipe; thence South 3 degrees 42 minutes East for 439 feet to North margin of right-of-way of Frisco Railroad; thence North 81 degrees and 30 minutes West along the North margin of Frisco Railroad for 633 feet to point of beginning, containing 4.74 acres, more or less, being in SW ¼ of the SW

¼ of Section 20, Township 18 North, Range 3 East, Marengo County, Alabama; subject to any easements or Rights-of-Way for roads and utilities now existing thereon.

Being the same real estate described in Deed to Lucille J. Weiss, Et al. to Lone Star Cement Corporation dated February 28, 1967 and recorded in the Office of the Judge of Probate of Marengo County, Alabama in Deed Book 5-V, at Page 466.

Parcel Five

The following portions of streets in Knox Addition to the City of Demopolis, Alabama heretofore vacated as shown in Deed Book 6-W, at Page 6, Probate Office, Marengo County, Alabama and thereby acquired by operation of Law by Lone Star Industries, Inc. being the adjoining property owners.

(a) A portion of Fifth Avenue, as follows: Commence at the Southwest corner of Lot 7, of Block 14 of the Knox Addition to the City of Demopolis, Marengo County, Alabama; thence West to the Southeast corner of Lot 16, of Block 5 of said Knox Addition; thence North along the West line of said Fifth Avenue to the Northeast corner of Lot 1, of Block 9 of said Knox Addition; thence East to the Northwest corner of Lot 2 of Block 10 of said Knox Addition; thence South along the East line of said Fifth Avenue to the point of beginning.

(b) A portion of Sixth Avenue, as follows: commence at the Southwest corner of Lot 4, of Block 15 of said Knox Addition; thence West to the Southeast corner of Lot 8, of Block 14 of said Knox Addition; thence North along the West line of said Sixth Avenue to the Northeast corner of Lot 1, of Block 10 of said Knox Addition; thence South along the East line of said Sixth Avenue to the point of beginning.

(c) A portion of Decatur Street, as follows: commence at the Southwest corner of Lot 10, of Block 9 of said Knox Addition; thence East along the North line of Decatur Street to the Southeast corner of Lot 3, of Block 19 of said Knox Addition; thence South to the Northeast corner of Lot 1, of Block 18 of said Knox Addition; thence West along the South line of Decatur Street to the Northwest corner of Lot 7, of Block 8 of said Knox Addition; thence North to the point of beginning.

(d) A portion of Perry Street, as follows: commence at the Southwest corner of Lot 10 of Block 8 of Knox Addition; thence East along the North line of said Perry Street to the Southeast corner of Lot 4, Block 18 of said Knox Addition; thence South to the Northwest corner of Lot 7, of Block 7 of said Knox Addition; thence North to the point of beginning.

(e) A portion of Jackson Street, as follows: commence at the Southwest corner of Lot 10 of Block 7 of said Knox Addition; thence East along the North line of Jackson Street to the Southeast corner of Lot 4, of Block 17 of said Knox Addition; thence South to the Northeast corner of Lot 1, of Block 16 of said Knox Addition; thence West along the

South line of said Jackson Street to the Northwest corner of Lot 8, of Block 1, of said Knox Addition; thence North to the point of beginning.

(f) A portion of Prout Street (also known as Maple Street, and also as Frisco Street on various maps), as follows: commencing at the Southwest corner of Lot 10, of Block 6 of said Knox Addition; thence East along the North line of said Prout Street to the Southeast corner of Lot 4, of Block 16 of said Knox Addition; thence South to the Northeast corner of Lot 1, of Block 15 of said Knox Addition; thence East along the South line of said Prout Street to the Northwest corner of Lot 7, of Block 5 of said Knox Addition; thence North to the Point of Beginning.

The aforesaid Knox Addition is recorded on Pages 598 and 599 of Book 10, of the Miscellaneous Records of the Probate Office of Marengo County, Alabama.

Parcel Six

A portion of what is known as "Old Arcola Road" east of Demopolis, Marengo County, Alabama, heretofore vacated as shown in Deed Book 6-F, at Page 358, Probate Office of Marengo County, Alabama, and thereby acquired by operation of law by Lone Star Industries, Inc. being the adjoining property owners:

Commencing at a concrete monument at the Northwest corner of Section 29, Township 18 North, Range 3 East; thence North 3 degrees 37 minutes West for a distance of 28.4 feet to a point on the center line extended of Marengo County Highway Project No. SACP 633-D and which point is Station 0-58.3; thence North 86 degrees 23 minutes East along said center line for a distance of 3774.3 feet to a point, this being Station P.C. 37+ 16.0, thence North 3 degrees 37 minutes West for a distance of 40 feet to the Northerly right-of-way line of Project SACP 633-D, thence along said northerly right-of-way line on a 3 degree-00minutes curve left at a distance of 40 feet from the center line of said curve for a distance of 250 feet to the Point of Beginning of the herein described road to be vacated, which is the intersection of the Westerly margin of Old Arcola Road with the Northerly Right-of-Way line of Marengo County Highway 62, known as Arcola Road, thence continue on the same 3 degrees – 00 minutes curve left at a distance of 40 feet from the center line of said curve for a distance of 42 feet to a point which is the Easterly margin of said Old Arcola Road, thence meander in a Northeasterly direction along the Easterly margin of said Old Arcola Road to the Northwest corner of the 60-ft. wide Right-of-Way strip deeded to Marengo County by Lone Star Cement Corporation, in Right-of-Way deed dated March 9, 1965, and recorded in the Office of the Judge of Probate of Marengo County, in Deed Record Book No. 5-P, Page 115, thence North 3 degrees – 48 minutes West for a distance of 34 feet, more or less, to the existing Northwesterly margin of Old Arcola Road, thence meander in a Southwesterly direction parallel to the Easterly margin of Old Arcola Road to the Point of Beginning.

The area of land bounded by the foregoing description is all situated in the Southeast One-Quarter of Section 20, Township 18 North, Range 3 East, Marengo County, Alabama.

Parcel Seven

Commencing at a point which is 512 feet North 3 degrees 52 minutes West from the Southwest corner of Section 20, Township 18 North, Range 3 East, which Point of Beginning is on the East margin of the road leading to Cement Plant; thence continue North 3 degrees 52 minutes West along the East side of road for 210 feet; thence at angle of 94 degrees 30 minutes to right, run 210 feet North 3 degrees 52 minutes West; thence at angle of 94 degrees – 30 minutes to right, run 210 feet South 89 degrees 22 minutes East; thence at angle of 85 degrees 30 minutes to right, run 210 feet North 3 degrees 52 minutes West; thence at angle of 94 degrees – 30 minutes to right, run 210 feet South 89 degrees 22 minutes East to Point of Beginning, containing 1.0 acre, more or less, being in the SW ¼ of SW ¼ of Section 20, Township 18 North, Range 3 East, Marengo County, Alabama.

Being the same real estate described in Deed of Sam Moore and others as Trustees of United Cement Lime and Gypsum Workers Local Union No. 79 to Lone Star Industries, Inc., dated March 5, 1975, and recorded in the Office of the Judge of Probate of Marengo County, Alabama, in Deed Book 6-Y, at Page 268.

Parcel Eight

A certain strip or parcel of land lying, being and situated in the NW ¼ of Section 20, Township 18 North, Range 3 East, said strip being 35 feet in width, that is to say 10 feet on the Northerly side and 25 feet on the Southerly side of center line of proposed Spur Tract to serve the Warrior Cement Corporation. Said center line being more particularly described as follows:

Beginning at a point in the NW ¼ of Section 20, Township 18 North, Range 3 East, 35 feet perpendicular distance in a Southeasterly direction from center line of main tract of Southern Railway at Spur Tract location station 32 + 25; thence Northeasterly substantially parallel with said main tract of Southern Railway a distance of 475 feet to the end of Spur Tract location 37 + 00 containing 0.38 acre, more or less.

Being the same real estate described in Deed of St. Louis – San Francisco Railway Company to Lone Star Cement Corporation dated September 16, 1944, and recorded in the Office of the Judge of Probate of Marengo County, Alabama, in Deed Book 3-Z, at Page 507.

Parcel Nine

Begin at iron pin on South Right-of-Way of Arcola Road (66 foot right-of-way), said point being 5.3 feet South of Northeast corner of Section 30, Township 18 North, Range 3 East; then run South 85 degrees 13 minutes West 400.0 feet to iron pin; then run South 4 degrees 18 minutes East 544.5 feet to iron pin; thence run North 4 degrees 18 minutes West 544.5 feet to iron pin, the Point of Beginning.

Described lot is located in NE ¼ of NE ¼ of Section 30, Township 18 North, Range 3 East, and contains 5.0 acres, more or less.

Spill Prevention, Control, and Countermeasure (SPCC) Plan

CEMEX Southeast , LLC

Demopolis Plant

1617 Arcola Road

Demopolis, AL 36732

Updated March 2016

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SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN

FOR

CEMEX Southeast, LLC

Demopolis Plant

1617 Arcola Road
Demopolis, Alabama 36732

Original Date of Plan: October 2000

Date of this Plan: Updated December 2003;Updated August 2005; Updated October 2010; Updated October 2013

Date of Previous Plan Amendment/P.E. Certification: October 2010

Date of Last Plan Review: October 2014

Facility Owner, Address, and Telephone:

CEMEX Southeast LLC, Demopolis Plant
1671 Arcola Road
Demopolis, Alabama 36732
(334) 289-4400

Facility Operator, Address, and Telephone:

CEMEX Southeast LLC, Demopolis Plant
1617 Arcola Road
Demopolis, Alabama 36732
(334) 289-4400

Facility Contacts:

Name	Title	Telephone
Alejandro Perez	Plant Manager	(334) 287-3510
Mike Gandy	Environmental Manager	(334) 287-3537

Designated person accountable for spill prevention:

Mike Gandy, Environmental Manager

1.0 General Information

1.1 Introduction

This Spill Prevention, Control, and Countermeasure (SPCC) Plan has been prepared in accordance with the provisions of 40 Code of Federal Regulations (CFR) 112, specifically for the CEMEX Southeast, LLC, Demopolis Plant located at 1617 Arcola Road in Demopolis, Alabama (the facility or the site), and is based upon on-site inspection and information provided by CEMEX.

The purpose of this Plan is to update the existing SPCC Plan dated June 2007, which was prepared by Chip Cates of Rockcastle. The Plan describes the oil-containing equipment in place at the facility and the procedures that are employed by CEMEX to prevent oil discharges from entering into or upon the navigable waters. Implementation of this Plan will ensure the proper management for oil use, storage, handling and disposal to: 1) prevent spills or discharge of oil into navigable waters, 2) control and contain spills if they do occur in order to prevent or to minimize the quantity of spilled material entering into or upon the navigable waters, and 3) coordinate clean-up activities. It is the purpose of this Plan to outline the reporting requirements for spills and accidental discharges of oil that must be reported to federal and state agencies having regulatory responsibility for such spills and/or discharges.

This Plan and supporting data and notes (collectively referred to hereinafter as "information") were gathered and/or prepared in accordance with generally accepted engineering and scientific practices in effect at the time of the assessment of the site. CEMEX shall maintain a copy of this SPCC Plan at the Demopolis Plant.

1.1.1 Regulatory Authority

Section 311 of the Federal Water Pollution Control Act/Clean Water Act established the authority upon which the United States Environmental Protection Agency (USEPA) issued regulations entitled Oil Pollution Prevention (40 CFR 112).

1.1.2 40 CFR 112

The regulations presented in 40 CFR 112, dated July 17, 2002, and subsequent amendments, require that non-transportation related onshore and offshore facilities that could reasonably be expected to discharge oil into navigable waters of the United States (U.S.) or adjoining shorelines prepare and implement an SPCC Plan designed to prevent the aforementioned discharge of oil in such quantities that may be harmful (as defined in 40 CFR 110.3), into navigable waters of the U.S. or adjoining shorelines as defined in 40 CFR 112.2.

40 CFR 112.2 defines oil to include *"...oil of any kind or in any form, including, but not limited to: fats, oils, or greases of animal, fish, or marine mammal origins; vegetable oils, including oils from seeds, nuts, fruits, or kernels; and other oils and greases, including petroleum, fuel oil, sludge, synthetic oils, mineral oils, oil refuse or oil mixed with wastes other than dredged spoil."*

In preparation and review of this SPCC Plan, it is important to properly use and understand the following terms:

"Discharge" includes but is not limited to, any spilling, leaking, pumping, pouring, emitting, emptying or dumping of oil." *[112.2]*

"Harmful discharges of oil into navigable waters of the United States" as defined in **40 CFR 110.3**, includes discharges of oil that:

a. Violate applicable water quality standards; or

b. Cause a film or sheen upon or discoloration of the surface of the water or adjoining shorelines or cause a sludge or emulsion to be deposited beneath the surface of the water or upon adjoining shorelines.

***"Navigable Waters** of the United States means "navigable waters" as defined in section 502(7) of the FWPCA, and includes:*

(1) All navigable waters of the United States, as defined in judicial decisions prior to passage of the 1972 Amendments to the FWPCA (Pub. L. 92-500), and tributaries of such waters;

(2) Interstate waters;

(3) Intrastate lakes, rivers, and streams which are utilized by interstate travelers for recreational or other purposes; and

(4) Intrastate lakes, rivers, and streams from which fish or shellfish are taken and sold in interstate commerce.

1.1.3 Applicability [40 CFR 112.1; 112.3(a)]

Facilities subject to **40 CFR 112** include those which either:

- Have an aboveground oil storage capacity in excess of 1,320 gallons (including only containers with a capacity of 55 U.S. gallons or greater); and
- Can reasonably expect a discharge to reach navigable waters of the U.S.; or
- Have an underground storage capacity in excess of 42,000 gallons of oil and are not subject to all the technical requirements of 40 CFR Part 280 or approved State program.

The CEMEX Demopolis Plant contains bulk storage tanks with a total aboveground oil containing capacity greater than 1,320 gallons. This volume represents an aboveground oil storage capacity in excess of the above-listed thresholds that under certain conditions has the potential for a spill that could reach navigable waters of the U.S., and is therefore subject to Part 112.

1.2 Professional Engineer Certification – 40 CFR 112.3(d)

[112.3(d)]A licensed Professional Engineer must review and certify a Plan for it to be effective to satisfy the requirements of this part.
(1) By means of this certification the Professional Engineer attests:
(i) That he is familiar with the requirements of this part;
(ii) That he or his agent has visited and examined the facility;
(iii) That the Plan has been prepared in accordance with good engineering practice, including consideration of applicable industry standards, and with the requirements of this part;
(iv) That procedures for required inspections and testing have been established; and
(v) That the Plan is adequate for the facility.
(2) Such certification shall in no way relieve the owner or operator of a facility of his duty to prepare and fully implement such Plan in accordance with the requirements of this part.

I hereby certify that I, DOUGLAS J. VARNON, along with my designee, Chip Cates P.G, examined the facility, and being familiar with the provisions of 40 Code of Federal Regulations Part 112, attest that this Spill Prevention, Control, and Countermeasures (SPCC) Plan has been prepared in accordance with good engineering practice including consideration of applicable industry standards and the requirements of this part, that procedures for required inspections and testing have been established in the SPCC Plan and the SPCC Plan is adequate for this facility.

Engineer: DOUGLAS J. VARNON

Signature:

Registration Number: AL 27030

State: Alabama

Date: 3/28/2016

1.3 Location of SPCC Plan – 40 CFR 112.3(e)

[112.3(e)] If you are the owner or operator of a facility for which a Plan is required under this section, you must: (1) Maintain a complete copy of the Plan at the facility if the facility is normally attended at least four hours per day, or at the nearest field office if the facility is not so attended, and (2) Have the Plan available to the Regional Administrator for on-site review during normal working hours.

All records required to be maintained pursuant to this SPCC Plan shall be retained in the facility's "Operating Records" for a period of three years from the date they are prepared. After that time they may be destroyed.

A copy of this SPCC Plan shall be maintained on-site, and this Plan shall be made available for inspection to the regulatory agency upon request.

1.4 Emergency Spill Notifications – 40 CFR 112.4 (a)

[112.4(a)(b)] If you are the owner or operator of a facility subject to this part, you must: (a) Notwithstanding compliance with 112.3, whenever your facility has discharged more than 1,000 U.S. gallons of oil in a single discharge as described in 112.1 (b), or discharged more than 42 U.S. gallons of oil in each of two discharges as described in 112.1(b), occurring within any twelve month period, submit the following information to the Regional Administrator within 60 days from the time the facility becomes subject to this section:

If the facility discharges oil into or upon the navigable waters of the U.S. or adjoining shorelines which exceeds more than 1,000 U.S. gallons of oil in a single spill event (per 40 CFR Part 112), or two spill events of 42 U.S gallons or more within any 12-month period, the Emergency Coordinator shall submit, within 60 days, a written report to the USEPA Regional Administrator as required by **40 CFR Part 112.4**. This report will contain the following information:

- Name of the facility;
- Name(s) of the owner or operator of the facility;
- Location of the facility;
- Maximum volume of oil stored on-site;
- Description of the facility, including maps, flow diagrams, and topographical maps;
- The cause(s) of such discharge, including a failure analysis of system or subsystem in which the failure occurred;
- The corrective actions and/or countermeasures taken, including an adequate description of equipment repairs and/or replacements;
- Additional preventive measures taken or contemplated to minimize the possibility of recurrence; and
- Such other information as the Regional Administrator may reasonably require pertinent to the Plan or spill event.

The report shall be sent to:

Regional Administrator
USEPA – Region 4
Sam Nunn Atlanta Federal Center
61 Forsyth Street, SW
Atlanta, Georgia 30303
(404) 562-9900
(800) 241-1754

1.4.1 Amendment of SPCC Plan by Regional Administrator – 40 CFR 112.4 (d)

[112.4(d)] Amend your Plan, if after review by the Regional Administrator of the information you submit under paragraph (a) of this section, or submission of information to EPA by the State agency under paragraph (c) of this section, or after on-site review of your Plan, the Regional Administrator requires that you do so. The Regional Administrator may require you to amend your Plan if he finds that it does not meet the requirements of this part or that amendment is necessary to prevent and contain discharges from your facility.

A written report shall be submitted to the USEPA Administrator – Region 4 within 60 days of a discharge of more than 1,000 gallons of oil into or upon the navigable waters of the U.S. or adjoining shorelines in a single discharge event or discharges of 42 gallons of oil into or upon the navigable waters of the U.S. or adjoining shorelines in two discharge events occurring within any twelve month period. The USEPA may require amendment of the SPCC Plan as a result of the written report submitted pursuant to this paragraph.

The information required in the written report, and the potential actions, which may result, as described in 40 CFR 112.4, are in Section 2.10 of this Plan.

1.5 SPCC Plan Review and Amendment History – 40 CFR 112.5 (a)-(b)

[112.5(a)-(b)] (a) Amend the SPCC Plan for your facility in accordance with the general requirements in §112.7, and with any specific section of this part applicable to your facility, when there is a change in the facility design, construction, operation, or maintenance that materially affects its potential for a discharge as described in §112.1(b). (b) Notwithstanding compliance with paragraph (a) of this section, complete a review and evaluation of the SPCC Plan at least once every five years from the date your facility becomes subject to this part; or, if your facility was in operation on or before August 16, 2002, five years from the date your last review was required under this part. As a result of this review and evaluation, you must amend your SPCC Plan within six months of the review to include more effective prevention and control technology if the technology has been field-proven at the time of the review and will significantly reduce the likelihood of a discharge as described in §112.1(b) from the facility. You must implement any amendment as soon as possible, but not later than six months following preparation of any amendment. You must document your completion of the review and evaluation, and must sign a statement as to whether you will amend the Plan, either at the beginning or end of the Plan or in a log or an appendix to the Plan. The following words will suffice, "I have completed review and evaluation of the SPCC Plan for (name of facility) on (date), and will (will not) amend the Plan as a result."

1.5.1 Amendment of Plan by Owner – 40 CFR 112.5(a)

CEMEX shall amend this SPCC Plan whenever there is a change in facility design, construction, operation, or maintenance, which materially affects the facility's potential to discharge oil upon the navigable waters of the U.S. or adjoining shorelines. Examples of changes that may require amendment of the Plan include, but are not limited to installation, removal, replacement, reconstruction, or movement of oil containing equipment. Such amendments made under this section must be prepared within 6 months, and be fully implemented as soon as possible, but not later than 6 months after such changes occur. A certified Professional Engineer must certify technical amendments to this Plan in accordance with 40 CFR 112.3(d).

Such changes shall be noted on the Review and Amendment Log included as Appendix A of this SPCC Plan. Entries made in the Review and Amendment Log will include the following information:

- The date of the change at the facility;
- A general description of those changes requiring amendment of the existing SPCC Plan (an additional description of changes can be inserted as an attachment to the log, if necessary);
- A listing of those pages of the SPCC Plan which were modified and/or affected;
- The signature of the person responsible for amending the plan; and
- A notation as to whether the changes were significant enough to warrant re-certification by a Professional Engineer.

Pages of the existing SPCC Plan that require revision will be noted on the Review and Amendment Log with the date of the change. The revisions documented on the log will supersede those SPCC Plan pages previously noted.

1.5.2 Five-Year Plan Review – 40 CFR 112.5(b)

The SPCC Plan shall be reviewed and evaluated for consistency with the facility's operations and discharge potential at least once every 5 years. Completion of this review will be noted with an entry in the Five-Year SPCC Plan Review and Amendment Log (Appendix B). If, as a result of this review, it is determined that this SPCC Plan accurately reflects the current facility operations, spill potential and spill response and prevention measures (as of the time of the review), then the entry made in the Five Year SPCC Plan Review and Amendment Log shall indicate that no changes were made. This entry will include the signature of the SPCC Plan reviewer.

Minor changes, such as name changes of CEMEX personnel or general facility information do not require certification of the SPCC Plan by a Professional Engineer. However, these must still be noted in the Review and Amendment Log (Appendix A).

1.6 Spill History

Historically, the facility has never experienced a spill event as defined in 40 CFR 112.

2.0 General Requirements – 40 CFR 112.7

[112.7] If you are the owner or operator of a facility subject to this part you must prepare a Plan in accordance with good engineering practices. The Plan must have the full approval of management at a level of authority to commit the necessary resources to fully implement the Plan. You must prepare the Plan in writing. If you do not follow the sequence specified in this section for the Plan, you must prepare an equivalent Plan acceptable to the Regional Administrator that meets all of the applicable requirements listed in this part, and you must supplement it with a section cross-referencing the location of requirements listed in this part and the equivalent requirements in the other prevention plan. If the Plan calls for additional facilities or procedures, methods, or equipment not yet fully operational, you must discuss these items in separate paragraphs, and must explain separately the details of installation and operational start-up.

2.1 Statement of Management Approval – 40 CFR 112.7

I hereby certify that I am at a level of management within CEMEX Southeast LLC, with the authority to, and do, hereby commit the necessary manpower, equipment, and materials to implement this SPCC Plan in accordance with the provisions set forth.

Authorized Facility Representative: **Alejandro Perez**

Title: Plant Manager (CEMEX Southeast LLC – Demopolis Plant)

Signature: _____

Date Signed: 3/31/16

2.2 Statement of Facility Conformance with 40 CFR 112 – 40 CFR 112.7(a)(1-2)

[112.7] As detailed elsewhere in this section, you must also:
(a)(1) Include a discussion of your facility's conformance with the requirements listed in this part.
(2) Comply with all applicable requirements listed in this part. Your Plan may deviate from the requirements in paragraphs (g), (h)(2) and (3), and (i) of this section and the requirements in subparts B and C of this part, except the secondary containment requirements in paragraphs (c) and (h)(1) of this section, and §§112.8(c)(2),112.8(c)(11), 112.9(c)(2), 112.10(c), 112.12(c)(2), 112.12(c)(11),112.13(c)(2), and 112.14(c), where applicable to a specific facility, if you provide equivalent environmental protection by some other means of spill prevention, control, or countermeasure. Where your Plan does not conform to the applicable requirements in paragraphs (g), (h)(2) and (3), and (i) of this section, or the requirements of subparts B and C of this part, except the secondary containment requirements in paragraphs (c) and (h)(1) of this section, and §§112.8(c)(2), 112.8(c)(11), 112.9(c)(2), 112.10(c), 112.12(c)(2), 112.12(c)(11), 112.13(c)(2), and 112.14(c), you must state the reasons for nonconformance in your Plan and describe in detail alternate methods and how you will achieve equivalent environmental protection. If the Regional Administrator determines that the measures described in your Plan do not provide equivalent environmental protection, he may require that you amend your Plan, following the procedures in §112.4(d) and (e).

This SPCC Plan includes provisions for controls, containment and diversionary structures, monitoring equipment, personnel training programs, inspection and record keeping, security, and spill cleanup procedures.

This SPCC Plan has been prepared in accordance with 40 CFR 112 and is in accordance with good engineering practices, has the full approval of management to commit the resources necessary to implement the Plan, was designed in general accordance with applicable industry standards and, details those engineering design and operational procedures and practices in place at each site to prevent and/or contain a potential spill.

This document provides a ready reference for operating personnel on the provisions for discharge prevention and control at each site. It will be used as an information resource when regulatory agency personnel visit the site for inspection purposes.

2.3 Facility Characteristics – 112.7(a)(3)

[112.7(a)(3)] Describe in your Plan the physical layout of the facility and include a facility diagram, which must mark the location and contents of each fixed oil storage container and the storage area where mobile or portable containers are located. The facility diagram must identify the location or and mark as "exempt" underground tanks that are otherwise exempted from the requirements of this part under §112.1(d)(4). The facility diagram must also include all transfer stations and connecting pipes, including intra-facility gathering lines that are otherwise exempted from the requirements of this part under §112.1(d)(11). You must also address in your Plan:
(i) The type of oil in each fixed container and its storage capacity. For mobile or portable containers, either provide the type of oil and storage capacity for each container or provide an estimate of the potential number of mobile or portable containers, the types of oil, and anticipated storage capacities;
(ii) Discharge prevention measures including procedures for routine handling of products (loading, unloading, and facility transfers, etc.);
(iii) Discharge or drainage controls such as secondary containment around containers and other structures, equipment, and procedures for the control of a discharge;
(iv) Countermeasures for discharge discovery, response, and cleanup (both the facility's capability and those that might be required of a contractor);
(v) Methods of disposal of recovered materials in accordance with applicable legal requirements; and
(vi) Contact list and phone numbers for the facility response coordinator, National Response Center, cleanup contractors with whom you have an agreement for response, and all appropriate Federal, State, and local agencies who must be contacted in case of a discharge as described in §112.1(b).

CEMEX Southeast, LLC (CEMEX) is the owner and operator of the Demopolis Plant. CEMEX manufactures Portland cement and mines on-site limestone and shale at this location. A topographic map indicating the site location is included in **Figure 1**. A site layout map for this facility is included in **Figure 2**. The site layout map locates the building structures, all outfall points at which storm water are discharged from the site, and the surface water, which receives the discharges.

The manufacturer of Portland cement primarily involves the crushing, grinding, and blending of limestone and other raw materials into a chemically proportioned mixture, which is heated in a rotary kiln at extremely high temperatures to produce pellets about 0.5 inch in diameter. The pellets, known as clinker, are cooled and interground with a small amount of gypsum to produce finish cement. CEMEX generally uses coal, tires, alternative fuels, and natural gas as the fuel for the kiln.

Petroleum products and admixture chemicals are generally received by transport trucks and delivered into various aboveground storage tanks or are received in containers.

Table 2-1 presents general information on this facility, including the individual who is responsible for enforcing the SPCC Plan.

Table 2-1 General Facility Information

Facility Name:	CEMEX Southeast, LLC – Demopolis Plant
Facility Address:	1617 Arcola Road Demopolis, AL 36732
Owner/Operator:	CEMEX Southeast, LLC
Industry Type:	Cement Manufacturing Facility and Quarry Activities S.I.C. Codes 3241, 1422 and 1459
Site Location:	East side of Demopolis, AL
Acreage:	Cement Plant and On-site Quarry - Approximately 860 acres
Approximate Latitude:	N 32° 30' 50"
Approximate Longitude:	W 87° 48' 55"
Operating Schedule:	24 hours/day; 7 days/week
Number of Employees:	Approximately 90 employees
Largest AST:	150,000 gallons
Number of ASTs:	10 Petroleum ASTs and 6 Non-Petroleum ASTs

Designated Person Responsible For Enforcing SPCC Plan

Contact:	Mike Gandy	**Work Phone**	334-287-3537
Title:	Environmental Manager	**Cell Phone:**	334-422-1076

2.4 Facility Storage Capacity (Including Oil Storage Containers (ASTs, Drums, Totes) and Oil-Filled Operating Equipment/Transformers – 112.7(a)(3)(i)-(vi)

(i) The type of oil in each container and its storage capacity. For mobile or portable containers, either provide the type of oil and storage capacity for each container or provide an estimate of the potential number of mobile or portable containers, the types of oil, and anticipated storage capacities;

Oil and fuel products are stored at the facility in interior and exterior ASTs in various locations with capacities ranging from 250 to 80000 gallons, and in 55-gallon drums. There are 10 active ASTs at the Demopolis Plant containing petroleum-based products and 14 oil-filled operating equipment/transformers.. (Note: There are 5 active ASTs containing non-petroleum based products.) The largest of these tanks is approximately 150,000 gallons. The ASTs and drums are stored in various locations throughout the plant. Lesser amounts of oil, less than 55-gallons, are used in various pieces of equipment. A description of petroleum storage at the facility can be found in **Tables 2-2** and **2-3**, and a description of non-petroleum storage can be found in **Table 2-4**. The locations of these tanks are described in the table and are identified in **Figure 2**.

Oil and fuel products also are necessary for equipment operations at the site. Oil and fuel products are contained in heavy equipment used in mining operations, compressors located in various buildings at the facility, and two transformers located at the facility, as well as other oil-filled operational equipment. A description of oil-filled operating equipment, including transformers, can be found in **Table 2-5**.

2.5 Discharge Prevention Measures – 112.7(a)(3)(ii)

(ii) Discharge prevention measures including procedures for routine handling of products (loading, unloading, and facility transfers, etc.);

2.5.1 General Release Detection

CEMEX personnel are frequently in the vicinity of the interior and exterior storage tanks, and other equipment, as part of daily operations. Additionally, Site personnel make a thorough visual inspection of the entire Site for indications of leaks or releases on a monthly basis. A copy of the Monthly Inspection Form is located in Appendix C.

2.5.2 Oil Transfer and Loading/Unloading Procedures

The unloading of fuel and oil tanker trucks occurs at the facility; however, no bulk loading occurs at the facility. Oil transfers are only performed under the supervision of trained CEMEX personnel. Unloading operations are conducted only during dry weather conditions, if possible. Absorbent materials are located near the bulk loading/unloading areas so that prompt spill containment can be achieved during transfer operations, if required. Potential spills will be contained and cleaned up immediately. Loading/unloading procedures to prevent discharges are detailed in Section 2.18.

2.6 Discharge or Drainage Controls – 112.7(a)(3)(iii)

(iii) Discharge or drainage controls such as secondary containment around containers and other structures, equipment, and procedures for the control of a discharge;

Generally, site drainage flows north and north west towards the Black Warrior River, which flows south. Site drainage also flows towards French Creek, which flows north across the eastern end of the property and which enters the Black Warrior River near the cement plant. All accumulated water inside secondary containment areas around the oil storage tanks is usually allowed to evaporate. If needed, it can be removed with a portable pump. Surface flows outside of containment areas are managed by various aboveground and underground drainage systems that direct flow toward the permitted outfalls.

2.7 Countermeasures – 112.7(a)(3)(iv)

(iv) Countermeasures for discharge discovery, response, and cleanup (both the facility's capability and those that might be required of a contractor);

2.7.1 Discharge Discovery

A major oil release during loading/unloading activities will be noticed immediately by the unloading attendants. Smaller leaks will be detected by site personnel during regularly scheduled inspections or daily site activities. In the event of a leak or if a spill is detected, CEMEX personnel will take appropriate measures to safely stop and contain the spill. If necessary, the CEMEX Environmental Manager identified in Section 2.9 will be notified.

2.7.2 Discharge Response and Cleanup

The person, who discovers the spill, if properly trained, is expected to minimize the impacts of the spill by safely attempting to shut off the source or contain it. However, safety is the first priority. If the person who is initially responding does not feel safe, his or her efforts should be discontinued until additional help arrives. Upon stopping the source, the Environmental Manager should be notified. The person discovering the spill must use their best judgment as to what can be safely done to mitigate impacts until additional support arrives.

It is the responsibility of the Environmental Manager to determine if notification is necessary and whether outside assistance is needed. Telephone numbers of internal and external sources of assistance are presented in the Emergency Spill Notification section of this SPCC Plan (Section 2.9).

2.7.3 Emergency Spill Equipment

This facility is prepared to recover a spill incident on its property and maintain the necessary equipment at this facility for spill clean-up and product recovery. Equipment necessary for spill recovery, which is typically stored at this facility, includes the following:

- Bulk cement kiln dust or ckd – to encircle a spill and prevent migration;
- Bagged Sorbent – to recover small spills; and
- Heavy equipment – bulldozers, front end loader, skid steer loaders and miscellaneous hand tools.

This equipment shall be located on-site at, near or adjacent to the oil, petroleum products or admixture chemical storage tanks or containers. The equipment shall be maintained for its proper use during a spill event.

2.8 Recovered Material Disposal – 112.7(a)(3)(v)

(v) Methods of disposal of recovered materials in accordance with applicable legal requirements;

Disposal of recovered materials (absorbents, rags, oil/water mixtures, contaminated soil and gravel, etc.) will be conducted in accordance with appropriate and applicable regulations and as directed by the Environmental Manager. Released material will likely not create wastes that must be treated as hazardous wastes. Fifty-five-gallon drums or other appropriate containers will be used to collect and contain contaminated materials.

Containers will be transported and disposed in accordance with applicable federal, state, and local regulations associated with waste transport, manifesting, and disposal. Appropriate documentation will be maintained.

2.9 Facility Emergency Contacts – 112.7(a)(3)(vi)

(vi) Contact list and phone numbers for the facility response coordinator, National Response Center, cleanup contractors with whom you have an agreement for response, and all appropriate Federal, State, and local agencies who must be contacted in case of a discharge as described in §112.1(b).
Part 110-Discharge of Oil: 110.10 Notice. Any person in charge of a vessel or of an onshore or offshore facility shall, as soon as he or she has knowledge of any discharge of oil from such vessel or facility in violation of §110.6, immediately notify the National Response Center (NRC) (800)-424-8802; in the Washington, DC metropolitan area, 426-2675). If direct reporting to the NRC is not practicable, reports may be made to the Coast Guard or EPA pre-designated On-Scene Coordinator (OSC) for the geographic area where the discharge occurs. All such reports shall be promptly relayed to the NRC. If it is not possible to notify the NRC or the pre-designated OCS immediately, reports may be made immediately to the nearest Coast Guard unit, provided that the person in charge of the vessel or onshore or offshore facility notifies the NRC as soon as possible. The reports shall be made in accordance with such procedures as the Secretary of Transportation may prescribe. The procedures for such notice are set forth in U.S. Coast Guard regulations, 33 CFR part 153, subpart B and in the National Oil and Hazardous Substances Pollution Contingency Plan, 40 CFR Part 300, subpart E.

2.9.1 Internal Notification Procedures

If a spill occurs, determine if an **"emergency condition"** exists, defined as follows:

Any condition which could reasonably be expected to endanger the health and safety of the public; cause significant adverse impact to the land, water (sheen on water) or air environment; or cause severe damage to property.

If an emergency condition exists, immediately contact the personnel identified in the CEMEX Emergency Spill Notification Management table below. The CEMEX Emergency Coordinator is responsible for contacting all appropriate agencies (Section 2.9.2) as required.

If the discharge is not an emergency condition as identified above, take appropriate actions to stop the discharge at its source and contain the discharged material. CEMEX Emergency Spill Notification Management should be notified of the discharge within 4 hours after learning of the discharge.

After the spill has been properly cleaned up, the Environmental Manager will prepare a Spill Incident Report (Appendix D), recording the details of the incident. Additionally, the List of Spills and Leaks table (Appendix E) will be updated to describe the event after each significant spill incident.

CEMEX Demopolis Facility Safety Emergency Spill Notification Management

Name	Title or Position	Office Phone	Alternate Phone
Mike Gandy	Environmental Manager	(334) 287-3537	(334) 422-1076
Sam Justice	Environmental Specialist	(334) 287-3546	(334) 507-3089

2.9.2 External Notification Procedures

The Emergency Coordinator shall immediately notify the agencies listed below should an emergency condition exist or if the discharge has reached the waters of the U.S., in quantities as defined by 40 CFR Part 110,

- Any spill that violates applicable water quality standards;
- Any spill that causes a film or sheen upon or discoloration of the surface of the water or adjoining shoreline; or
- Any spill that causes a sludge or emulsion to be deposited beneath the surface of the water or upon adjoining shorelines.

USEPA National Response Center (24 hr) - (800) 424-8802
Demopolis Fire/Police Department - 911

2.9.3 24-Hour Emergency Response

When contacted about a discharge, CEMEX Emergency Spill Notification Management personnel will assess the situation and determine the appropriate response for spill cleanup and containment. It is expected that the facility is capable of handling all spills in-house and outside contractors are not expected to be utilized to assist in spill response. However, if a spill response should exceed CEMEX spill response capabilities, CEMEX Emergency Spill Notification Management personnel must contact a 24-hour emergency response company to assist in spill containment and/or cleanup. Listed below is the contact information for Safety Kleen in case of an emergency spill and cleanup and containment.

24-Hour Emergency Response Company

Name	Address	Office Phone	24 – Hour
SWS Environmental Services	1897 Floyd Bradford Road Trussville, AL 35173	**(205) 833-3407**	**(877) 742-4215**

2.10 Emergency Reporting Information – 112.7(a)(4)

[112.7(a)(4)] Unless you have submitted a response plan under §112.20, provide information and procedures in your Plan to enable a person reporting a discharge as described in §112.1(b) to relate information on the exact address or location and phone number of the facility; the date and time of the discharge, the type of material discharged; estimates of the total quantity discharged; estimates of the quantity discharged as described in §112.1(b); the source of the discharge; a description of all affected media; the cause of the discharge; any damages or injuries caused by the discharge; actions being used to stop, remove, and mitigate the effects of the discharge; whether an evacuation may be needed; and, the names of individuals and/or organizations who have also been contacted.

When notifying an outside agency of a reportable spill event, document and report the following information:

- Name of Contact Person;
- Facility Address;
- Facility Phone Number;
- Date and time of discharge;
- Type of material discharged;
- Estimates of the quantity discharged;
- Source of the discharge;
- Description of affected media (land, water, etc.);
- Cause of the discharge;
- Damages or injuries caused by the discharge;
- Action being taken to stop, remove, and mitigate the effects of the discharge;
- Whether an evacuation may be needed; and
- Name of individuals and/or organizations that have been contacted.

2.11 Emergency Spill Procedures – 40 CFR 112.7 (a)(5)

[112.7(a)(5)] Unless you have submitted a response plan under §112.20, organize portions of the Plan describing procedures you will use when a discharge occurs in a way that will make them readily usable in an emergency, and include appropriate supporting material as appendices.

As soon as any employee has knowledge of any non-permitted releases (i.e., spills, leaks, etc.) of any oil, petroleum product or admixture chemicals, the employee must implement the response procedures described in this section. In the event of a spill, facility employees who have been specially trained will form the spill response team. These personnel will respond to the situation with the necessary equipment to control the spill as quickly as possible. The immediate objective of the spill response actions is to protect the environment by:

- Containing the spill to the smallest possible area;
- Preventing potential ignition of the released material; and
- Recovering and packaging the spilled materials.

If an oil spill occurs outside an aboveground storage tank or equipment containment area, the following procedures should be initiated immediately:

- The first person discovering the spill will notify the area supervisor. If a spill or release can be stopped immediately by turning off a valve, shutting down a pump, setting a container upright, etc., then this response shall be performed prior to contacting the area supervisor.
- The area supervisor will identify the character, source and amount of released material. When practical, the supervisor also should notify the Manager of Environmental Affairs.
- The area supervisor will cease operations, if necessary, and take all necessary steps to prevent releases from occurring or recurring including monitoring for leaks, pressure buildup, or ruptures in valves, pipes, or other equipment, wherever this is appropriate.
- In the event of a release in a container storage area, the container will first be examined to determine whether leakage is the cause of the spill. If the container has leaked, the contents will be removed and placed into another container; the leaking container will be repaired, if possible, or replaced in accordance with applicable standards; or, the leaking container will be placed into an over pack container.
- Released materials will be cleaned up as soon as is practicable. Where appropriate, the facility may utilize a pump to collect the spilled material into suitable containers. Any residual material will be removed by means such as but not limited to using an absorbent such as, but not limited to, kiln dust to absorb the material.
- The spill area will be cleaned up by removing the spilled material and/or absorbing agents. The absorbing agents and spill materials will be placed in appropriate containers and properly managed.
- The secondary containment areas may then be decontaminated, if necessary, using a high-pressure wash or another appropriate decontamination method such as, but not limited to, a detergent wash.
- The facility will perform a visual inspection of the soils surrounding the containment area where a spill has occurred.
- If a release outside the containment area is detected, the facility will isolate the spill area by closing off the source (if possible), and containing the spill utilizing cement/kiln dust, spill booms or other appropriate containment materials. This material will then be collected as described above.
- If soils are affected, the facility will remove all visual contamination. All visibly contaminated soils will be removed and disposed of properly.
- The equipment utilized during the emergency response will be decontaminated.
- The area supervisor will ensure that released materials which are removed are not mixed with incompatible materials.
- The area supervisor will ensure that all emergency equipment in the affected areas has been decontaminated or replaced and fit for its intended use.

2.12 Failure Analysis – 40 CFR 112.7 (b)

[112.7(b)] Where experience indicates a reasonable potential for equipment failure (such as loading or unloading equipment, tank overflow, rupture, or leakage, or any other equipment known to be a source of a discharge), include in your Plan a prediction of the direction, rate of flow, and total quantity of oil which could be discharged from the facility as a result of each type of major equipment failure.

2.12.1 Prediction of Direction, Rate of Flow, and Quantity of Discharge

The nearest navigable water is the Black Warrior River, located immediately north of the site. It is unlikely a major release from the CEMEX facility would reach surface water due to petroleum storage volumes, location of storage units, and the spill prevention controls. However, 40 CFR 112 requires that likely spills be evaluated for the potential to reach navigable water. The CEMEX Demopolis Plant was evaluated for the potential of spills to reach navigable waters.

Discharges from the storage tanks can occur as a result of structural failure, vandalism and/or oil/fuel transfer activities. The most likely major release of oil/fuel from the storage tanks would be from transfer activities.

Small oil discharges will be readily identified during the on-site inspections, as well as during routine facility operations. When discovered, discharges will be promptly collected, contained, and/or pumped into temporary on-site suitable labeled containers until the appropriate disposal measures are implemented. If the discharge is not easily contained and cleaned up, CEMEX will respond by using their on-site emergency spill response equipment, equipment brought to the site by a response vehicle, and/or the services of off-site spill response personnel and equipment.

All storage tanks have been provided with effective controls (i.e., dikes, spill control equipment, etc.) to prevent the release of petroleum products to waterways as described in Section 2.13.

In most cases tank overfill, leak, or rupture would be the most common types of major failure that could cause petroleum discharge from a storage tank at rates of one gallon per minute to instantaneous catastrophic failure. If a spill would breach the secondary containment measures that are currently in place for each container then the spill would flow primarily north to northeast across the site. Since the plant is built directly on the Selma chalk downward migration into the subsurface environment would be minimal. Additional controls implemented at the site to minimize impacts to navigable waters include spill control and cleanup equipment and materials available at the site; and filling and transfer operations at the site are supervised by trained Site personnel.

Table 2-6, as well as Table 2-5, describes the specific potential for discharge(s) and the likely spill pathways for each spill source.

2.13 Description of Secondary Containment and Diversionary Structures – 40 CFR 112.7(c)

[112.7(c)] Provide appropriate containment and/or diversionary structures or equipment to prevent a discharge as described in §112.1(b), except as provided in paragraph (k) of this section for qualified oil-filled operational equipment, and except as provided in §112.9(d)(3) for flowlines and intra-facility gathering lines at an oil production facility. The entire containment system, including walls and floor, must be capable of containing oil and must be constructed so that any discharge from a primary containment system, such as a tank or pipe, will not escape the containment system before cleanup occurs. In determining the method, design, and capacity for secondary containment, you need only to address the typical failure mode, and the most likely quantity of oil that would be discharged. Secondary containment may be either active or passive in design. At a minimum, you must use one of the following prevention systems or its equivalent:

(1) For onshore facilities:
(i) Dikes, berms, or retaining walls sufficiently impervious to contain oil;
(ii) Curbing or drip pans;
(iii) Sumps and collection systems;
(iv) Culverting, gutters, or other drainage systems;
(v) Weirs, booms, or other barriers;
(vi) Spill diversion ponds;
(vii) Retention ponds; or
(vii) Sorbent materials.

A description of secondary containment and/or diversionary systems is listed in **Tables 2-2** and **2-3** in this section. These containment and/or diversionary systems provide a means by which an immediate release of oil from oil-containing units at the facility is contained until spill clean-up measures can be implemented.

The diversionary measures and/or secondary containment at the facility consist of the following components:

- Secondary containment;
- Absorbent materials; and
- Sufficient flooring, walls, and roofing.

As indicated previously, integral secondary containment is provided to the exterior ASTs by the double-walled steel construction; to the interior ASTs and drums the secondary containment structures and enclosed containment areas..

2.14 Alternatives to Secondary Containment – 40 CFR 112.7(d)

[112.7(d)] If you determine that the installation of any of the structures or pieces of equipment listed in paragraphs (c) and (h)(1) of this section, and §§112.8(c)(2), 112.8(c)(11), 112.9(c)(2), 112.10(c), 112.12(c)(2), 112.12(c)(11), 112.13(c)(2), and 112.14(c) to prevent a discharge as described in §112.1(b) from any onshore or offshore facility is not practicable, you must clearly explain in your Plan why such measures are not practicable; for bulk storage containers, conduct both periodic integrity testing of the containers and periodic integrity and leak testing of the valves and piping; and, unless you have submitted a response plan under §112.20, provide in your Plan the following:
(1) An oil spill contingency plan following the provisions of part 109 of this chapter.
(2) A written commitment of manpower, equipment, and materials required to expeditiously control and remove any quantity of oil discharged that may be harmful.

The facilities and structures described in this report are sufficient to prevent oil spills from reaching surface waters. In the unlikely event of a release, employees will follow the Emergency Spill Procedures as described in Section 2.11 of this Plan.

Bulk cement kiln dust is readily available at or near each oil storage area on the site. Skidsteer loaders can be used to quickly move the sorbent material or other similar items useful in the abatement of a release.

Preventive Maintenance

The company's standard operating procedures include an active preventive maintenance program that is managed by the Maintenance Manager. The facility's Preventive Maintenance (PM) program includes regular inspection and testing of facility equipment and operational systems.

2.15 Inspections, Tests, and Records [40 CFR 112.7(e)]

[112.7(e)] Inspections, tests, and records. *Conduct inspections and tests required by this part in accordance with written procedures that you or the certifying engineer develop for the facility. You must keep these written procedures and a record of the inspections and tests, signed by the appropriate supervisor or inspector, with the SPCC Plan for a period of three years. Records of inspections and tests kept under usual and customary business practices will suffice for purposes of this paragraph.*

All oil, petroleum product, and admixture storage/unloading/transfer areas are inspected on a monthly basis. The inspection program is designed to identify potential malfunctions or spills/leaks. Depending on whether the potential problem necessitates immediate response, the inspector may recommend follow-up actions in an appropriate manner within 24 hours, or as soon as possible, of locating the potential problem. A Spill Inspection Report shall be utilized on a monthly basis and maintained in the facility's "Operating Records." A copy of this form is included as Appendix C. Inspection records are maintained for a period of three years.

2.16 Personnel, Training, and Discharge Prevention Procedures – 40 CFR 112.7 (f)

[112.7(f)] Personnel, training, and discharge prevention procedures.
(1) At a minimum, train your oil-handling personnel in the operation and maintenance of equipment to prevent discharges; discharge procedure protocols; applicable pollution control laws, rules, and regulations; general facility operations; and, the contents of the facility SPCC Plan. (2) Designate a person at each applicable facility who is accountable for discharge prevention and who reports to facility management. (3) Schedule and conduct discharge prevention briefings for your oil-handling personnel at least once a year to assure adequate understanding of the SPCC Plan for that facility. Such briefings must highlight and describe known discharges as described in §112.1(b) or failures, malfunctioning components, and any recently developed precautionary measures.

2.16.1 Personnel Training and Discharge Prevention Procedures

CEMEX has developed and implemented a personnel training program that has been designed to train all facility operating personnel, including supervisory personnel, with the operation of the facility to prevent accidents and releases to the environment. This includes training on the contents of this SPCC Plan, and applicable pollution control regulations. Annual spill prevention training is conducted for oil-handling personnel to ensure adequate understanding of spill prevention and response requirements in accordance with the SPCC Rule. Spill prevention briefings may also be conducted during regular safety meetings as necessary to provide up-to-date training for spill prevention and response. A record of the employee training is included in the facility's "Operating Records."

2.16.2 Person(s) Responsible for Spill Prevention & Emergency Response

The Environmental Manager is designated as the person responsible for ensuring spill prevention, control, and response measures detailed in this SPCC Plan are implemented; adequate training is provided; necessary improvements are made; and the Plan is maintained and updated. The Environmental Manager is responsible

for keeping track of significant changes in the facility design, construction, operation, or maintenance, which materially affect the potential discharge of oil at the facility.

In the event of a discharge of oil, the Environmental Manager is responsible for coordinating response actions; coordinating containment, control and response activities; internal emergency notifications as detailed in this Plan; and serve as the primary on-site contact for local emergency response contractors or agencies. The facility's Emergency Spill Notification Management personnel are identified in Section 2.9.

2.17 Security – 40 CFR 112.7(g)

[112.7(g)] Security (excluding oil production facilities). *Describe in your plan how you secure and control access to the oil handling, processing and storage areas; secure master flow and drain valves; prevent unauthorized access to starter controls on oil pumps; secure out-of-service and loading/unloading connections of oil pipelines; and address the appropriateness of security lighting to both prevent acts of vandalism and assist in the discovery of oil discharges.*

Access to the facility is controlled by a combination of natural and manmade barriers. The facility security measures for spill prevention are described below.

- Plant personnel are on-site 24 hours a day, 7 days a week and the facility is never left unattended. Oil, petroleum products, and admixtures chemical storage areas are generally located in operating areas with continuous presence of plant personnel.
- Working areas are well lighted with appropriate illumination.
- The unloading connections of above ground piping must be securely capped or blank-flanged when not in use during extended shutdowns.

2.18 Facility Tank Car and Tank Truck Loading/Unloading Operation – 40 CFR 112.7(h)

[112.7(h)] Facility tank car and tank truck loading/unloading rack (excluding offshore facilities). *(1) Where loading/unloading area drainage does not flow into a catchment basin or treatment facility designed to handle discharges, use a quick drainage system for tank car or tank truck loading and unloading areas. You must design any containment system to hold at least the maximum capacity of any single compartment of a tank car or tank truck loaded or unloaded at the facility. (2) Provide an interlocked warning light or physical barrier system, warning signs, wheel chocks, or vehicle break interlock system in loading/unloading areas to prevent vehicles fro departing before complete disconnection of flexible or fixed oil transfer lines. (3) Prior to filling and departure of any tank car or tank truck, closely inspect for discharges the lowermost drain and all outlets of such vehicles, and if necessary, ensure that they are tightened, adjusted, or replaced to prevent liquid discharge while in transit.*

Tank truck unloading operations for bulk oil, petroleum products, and admixtures chemicals occur at the Demopolis Plant. In order to prevent spills from occurring during unloading, the facility personnel shall utilize the following procedures:

1. Personnel will use drip pans or buckets to collect drippage, where necessary.

2. Prior to commencement of loading or unloading from a tanker truck:

    - By the way of a physical barrier system, the cargo tank wheels shall be securely chocked to prevent vehicular departures before complete disconnect of lines;
    - If the vehicle cab remains attached, the vehicle handbrake shall be securely set;

- Designated personnel will check the level of the tanks prior to delivery truck connection to assure sufficient capacity to accept quantities to be delivered;
- Outlets on vehicles shall be checked for leakage before unloading.

3. A cargo tank must be attended at all times during the loading or unloading transfer process. The attendees shall be the delivery driver, a contractor or CEMEX employee familiar with tank truck loading and unloading procedures.

4. During the loading or unloading transfer process, the cargo tank attendee must:

   - Be alert;
   - Have an unobstructed view of the cargo tank;
   - Be within 25 feet of the cargo tank;
   - Be familiar with procedures to be followed in an emergency; and
   - Use drip pans or buckets to collect drippage where necessary.

5. Upon completion of the loading or unloading transfer process, the tanker truck attendee shall ensure that:

   - All manhole closures on the truck are closed and secured;
   - All valves and other closures in liquid discharge systems are closed and free of leaks; and
   - Hoses are disconnected.

6. Prior to departure of any tank truck, the lowest drain and all outlets of such vehicle shall be closely examined for leakage; and, if necessary, tightened, adjusted, or replaced to prevent liquid spillage while in transit.

Spills, which may occur during loading or unloading operations, should be cleaned up promptly to preclude release of constituents to the environment. All unloading areas are inspected on a monthly basis. The inspection records are maintained in the facility's "Operating Records."

2.19 Field-Constructed Aboveground Container Repair [40 CFR 112.7(i)]

[112.7(i)] If a field-constructed aboveground container undergoes a repair, alteration, reconstruction, or a change in service that might affect the risk of a discharge or failure due to brittle fracture or other catastrophe, or has discharged oil or failed due to brittle fracture failure or other catastrophe, evaluate the container for risk of discharge or failure due to brittle fracture or other catastrophe, and as necessary, take appropriate action.

There are no field-constructed aboveground containers at the CEMEX facility; therefore, this section does not apply.

2.20 Conformance with State Requirements [40 CFR 112.7(j)]

[112.7(j)] In addition to the minimal prevention standards listed under this section, include in your Plan a complete discussion of conformance with the applicable requirements and other effective discharge prevention and containment procedures listed in this part or any applicable more stringent State rules, regulations, and guidelines.

This SPCC Plan is in conformance with state requirements.

2.21 Qualified Oil-Filled Operational Equipment [40 CFR 112.7(k)]

[112.7(k)]The owner or operator of a facility with oil-filled operational equipment that meets the qualification criteria in paragraph (k)(1) of this sub-section may choose to implement for this qualified oil-filled operational equipment the alternate requires as described in paragraph (k)(2) of this sub-section in lieu of general secondary containment required in paragraph (c) of this section. (1) Qualification Criteria – Reportable Discharge History: The owner or operator of a facility that has had no single discharge as described in § 112.1(b) from any oil-filled operational equipment exceeding 1,000 U.S. gallons or no two discharges as described in § 112.1(b) from any oil-filled operational equipment each exceeding 42 U.S. gallons within any twelve month period in the three years prior to the SPCC Plan certification date, or since becoming subject to this part if the facility has been in operation for less than three years (other than oil discharges as described in § 112.1(b) that are the result of natural disasters, acts of war or terrorism); and (2) Alternative Requirements to General Secondary Containment. *If secondary containment is not provided for qualified oil-filled operational equipment pursuant to paragraph (c) of this section, the owner or operator of a facility with qualified oil-filled operational equipment must: (1) Establish and document the facility procedures for inspections or a monitoring program to detect equipment failure and/or a discharge; and (ii) Unless you have submitted a response plan under § 112.20, provide in your Plan the following: (A) An oil spill contingency plan following the provisions of part 109 of this chapter. (B) A written commitment of manpower, equipment, and materials required to expeditiously control and remove any quantity of oil discharged that may be harmful.*

CEMEX implements an inspection program as part of routine operation and preventative maintenance procedures for oil product storage containers and oil-filled operating equipment (including transformers). These inspections are conducted to identify malfunctions, deterioration, operator error, and potential discharges that may cause or lead to spills of oil product. The oil-filled operating equipment is visually inspected monthly for the presence of leaks, drips or indication of structural deterioration. Additionally, maintenance employees visually inspect the oil-filled operating equipment on a routine basis.

CEMEX has developed spill response procedures (i.e. countermeasures) for all employees to follow in the event of an accidental release of oil products. The immediate objective of quick spill response is to 1) contain the spill to the smallest possible area; 2) prevent potential ignition of the released material; and 3) recover and properly dispose of the spill materials.

The facilities and structures described in this report are sufficient to prevent oil spills from reaching surface waters. In the unlikely event of a release, employees will follow the Emergency Spill Procedures as described in Section 2.11 of this Plan. Employees are trained to follow these procedures when they discover an oil spill or leak.

Bulk cement kiln dust absorbent material is readily available near the larger oil-filled operating equipment on the site. Skid steer loaders can be used to quickly move the absorbent as needed to contain any release.

Table 2-2 Aboveground Petroleum Storage Tanks

Tank Description	Product	Tank Volume (gallons)	Location/ Description	Location (as indicated on map)	Overfill Protection / Spill Prevention
P2	#2 Diesel	2,000	Systech Tank Farm in Containment A	5	The tank is located within a concrete secondary containment. The containment is large enough to hold the entire tank and is designed to exclude precipitation. The volume in the tank is measured prior to any tank additions.
P3	Gasoline	500	Systech Tank Farm in Containment A	5	The tank is located within a concrete secondary containment. The containment is large enough to hold the entire tank and is designed to exclude precipitation. The volume in the tank is measured prior to any tank additions.
P4	#2 Diesel	500	(Portable) Packhouse and base of preheater	1 &16	The tanks are doubled walled
Q1	#2 Diesel	12,000	Quarry containment B	12	The tank is located within a concrete block secondary containment. The containment is large enough to hold the entire tank and is designed to exclude precipitation. The volume in the tank is measured prior to any tank additions.
Q2	Oily water	470	Quarry Containment B	18	The tank is located in a concrete vault containing the oil/water separator. The containment is large enough to hold the entire tank and is designed to exclude precipitation .
Q4	Used Oil	1,000	Quarry shop – outside on Containment B	13	The tank is on a concrete wash slab that drains to a sump and then an oil/water separator
Q5	Oil (empty)	250	(Portable) Quarry Shop	13	Not in use
P13	#6 Fuel Oil	80,000	South of Systech tank farm		The tank is located in a diked area. The tank is empty and out of service

*NOTES: Equipment with volumes of oil less than 55 gallons is not included.

Table 2-3 Typical Inventory of Petroleum Products Stored in Containers

Location	Product	Container Description	Total Volume (Approximate)	Overfill Protection
P8 Systech warehouse	Oil	(~ 150) 55 gallon drums	8,250 gallons	The oil storage building has a concrete floor with curb designed to contain more than the contents of the largest container within that building. The building is totally enclosed which minimizes rainfall entering the area.
P6 Systech used oil storage area	Used Oil	(3) 275 gallon totes	825 gallons	The used oil storage area is in a metal building designed to contain more than the contents of the largest container within that area building. A roof is over the area and enclosure on 3 sides, which minimizes rainfall entering the area.
Q3 Quarry Shop	Oil	(8) 55 gallon drums	440 gallons	The drums are stored in an enclosed building with a concrete floor.
Plant wide	Oil	(30) 55 gallon drums	1,650 gallons	All drums located throughout the plant are stored inside the enclosed building on a concrete floor. building. A roof is over the building, minimizes rainfall entering the area.

Table 2-4 Aboveground Non-Petroleum Storage Tanks

Tank Description	Product	Tank Volume (gallons)	Location/ Description	Location (as indicated on map)	Overfill Protection / Spill Prevention
P1	Grinding Aid (Empty Out of service)	(2) 150,000 Total - 300,000	Systech Tank Farm in Containment A	5	Petroleum products are not stored in this tank and therefore this tank is not subject to the SPCC requirements. . However, this tank has been added to the plan so that effective spill response procedures are available for all tanks at the Facility regardless of the tank contents. The tank is located within a concrete secondary containment. The containment is large enough to hold the entire tank and is designed to exclude precipitation. The tanks are empty and out of service..
P14	Grinding Aid	7,500	Office cooling tower at NE corner of finish mill building	3	Petroleum products are not stored in this tank and therefore this tank is not subject to the SPCC requirements. . However, this tank has been added to the plan so that effective spill response procedures are available for all tanks at the Facility regardless of the tank contents. The tank is located within a concrete block secondary containment. The containment is large enough to hold the entire tank and is designed to exclude precipitation. The volume in the tank is measured prior to any tank additions.
P15	Calcium Chloride	10,000	South of homo silos		Petroleum products are not stored in this tank and therefore this tank is not subject to the SPCC requirements. . However, this tank has been added to the plan so that effective spill response procedures are available for all tanks at the Facility regardless of the tank contents. The plastic tank is outside on a concrete slab. The tank has no secondary containment . The tank has both remote electronic monitoring level control and a visual sight tube.

Table 2-4 Aboveground Non-Petroleum Storage Tanks

Tank Description	Product	Tank Volume (gallons)	Location/ Description	Location (as indicated on map)	Overfill Protection / Spill Prevention
P7	Lab alcohol waste mixture (Hazardous Waste) EPA waste code:D001	(1) 55 gallon drum Total- 55	Lab- outside backdoor	9	Petroleum products are not stored in this tank and therefore this tank is not subject to the SPCC requirements The drum is stored on the second floor of the mill building right outside the lab door.
P16 P17	Propane Propane	6,000 1,000	South of Homo silos	12	Gauge and spew valve at 80% capacity

Table 2-5 Oil-Filled Operating Equipment

Description	Location	Contents	Total Volume (Gallons) (Approx.)	Location (as indicated on map)	Spill Prevention & Controls	Flow Direction
P10	(6) Top of Main ESPs (3) Top of Bypass ESP	Transformer oil	(9) 110 gal Total Main- 660 Total Bypass- 330	Main – 6 Bypass - 11	Units are located outside on top of a steel roof. No secondary containment. Absorbent material is readily available nearby	Spill running off the roof would flow west or north onto concrete pavement.
P11	Finish Mill 1&2 oil reservoirs	Oil	(4) 250 Total- 1,000	7	Unit located with the mill building, no floor drains, no secondary containment. Building would hold a large spill. Area is monitored each shift. Absorbent material is readily available nearby.	Spill exiting the building would flow north or east onto concrete pavement.
P12	Raw Mill oil reservoir	Oil	750	8	Unit located with the mill building, no floor drains, no secondary containment. Building would hold a large spill. Area is monitored each shift. Absorbent material is readily available nearby.	Spill exiting the building would flow west onto concrete pavement.
Q7	Old Quarry water pumps transformer	Transformer oil	275	2	Unit located outside No secondary containment Large spill would run into Old Quarry Sedimentation Pond.	Spill would flow north
Q6	Quarry water pump transformers	Transformer oil	(2) 275 Total- 550	14	Units located outside No secondary containment Large spill would run into the New Quarry Sedimentation Basin	Spill would flow south
P5	Electric shop emergency	Diesel	250	10	Unit located with the mill building, no floor drains, no secondary containment. Building	Spill would flow east onto concrete

	generator				would hold a large spill. Absorbent material is readily available nearby	pavement
P18	Kiln Emergency Generator	Diesel	480	14	Unit located inside the #3 kin pier, no floor drains, no secondary containment. Absorbent material is readily available nearby	Spill would flow north onto concrete pavement

Table 2-6 Analysis for Potential Spills – Prediction and Control – 40 CFR 112.7 (b)&(c)

Source	Major Type of Failure	Location	Tank Volume (gallons)	Rate (gallons per minute)	Direction of Flow	Secondary Containment
P2, #2 Diesel	Tank Overfill, Leak, or Rupture	Systech Tank Farm in Containment A	2,000	1 to 2,000	A spill would be contained within the concrete containment area. If spill would penetrate the containment, then it would flow southwest across the plant and pool on the surface.	Concrete Containment
P3, Gasoline	Tank Overfill, Leak, or Rupture	Systech Tank Farm in Containment A	500	1 to 500	A spill would be contained within the concrete containment area. If spill would penetrate the containment, then it would flow southwest across the plant and pool on the surface	Concrete Containment
P4, #2 Diesel	Tank Overfill, Leak, or Rupture	(Portable) Packhouse and base of preheater	500	1 to 500	A spill would be contained within the double-walled tank structure. If spill would penetrate the double-walled steel, then spill would flow east across the plant and pool on the surface.	Double-walled steel
Q1, #2 Diesel	Tank Overfill, Leak, or Rupture	Quarry yard inside containment B	12,000	1 to 12,000	A spill would be contained within the concrete containment area. If spill would penetrate the containment, then it would flow south west across the quarry and pool on the surface.	Concrete block containment
Q2, Used Oil	Tank Overfill, Leak, or Rupture	Quarry shop located in oil/water separator concrete vault	470	1 to 470	A spill would be contained within the sump of the oil/water separator. room. If spill would penetrate the oil/water separator, then it would flow south t across the quarry and pool on the surface.	Enclosed in concrete vault

Table 2-6 Analysis for Potential Spills – Prediction and Control – 40 CFR 112.7 (b)&(c)

Source	Major Type of Failure	Location	Tank Volume (gallons)	Rate (gallons per minute)	Direction of Flow	Secondary Containment
Q4 Used Oil	Tank Overfill, Leak, or Rupture	Quarry shop outside east wall on containment C Garage	1000	1 to 1000	A spill would be contained within the sump of the oil/water separator. room. If spill would penetrate the oil/water separator, then it would flow south t across the quarry and pool on the surface.	Located on wash slab sloped to oil/water separator
Q7, Oil (empty)	Tank Overfill, Leak, or Rupture	Quarry shop	250	1 to 250	Not in use	Enclosed in building on concrete slab

3.0 Requirements for Onshore Facilities (Excluding Production Facilities) – 40 CFR 112.8

[112.8] If you are the owner or operator of an onshore facility (excluding a production facility), you must:
(a) Meet the general requirements for the Plan listed under §112.7, and the specific discharge prevention and containment procedures listed in this section.

3.1 Facility Drainage – 40 CFR 112.8(b)

[112.8(b)] Facility drainage. *(1) Restrain drainage from diked storage areas by valves to prevent a discharge into the drainage system or facility effluent treatment system, except where facility systems are designed to control such discharge. You may empty diked areas by pumps or ejectors; however, you must manually activate these pumps or ejectors and must inspect the condition of the accumulation before starting, to ensure no oil will be discharged.*

The Demopolis Plant is located immediately south of the Black Warrior River. The entire quarry and plant facilities drain into a series of ditches, and sedimentation ponds, which provide a means for positive containment and/or control of potential Spills as well as stormwater. Permitted discharges include the following:

- Outfall 001 – Storm water from plant and quarry drains to Old Quarry and has a pumped discharge.
- Outfall 002 – Coal Barge Unloading Area Quarry drains into Black Warrior River. NO petroleum products stored in this area. Equipment out of service.

.

[112.8(b)] Facility drainage. *(2) Use valves of manual, open-and-closed design, for the drainage of diked areas. You may not use flapper-type drain valves to drain diked areas. If your facility drainage drains directly into a watercourse and not into an on-site wastewater treatment plant, you must inspect and may drain uncontaminated retained storm water, as provided in paragraphs (c)(3)(ii), (iii), and (iv) of this section.*

No valves in diked areas. Accumulated rain water is allowed to evaporate..

[112.8(b)] Facility drainage. *(3) Design facility drainage systems from undiked areas with a potential for a discharge (such as where piping is located outside containment walls or where tank truck discharges may occur outside the loading area) to flow into ponds, lagoons, or catchment basins designed to retain oil or return it to the facility. You must not locate catchment basins in areas subject to periodic flooding.*

The majority of oil containing equipment in undiked areas exists within buildings or enclosed structures which prevents oil contact with storm water and provides additional containment within the structure. Any spills outside of secondary containment structures are controlled through berming, grading, and drainage routing.

[112.8(b)] Facility drainage. *(4) If facility drainage is not engineered as in paragraph (b)(3) of this section, equip the final discharge of all ditches inside the facility with a diversion system that would, in the event of an uncontrolled discharge, retain oil in the facility.*

The facility has diversionary controls consisting of berming, grading, and drainage routing in place to minimize and capture releases outside of secondary containment.

[112.8(b)] Facility drainage. *(5) Where drainage waters are treated in more than one treatment unit and such treatment is continuous, and pump transfer is needed, provide two "lift" pumps and permanently install at least one of the pumps. Whatever techniques you use, you must engineer facility drainage systems to prevent a discharge as described in §112.1(b) in case there is an equipment failure or human error at the facility.*

This section is not applicable to the facility.

3.2 Bulk Storage Tanks – 40 CFR 112.8(c)

[112.8(c)] Bulk storage containers. (1) Not use a container for the storage of oil unless its material and construction are compatible with the material stored and conditions of storage such as pressure and temperature.

All tank materials of construction are compatible with the materials stored in relation to temperature and pressure. ASTs are installed in a location and manner that will minimize corrosion and damage to the tanks and associated piping.

[112.8(c)] Bulk storage tank containers. (2) Construct all bulk storage tank installations (except mobile refuelers and other non-transportation-related tank trucks) so that you provide a secondary means of containment for the entire capacity of the largest single container and sufficient freeboard to contain precipitation. You must ensure that diked areas are sufficiently impervious to contain discharged oil. Dikes, containment curbs, and pits are commonly employed for this purpose. You may also use an alternative system consisting of a drainage trench enclosure that must be arranged so that any discharge will terminate and be safely confined in a facility catchment basin or holding pond.

Pursuant to 40 CFR 112.7(c), secondary containment may include a containment dike, equivalent device, or dedicated spill control equipment. Bulk storage tanks for petroleum products and admixture chemicals are provided with adequate protection so as to contain all spills and prevent any spilled material from entering state waters. Containment dikes or other containment structures are sufficient to hold the contents of the largest single tank within the containment area plus precipitation. Dike walls and floors are sufficiently impervious to contain tank contents and prevent seepage into the soil and possibly the groundwater.

[112.8(c)] Bulk storage containers. (3) Not allow drainage of uncontaminated rainwater from the diked area into a storm drain or discharge of an effluent into an open watercourse, lake, or pond, bypassing the facility treatment system unless you:
(i) Normally keep the bypass valve sealed closed.
(ii) Inspect the retained rainwater to ensure that its presence will not cause a discharge as described in §112.1(b).
(iii) Open the bypass valve and reseal it following drainage under responsible supervision; and
(iv) Keep adequate records of such events, for example, any records required under permits issued in accordance with §§122.41(j)(2) and 122.41(m)(3) of this chapter.

Only manual open and closed design valves are used. .Plant allows accumulated rain water to evaporate..

Drainage from the surrounding storage areas is described in Section 2.12.

[112.8(c)] Bulk storage containers. (4) Protect any completely buried metallic storage tank installed on or after January 10, 1974 from corrosion by coatings or cathodic protection compatible with local soil conditions. You must regularly leak test such completely buried metallic storage tanks.

This paragraph is not applicable to the site. There are no completely buried metallic storage tanks at this facility.

[112.8(c)] Bulk storage containers. (5) Not use partially buried or bunkered metallic tanks for the storage of oil, unless you protect the buried section of the tank from corrosion. You must protect partially buried and bunkered tanks from corrosion by coatings or cathodic protection compatible with local soil conditions.

This paragraph is not applicable to the site. There are no partially buried or bunkered tanks at this facility

[112.8(c)] Bulk storage containers. (6) Test each aboveground container for integrity on a regular schedule, and whenever you make material repairs. The frequency of and type of testing must take into account container size and design (such as floating roof, skid-mounted, elevated, or partially buried). You must combine visual inspection with another testing technique such as hydrostatic testing, radiographic testing, ultrasonic testing, acoustic emissions testing, or another system of non-destructive shell testing. You must keep comparison records and you must also inspect the container's supports and foundations. In addition, you must frequently inspect the outside of the container for signs of deterioration, discharges, or accumulation of oil inside diked areas. Records of inspections and tests kept under usual and customary business practices will suffice for purposes of this paragraph.

Storage tanks are subject to periodic integrity testing by visual inspections as described in Section 2.5.

[112.8(c)] Bulk storage containers. (7) Control leakage through defective internal heating coils by monitoring the steam return and exhaust lines for contamination from internal heating coils that discharge into an open watercourse, or pass the steam return or exhaust lines through a settling tank, skimmer, or other separation or retention system.

This paragraph is not applicable to the site.

[112.8(c)] Bulk storage containers. (8) Engineer or update each container installation in accordance with good engineering practice to avoid discharges. You must provide at least one of the following devices:
(i) High liquid level alarms with an audible or visual signal at a constantly attended operation or surveillance station. In smaller facilities an audible air vent may suffice.
(ii) High liquid level pump cutoff devices set to stop flow at a predetermined container content level.
(iii) Direct audible or code signal communication between the container gauger and the pumping station.
(iv) A fast response system for determining the liquid level of each bulk storage container such as digital computers, telepulse, or direct vision gauges. If you use this alternative, a person must be present to monitor gauges and the overall filling of bulk storage containers.
(v) You must regularly test liquid level sensing devices to ensure proper operation.

Where practical and appropriate, additional spill and leak prevention and control measures have been installed on selected tanks (e.g., electronic level monitoring, direct vision gauges, etc.).

[112.8(c)] Bulk storage containers. (9) Observe effluent treatment facilities frequently enough to detect possible system upsets that could cause a discharge as described in §112.1(b).

Effluent discharges are regularly monitored in accordance with the facility's National Pollutant Discharge Elimination System (NPDES) Permit AL0027341 Any system upsets would be detected and resolved to prevent a discharge as described in 112.1(b).

[112.8(c)] Bulk storage containers. (10) Promptly correct visible discharges which result in a loss of oil from the container, including but not limited to seams, gaskets, piping, pumps, valves, rivets, and bolts. You must promptly remove any accumulations of oil in diked areas.

All visible discharges of oil will be corrected immediately and any accumulations of oil in diked areas will be removed immediately.

[112.8(c)] Bulk storage containers. (11) Position or locate mobile or portable oil storage containers to prevent a discharge as described in §112.1(b). You must furnish a secondary means of containment, such as a dike or catchment basin, sufficient to contain the capacity of the largest single compartment or container with sufficient freeboard to contain precipitation.

Portable storage containers are used for the storage of used oil. The containers are stored within the buildings on a concrete slab.

3.3 Facility Transfer Operations, Pumping, and Facility Process – 40 CFR 112.8(d)

[112.8(d)] Facility transfer operations, pumping, and facility process. *(1) Provide buried piping that is installed or replaced on or after August 16, 2002, with a protective wrapping and coating. You must also cathodically protect such buried piping installations or otherwise satisfy the corrosion protection standards for piping in part 280 of this chapter or a State program approved under part 281 of this chapter. If a section of buried line is exposed for any reason, you must carefully inspect it for deterioration. If you find corrosion damage, you must undertake additional examination and corrective action as indicated by the magnitude of the damage.*

The following measures are implemented at this facility to maintain the integrity of the facility's petroleum piping and transfer operations:

1. Underground Piping (UGP)

There are no in service buried UGP installations used for above ground petroleum storage tanks.

2. Aboveground Piping (AGP)

All areas utilizing AGP are inspected on a monthly basis. The inspection records are maintained in the facility's "Operating Records."

4.0 Facility Response Plan – 40 CFR 112.20

4.1 Certification of Substantial Harm Determination - 40 CFR 112.20

Section 112.20(e) of the facility response plan regulation requires that all facilities regulated by the Oil Pollution Prevention Regulation (40 CFR part 112) conduct an initial screening to determine whether they are required to develop a facility response plan. The criteria in this checklist can be found in 40 CFR 112.20(f)(1). Facilities should include this form with their SPCC Plan.

Pursuant to the Oil Prevention Act of 1990, facilities which store oil and/or petroleum products in bulk quantities (greater than 1,000,000 gallons), or which transfer oil and/or petroleum products over water, and which pose the potential for substantial harm to the environment as a result of a worst case discharge of these materials during storage or transfer, are required to prepare a Facility Response Plan, which is consistent with 40 CFR 112.20.

Facilities not meeting these criteria must complete a Certification of Substantial Harm Determination form and maintain this form as part of the facility's SPCC Plan. This Certification of Substantial Harm Determination form must be reviewed every 5 years and an updated.

The CEMEX facility does not meet the criteria specified in the Certification of Substantial Harm Determination. A complete Certification of Substantial Harm Determination Checklist is provided below in Section 4.1.1.

4.1.1 Certification of the Applicability of the Substantial Harm Criteria Checklist

Facility Name: **CEMEX Southeast LLC, Demopolis Plant, 1617 Arcola Road, Demopolis Alabama 36732**

If the answer to one or more of the following questions is yes, the facility is required to implement a Facility Response Plan (FRP) under the requirements of 40 CFR 112.20 (Chapter 5.0 of the SPCC Plan). If all answers are no, an FRP is not required and this form should be signed and inserted into the SPCC Plan. Every 5 years, the Certification of Substantial harm should be re-certified as part of the five-year review/inspection to indicate no change in the status of the site regarding 112.20.

1. Does the facility transfer oil over water to or from vessels (ships) and does the facility have a total oil storage capacity greater than or equal to 42,000 gallons?

   YES _____ NO _X_

2. Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and does the facility lack secondary containment that is sufficiently large to contain the capacity of the largest above ground oil storage tank plus sufficient freeboard to allow for precipitation within any above ground oil storage tank area?

   YES _____ NO _X_

3. Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and is the facility located at a distance such that a discharge from the facility could cause injury to fish and wildlife and sensitive environments?

   YES _____ NO _X_

4. Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and is the facility located at a distance such that a discharge from the facility would shut down a navigable drinking water intake?

   YES _____ NO _X_

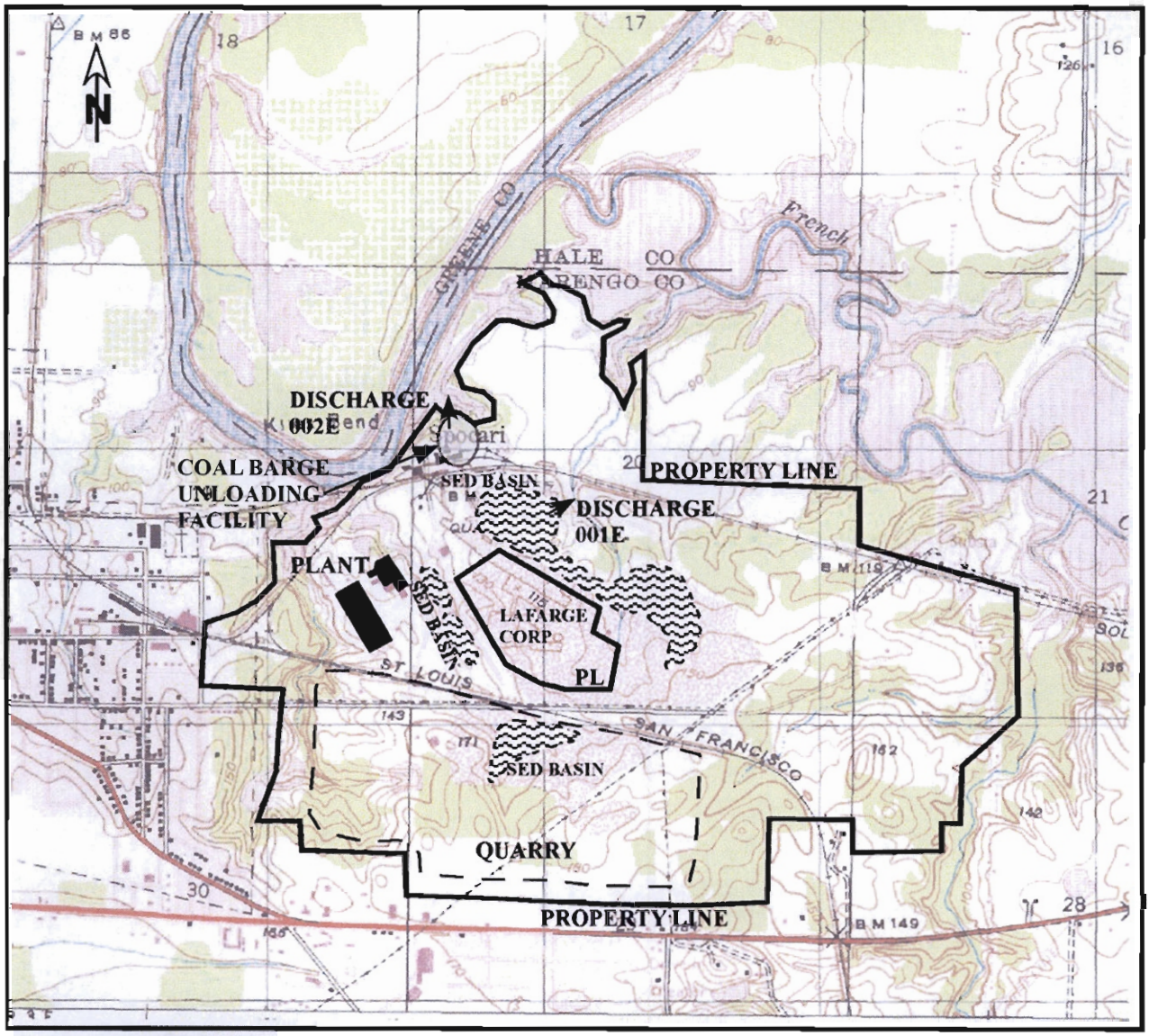
5. Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and has the facility experienced a reportable oil spill in an amount greater than or equal to 10,000 gallons within the last 5 years?

   YES _____ NO _X_

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate, and complete

Mike Gandy	Environmental Manager
Name (printed or typed)	Title
Mike Gandy	3-29-16
Signature	Date

Figures

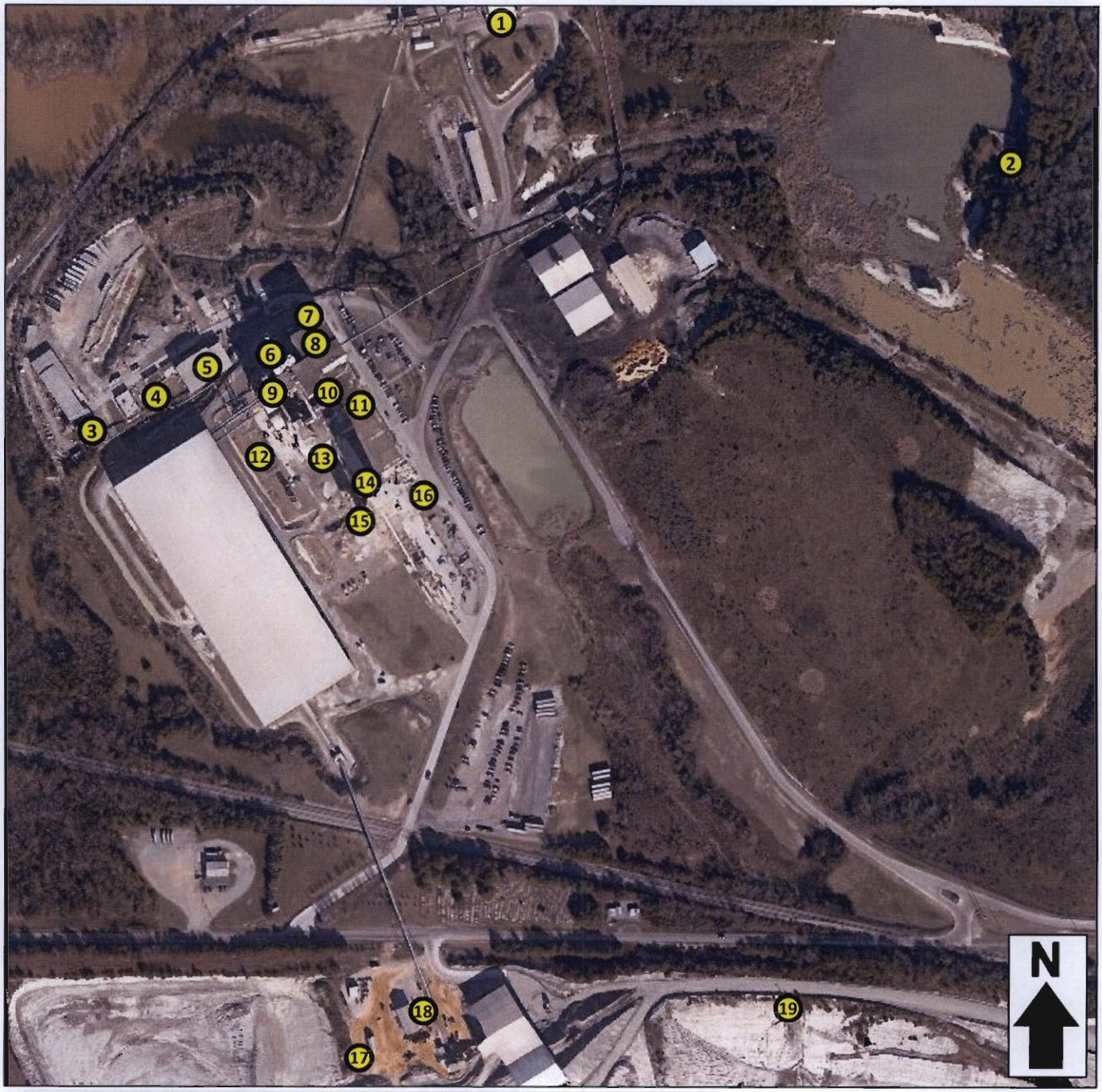


SCALE: [redacted] =2000'
DEMOPOLIS QUADRANGLE
CEMEX SOUTHEAST, LLC
DEMOPOLIS QUARRY
MARENGO COUNTY, ALABAMA
T18N, R3E, S19, 20, 21, 28, 29, & 30

rockcastle consulting, llc
Wetlands • Survey • Land Management • Environmental

March 27, 2016

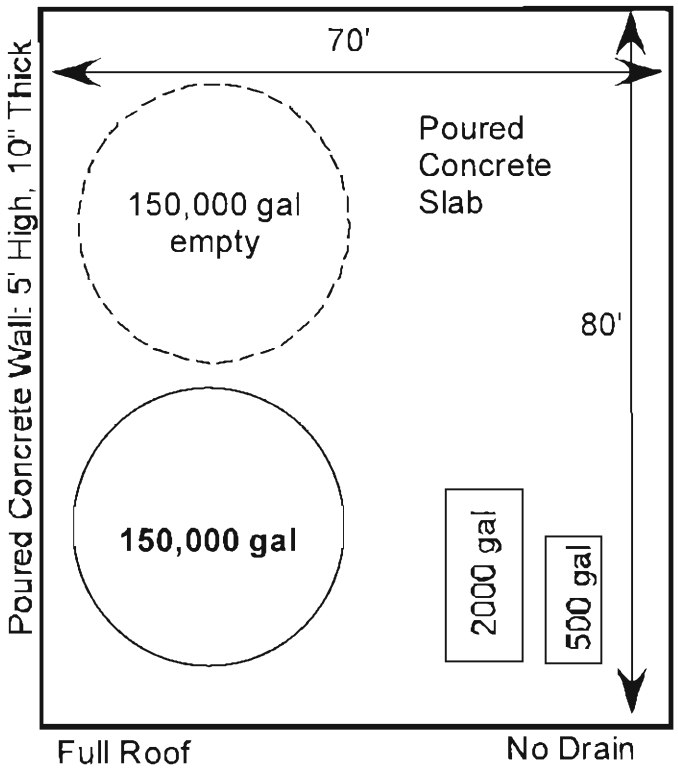
POINT	LATITUDE	LONGITUDE
001E	32° 31' 00"N	87° 48' 27"W
002E	32° 31' 12"N	87° 48' 47"W



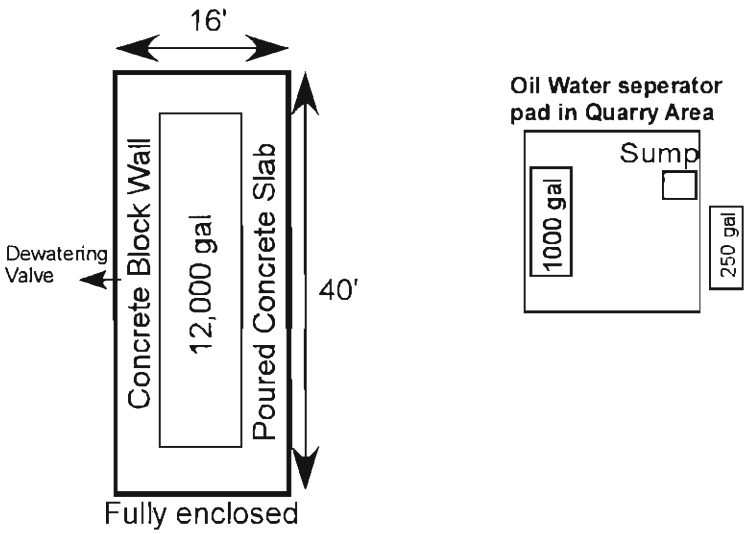
Map #	Tank ID	Gallons	Contents	Location
5	P1	(2) 150,000	Empty	Tank farm (containment A)
5	P2	(1) 2,000	Diesel	Tank farm (containment A)
5	P3	(1) 500	Gasoline	Tank farm (containment A)
1 & 16	P4	(2) 500	Diesel	Base of cement silos & preheater usually
11	P5	(1) 250	Diesel	Electric shop generator
3	P6	(3) 275	Waste oil	Systech warehouse
10	P7	(1) 55	Lab hazardous waste	Outside of back lab door
3	P8	(150) 55	Lube oil/grease/waste oil	Systech warehouse
various	P9	(30) 55	Lube oil/grease/waste oil	Various locations around plant
6 & 15	P10	(9) 110	Transformer oil	(6)Top of Main ESPs (3) Top of Bypass ESP
8	P11	(4) 250	Lube oil	Finish Mill 1 & 2 oil reservoirs
9	P12	(1) 750	Lube oil	Raw Mill Reducer oil reservoir
4	P13	(1) 80,000	Empty	Systech west of tank farm
7	P14	(1) 7,500	Grinding aid	Office cooling tower containment
13	P15	(1) 10,000	Calcium chloride	South side of Homo silos
12	P16	(1) 6,000	Propane	West of Homo silos
12	P17	(1) 1,000	Propane	West of Homo silos
14	P18	(1) 480	Diesel	Kiln emergency generator
17	Q1	(1) 12,000	Diesel	Quarry (containment B)
18	Q2	(1) 470	Oily water	Oil/water separator outside quarry shop
18	Q3	(8) 55	Lube oil	Quarry shop (inside)
18	Q4	(1) 1,000	Waste oil	Quarry shop (outside) (containment B)
18	Q5	(1) 250	Empty	Quarry shop (inside)
19	Q6	(2) 275	Transformer oil	Quarry water pumps
2	Q7	(1) 275	Transformer oil	Old Quarry pumps

CEMEX Southeast, LLC
Demopolis Plant
SPCC - Tank Location Map
Figure 2
May 2016

Containment A: 150,000 gallon Grinding Aid Tanks, 2000 gallon Diesel & 500 gallon Gasoline. Located at Systech (north of plant).



Containment B: 12,000 gallon Diesel, 250 gallon & 1,000 gallon Waste Oil. Located at Quarry.



Appendix A

Review and Amendment Log

[40 CFR 112.5(A)]
SPCC Plan Review and Amendment Log

Date of Review or Amendment	General Description of Changes Made (if any)	Page Numbers of Changes Made	Re-Certification by P.E. (yes/no)	Signature of Reviewer
December 2003	Plan updated to include coal barge unloading.	All	Yes	
August 2005	Renewal application. Changed name to Cemex Southeast LLC, updated plant personnel	All	Yes	
October. 2010	Renewal application and changes in personnel and updated tank list	All	Yes	
October 2013	Amended plan to change Plant Manager to Gary Pinault and Production Manger to Walt Weninegar	1 and Attachment C	No	

If re-certification by a Professional Engineer is required, a new certification page (Section 1.2) must be completed and inserted into this SPCC Plan.

Appendix B

Five-Year Review and Amendment Log

[40 CFR 112.5 (B)]
SPCC Plan Five-Year Review/Evaluation Form

I have completed a review and evaluation of the SPCC Plan for the CEMEX, Demopolis Plant on _____ and ____I _____ will not amend the Plan as a result.

(date)

Signature: _____

Printed Name: Mike Gandy _____ Title: Environmental Manager

I have completed a review and evaluation of the SPCC Plan for the CEMEX, Demopolis Plant on _____, and _____will _____will not amend the Plan as a result.

(date)

Signature: _____

Printed Name: _____ Title: Environmental Manager

Appendix C

Monthly Inspection Form

SPILL INSPECTION REPORT

Date: _____ Time: _____ Performed by: _____

Storage Tanks (Tank ID)	Overfill/Spill Control Structures/ Equipment in Good Order	Evidence of Leakage, Corrosion or Spills	Comments	Assigned To	Due Date
P1 2-150,000 gallon Grinding Aid tanks Containment A (empty)					
P2 1-2,000 gallon Diesel tank Containment A					
P3 1-500-gallon Gasoline tank Containment A					
P4 2-500-gallon Diesel tank at packhouse					
P5 250-gallon Diesel tank in Electric shop					
P6 3-275-gallon Used Oil totes at Systefch					
P7 1- 55-gallon Hazardous Waste Drum at Lab					
P8 150-55 gallon oil/grease drums at Systech					
P9 30-55 gallon doil/grease drums located throughout plant					
P10 9-110 gallon transformers on top of Main and Bypass ESP					
P11 4- 250 gallon Oil Reservoir at Finish Mills					
P12 1-750-gallon Oil Reservoir at Raw Mill					

Storage Tanks (Tank ID)	Overfill/Spill Control Structures/ Equipment in Good Order	Evidence of Leakage, Corrosion or Spills	Comments	Assigned To	Due Date
P13 1-80,000 gallon #6 Fuel Oil tank at Systech (empty)					
P14 1-7500 gallon Grinding Aid tank at NE corner of finish mill building					
P15 1-10,000 gallon Calcium Chloride tank at homo silos					
P16 1-6000 gallon Propane tank					
P17 1-1000 gallon Propane tank					
P18- 1-480 gallon diesel tank on kiln emergency generator					
Q1 1-12000 gallon Diesel tank in Quarry Containment B					
Q2 1-470 gallon Oily Water tank in Oil/water separator in Quarry					
Q3 8-55 gallon drums in Quarry Shop					
Q4 1-1000 gallon Used Oil tank on containment C at Quarry Shop					
Q5 1-250 gallon Oil tank in Quarry shop (empty)					
Q6 2-275 gallon Transformer in new Quarry					

Storage Tanks (Tank ID)	Overfill/Spill Control Structures/ Equipment in Good Order	Evidence of Leakage, Corrosion or Spills	Comments	Assigned To	Due Date
Q7 1-275 gallon Transformer at Old Quarry Pumps					

Appendix D

Spill Incident Report Form

SPILL INCIDENT REPORT FORM

Name of Facility: CEMEX Southeast LLC – Demopolis Plant

Street Address: 1617 Arcola Road

City: Demopolis State: AL Zip: 36732 Phone: (334) 289-4400

Name/Title of Person Making Report:

Phone: FAX:

Material Released:

(Attach MSDS)

Form and Quantity of Material Released:

Material's Reportable Quantity (if known)

Describe Incident Including how discovered, cause and response taken, (continue on back if necessary):

Date and time release discovered:

Date and time (approx.) release occurred:

Name of person who discovered release:

Was there a fire hazard associated with release?

If yes, Was local fire department notified?

Did spilled material travel offsite or enter a water source?

(If spill entered water, identify the water source)

Were outside responders notified (either public or private)/list:

List governmental agencies contacted (federal, local, state) and person making contact

Agency/Officer Name	Date/Time Contacted	By Who	Case #

How was spilled material disposed?_____

Was any site remediation necessary?_____

What action steps are taken (or planned) to prevent any recurrence of similar incident:

Action	Completion/Target Date

Appendix E

List of Spills and Leaks

List of Spills and Leaks
CEMEX Southeast LLC – Demopolis Plant

Record of Spills					Completed by:_____ Date:_____	
Instructions: Record all *SPILLS* and *SPILL EVENTS* (as defined in 40 CFR 112.2) of oil that have occurred at the facility since the effective date of this SPCC Plan						
		Description			Response Procedures	
Date	Location	Type of Material	Quantity (units)	Source/Reason	Amount of Material Recovered (units)	Preventive Measures Taken (include date measures taken)

August 4, 2016

Jasmine Martin
Mining and Natural Resources Section
Water Division
Alabama Department of Environmental Mgmt.
P O Box 301463
Montgomery, AL 36130-1463

RE: NPDES Permit Application, Renewal
Demopolis Quarry, NPDES Permit No AL0027341
CEMEX Southeast, LLC.
Marengo County

Dear Ms. Martin:

As requested please find enclosed an EPA Form 2C to be included as part of the renewal application for an individual permit for the above limestone quarry in Marengo County.

Outfall 002 is a small sump for the small area around the north end of the coal unloading conveyor. Since it the area is next to the river it would not naturally drain back to the old quarry. There has never been a discharge from Outfall 002 that I remember. The sump may catch a little water in the winter but has never been close to the discharge pipe. The coal unloading belt has not been used since 2008 but it could be reactivated in the future.

Also enclosed is a picture of outfall 002 taken on Monday, August 1st. We had 2-3" of rain on Saturday but the ground is just damp in the sump.

If you have any questions or comments on this application, please contact me by email at mike.gandy@cemexusa.com or by phone at 334-287-3537.

Sincerely,

Mike Gandy
Environmental Manager
?CQcover842016

RECEIVED
AUG - 4 2016
STORM WATER MANAGEMENT BRANCH

United States Operations
P.O. Box 839, 1617 Arcola Road, Demopolis, Alabama 36732, USA. Phone: (334) 289-4400, Fax: (334) 289-1818

Please print or type in the unshaded areas only

EPA I.D. NUMBER (*copy from Item 1 of Form 1*)
AL0027341

Form Approved.
OMB No. 2040-0086.
Approval expires 3-31-98.

FORM 2C NPDES

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER
EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATIONS
Consolidated Permits Program

I. OUTFALL LOCATION

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

A. OUTFALL NUMBER (*list*)	B. LATITUDE			C. LONGITUDE			D. RECEIVING WATER (*name*)
	1. DEG.	2. MIN	3. SEC	1. DEG.	2. MIN.	3. SEC	
001-1	32	30	58	-87	48	30	Unnamed trib. to French Creek
002-1	32	31	10	-87	48	46	Black Warrior River

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (*e.g., for certain mining activities*), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.

1. OUTFALL NO. (*list*)	2. OPERATION(S) CONTRIBUTING FLOW		3. TREATMENT		
	a. OPERATION (*list*)	b. AVERAGE FLOW (*include units*)	a. DESCRIPTION	b. LIST CODES FROM TABLE 2C-1	
001-1	Storm water from limestone quarry,		Sedimentation ponds, oil water separator	4-A	1-U
	cement plant operation, equipment				
	wash facility, truck wash				
002-1	Storm water from coal unloading		Sedimentation pond	4-A	1-U

OFFICIAL USE ONLY (*effluent guidelines sub-categories*)

CONTINUED FROM THE FRONT

C. Except for storm runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

☐ YES (*complete the following table*) ☑ NO (*go to Section III*)

1. OUTFALL NUMBER (*list*)	2. OPERATION(s) CONTRIBUTING FLOW (*list*)	3. FREQUENCY a. DAYS PER WEEK (*specify average*)	3. FREQUENCY b. MONTHS PER YEAR (*specify average*)	4. FLOW a. FLOW RATE (*in mgd*) 1. LONG TERM AVERAGE	4. FLOW a. FLOW RATE (*in mgd*) 2. MAXIMUM DAILY	4. FLOW B. TOTAL VOLUME (*specify with units*) 1. LONG TERM AVERAGE	4. FLOW B. TOTAL VOLUME (*specify with units*) 2. MAXIMUM DAILY	4. FLOW C. DURATION (*in days*)

III. PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

☑ YES (*complete Item III-B*) ☐ NO (*go to Section IV*)

B. Are the limitations in the applicable effluent guideline expressed in terms of production (*or other measure of operation*)?

☐ YES (*complete Item III-C*) ☑ NO (*go to Section IV*)

C. If you answered "yes" to Item III-B, list the quantity which represents an actual measurement of your level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

1. AVERAGE DAILY PRODUCTION a. QUANTITY PER DAY	1. AVERAGE DAILY PRODUCTION b. UNITS OF MEASURE	1. AVERAGE DAILY PRODUCTION c. OPERATION, PRODUCT, MATERIAL, ETC. (*specify*)	2. AFFECTED OUTFALLS (*list outfall numbers*)

IV. IMPROVEMENTS

A. Are you now required by any Federal, State or local authority to meet any implementation schedule for the construction, upgrading or operations of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

☐ YES (*complete the following table*) ☑ NO (*go to Item IV-B*)

1. IDENTIFICATION OF CONDITION, AGREEMENT, ETC.	2. AFFECTED OUTFALLS a. NO	2. AFFECTED OUTFALLS b. SOURCE OF DISCHARGE	3. BRIEF DESCRIPTION OF PROJECT	4. FINAL COMPLIANCE DATE a. REQUIRED	4. FINAL COMPLIANCE DATE b. PROJECTED

B. OPTIONAL. You may attach additional sheets describing any additional water pollution control programs (*or other environmental projects which may affect your discharges*) you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction.

☐ MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED

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CONTINUED FROM PAGE 2

V. INTAKE AND EFFLUENT CHARACTERISTICS

A, B, & C. See instructions before proceeding – Complete one set of tables for each outfall – Annotate the outfall number in the space provided.
NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered V-1 through V-9.

D. Use the space below to list any of the pollutants listed in Table 2c-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE

VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

Is any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

☐ YES (*list all such pollutants below*) ☑ NO (*go to Item VI-B*)

CONTINUED FROM THE FRONT

VII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☐ YES (*identify the test(s) and describe their purposes below*) ☑ NO (*go to Section VIII*)

VIII. CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?

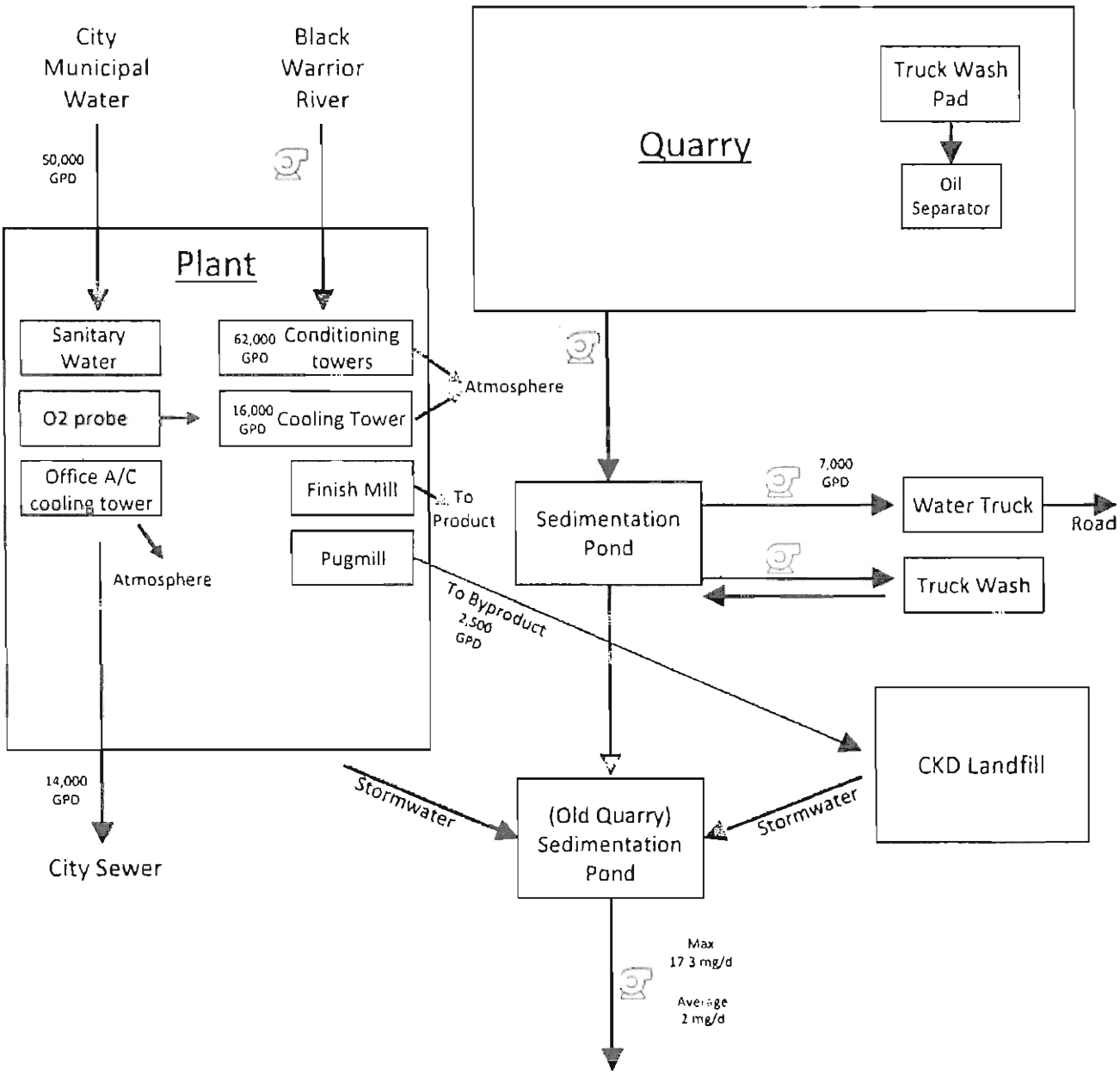
☑ YES (*list the name, address, and telephone number of, and pollutants analyzed by each such laboratory or firm below*) ☐ NO (*go to Section IX*)

A. NAME	B. ADDRESS	C. TELEPHONE (*area code & no.*)	D. POLLUTANTS ANALYZED (*list*)
TTL, Inc.	3516 Greensboro Ave. Tuscaloosa AL 35401	205-345-0816	pH TSS O&G Fe S Mn COD TDS

IX. 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 properly 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.

A. NAME & OFFICIAL TITLE (*type or print*)	B. PHONE NO. (*area code & no.*)
Alejandro Perez	(334) 289-4400
C. SIGNATURE	D. DATE SIGNED
	8/4/2016



2C – II A – Water Flow

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY You may report some or all of this information on separate sheets (*use the same format*) instead of completing these pages. SEE INSTRUCTIONS.

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V INTAKE AND EFFLUENT CHARACTERISTICS (*continued from page 3 of Form 2-C*)

OUTFALL NO. 001-1

PART A –You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (*if available*) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (*if available*) (2) MASS	c. LONG TERM AVRG. VALUE (*if available*) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (*if available*) (2) MASS	d. NO. OF ANALYSES	3. UNITS (*specify if blank*) a. CONCENTRATION	3. UNITS b. MASS	4. INTAKE (*optional*) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	4. INTAKE a. LONG TERM AVERAGE VALUE (2) MASS	4. INTAKE b. NO. OF ANALYSES
a. Biochemical Oxygen Demand (*BOD*)	2.5	360.9	N/A	N/A	N/A	N/A	1 grab	mg/l	lbs	N/A	N/A	N/A
b. Chemical Oxygen Demand (*COD*)	346	49,953	N/A	N/A	38.05	5,493	25 grab	mg/l	lbs	N/A	N/A	N/A
c. Total Organic Carbon (*TOC*)	8	1,155	N/A	N/A	N/A	N/A	1 grab	mg/l	lbs	N/A	N/A	N/A
d. Total Suspended Solids (*TSS*)	44	6,352	N/A	N/A	13.12	1,894	25 grab	mg/l	lbs	N/A	N/A	N/A
e. Ammonia (*as N*)	<0.05	<7.22	N/A	N/A	N/A	N/A	1 grab	mg/l	lbs	N/A	N/A	N/A
f. Flow	VALUE 17.3		VALUE N/A		VALUE			mgd	N/A	VALUE N/A		N/A
g. Temperature (*winter*)	VALUE 21.3		VALUE N/A		VALUE 18.8		5 grab	°C		VALUE N/A		N/A
h. Temperature (*summer*)	VALUE 29.4		VALUE N/A		VALUE 29.3		2 grab	°C		VALUE N/A		N/A
i. pH	MINIMUM 6.79	MAXIMUM 8.91	MINIMUM N/A	MAXIMUM N/A			25 grab	STANDARD UNITS				

PART B – Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (*if available*)	2. MARK "X" a. BELIEVED PRESENT	2. MARK "X" b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (*if available*) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (*if available*) (2) MASS	c. LONG TERM AVRG. VALUE (*if available*) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (*if available*) (2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (*optional*) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE b. NO. OF ANALYSES
a. Bromide (24959-67-9)		X												
b. Chlorine, Total Residual		X												
c. Color		X												
d. Fecal Coliform		X												
e. Fluoride (16984-48-8)		X												
f. Nitrate-Nitrite (*as N*)		X												

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
g. Nitrogen, Total Organic (as N)		X												
h. Oil and Grease	X		4.1	591.9	N/A	N/A	<1.45	<209.1	25	mg/l	lbs	N/A	N/A	N/A
i. Phosphorus (as P), Total (7723-14-0)		X												
j. Radioactivity														
(1) Alpha, Total		X												
(2) Beta, Total		X												
(3) Radium, Total		X												
(4) Radium 226, Total		X												
k. Sulfate (as SO_4) (14808-79-8)	X		492	71,033	N/A	N/A	209	30,186	25	mg/l	lbs	N/A	N/A	N/A
l. Sulfide (as S)		X												
m. Sulfite (as SO_3) (14265-45-3)		X												
n. Surfactants		X												
o. Aluminum, Total (7429-90-5)		X												
p. Barium, Total (7440-39-3)		X												
q. Boron, Total (7440-42-8)		X												
r. Cobalt, Total (7440-48-4)		X												
s. Iron, Total (7439-89-6)	X		1.13	163	N/A	N/A	0.308	44.5	25	mg/l	lbs	N/A	N/A	N/A
t. Magnesium, Total (7439-95-4)		X												
u. Molybdenum, Total (7439-98-7)		X												
v. Manganese, Total (7439-96-5)	X		0.816	118	N/A	N/A	0.121	17.5	25	mg/l	lbs	N/A	N/A	N/A
w. Tin, Total (7440-31-5)		X												
x. Titanium, Total (7440-32-6)		X												

EPA I.D. NUMBER (*copy from Item 1 of Form 1*)	OUTFALL NUMBER
AL0027341	001-1

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (*secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions*), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (*all 7 pages*) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)			X												
2M. Arsenic, Total (7440-38-2)			X												
3M. Beryllium, Total (7440-41-7)			X												
4M. Cadmium, Total (7440-43-9)			X												
5M. Chromium, Total (7440-47-3)			X												
6M. Copper, Total (7440-50-8)			X												
7M. Lead, Total (7439-92-1)			X												
8M. Mercury, Total (7439-97-6)			X												
9M. Nickel, Total (7440-02-0)			X												
10M. Selenium, Total (7782-49-2)			X												
11M. Silver, Total (7440-22-4)			X												
12M. Thallium, Total (7440-28-0)			X												
13M. Zinc, Total (7440-66-6)			X												
14M. Cyanide, Total (57-12-5)			X												
15M. Phenols, Total			X												
DIOXIN															
2,3,7,8-Tetrachlorodibenzo-P-Dioxin (1764-01-6)			X	DESCRIBE RESULTS											

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS															
1V. Accrolein (107-02-8)			X												
2V. Acrylonitrile (107-13-1)			X												
3V. Benzene (71-43-2)			X												
4V. Bis (*Chloromethyl*) Ether (542-88-1)			X												
5V. Bromoform (75-25-2)			X												
6V. Carbon Tetrachloride (56-23-5)			X												
7V. Chlorobenzene (108-90-7)			X												
8V. Chlorodibromomethane (124-48-1)			X												
9V. Chloroethane (75-00-3)			X												
10V. 2-Chloroethylvinyl Ether (110-75-8)			X												
11V. Chloroform (67-66-3)			X												
12V. Dichlorobromomethane (75-27-4)			X												
13V. Dichlorodifluoromethane (75-71-8)			X												
14V. 1,1-Dichloroethane (75-34-3)			X												
15V. 1,2-Dichloroethane (107-06-2)			X												
16V. 1,1-Dichloroethylene (75-35-4)			X												
17V. 1,2-Dichloropropane (78-87-5)			X												
18V. 1,3-Dichloropropylene (542-75-6)			X												
19V. Ethylbenzene (100-41-4)			X												
20V. Methyl Bromide (74-83-9)			X												
21V. Methyl Chloride (74-87-3)			X												

CONTINUED FROM PAGE V-4

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS (*continued*)															
22V. Methylene Chloride (75-09-2)			X												
23V. 1,1,2,2-Tetrachloroethane (79-34-5)			X												
24V. Tetrachloroethylene (127-18-4)			X												
25V. Toluene (108-88-3)			X												
26V. 1,2-Trans-Dichloroethylene (156-60-5)			X												
27V. 1,1,1-Trichloroethane (71-55-6)			X												
28V. 1,1,2-Trichloroethane (79-00-5)			X												
29V Trichloroethylene (79-01-6)			X												
30V. Trichlorofluoromethane (75-69-4)			X												
31V. Vinyl Chloride (75-01-4)			X												
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)			X												
2A. 2,4-Dichlorophenol (120-83-2)			X												
3A. 2,4-Dimethylphenol (105-67-9)			X												
4A. 4,6-Dinitro-O-Cresol (534-52-1)			X												
5A. 2,4-Dinitrophenol (51-28-5)			X												
6A. 2-Nitrophenol (88-75-5)			X												
7A. 4-Nitrophenol (100-02-7)			X												
8A. P-Chloro-M-Cresol (59-50-7)			X												
9A. Pentachlorophenol (87-86-5)			X												
10A. Phenol (108-95-2)			X												
11A. 2,4,6-Trichlorophenol (88-05-2)			X												

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)			X												
2B. Acenaphtylene (208-96-8)			X												
3B. Anthracene (120-12-7)			X												
4B. Benzidine (92-87-5)			X												
5B. Benzo (*a*) Anthracene (56-55-3)			X												
6B. Benzo (*a*) Pyrene (50-32-8)			X												
7B. 3,4-Benzo-fluoranthene (205-99-2)			X												
8B. Benzo (*ghi*) Perylene (191-24-2)			X												
9B. Benzo (*k*) Fluoranthene (207-08-9)			X												
10B. Bis (*2-Chloro-ethoxy*) Methane (111-91-1)			X												
11B. Bis (*2-Chloro-ethyl*) Ether (111-44-4)			X												
12B. Bis (*2-Chloroisopropyl*) Ether (102-80-1)			X												
13B. Bis (*2-Ethyl-hexyl*) Phthalate (117-81-7)			X												
14B. 4-Bromophenyl Phenyl Ether (101-55-3)			X												
15B. Butyl Benzyl Phthalate (85-68-7)			X												
16B. 2-Chloro-naphthalene (91-58-7)			X												
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)			X												
18B. Chrysene (218-01-9)			X												
19B. Dibenzo (*a,h*) Anthracene (53-70-3)			X												
20B. 1,2-Dichloro-benzene (95-50-1)			X												
21B. 1,3-Di-chloro-benzene (541-73-1)			X												

CONTINUED FROM PAGE V-6

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	b. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (*continued*)															
22B. 1,4-Dichlorobenzene (106-46-7)			X												
23B. 3,3-Dichlorobenzidine (91-94-1)			X												
24B. Diethyl Phthalate (84-66-2)			X												
25B. Dimethyl Phthalate (131-11-3)			X												
26B. Di-N-Butyl Phthalate (84-74-2)			X												
27B. 2,4-Dinitrotoluene (121-14-2)			X												
28B. 2,6-Dinitrotoluene (606-20-2)			X												
29B. Di-N-Octyl Phthalate (117-84-0)			X												
30B. 1,2-Diphenylhydrazine (as *Azobenzene*) (122-66-7)			X												
31B. Fluoranthene (206-44-0)			X												
32B. Fluorene (86-73-7)			X												
33B. Hexachlorobenzene (118-74-1)			X												
34B. Hexachlorobutadiene (87-68-3)			X												
35B. Hexachlorocyclopentadiene (77-47-4)			X												
36B Hexachloroethane (67-72-1)			X												
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)			X												
38B. Isophorone (78-59-1)			X												
39B. Naphthalene (91-20-3)			X												
40B. Nitrobenzene (98-95-3)			X												
41B. N-Nitrosodimethylamine (62-75-9)			X												
42B. N-Nitrosodi-N-Propylamine (621-64-7)			X												

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (*continued*)															
43B. N-Nitrosodiphenylamine (86-30-6)			X												
44B. Phenanthrene (85-01-8)			X												
45B. Pyrene (129-00-0)			X												
46B. 1,2,4-Trichlorobenzene (120-82-1)			X												
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)			X												
2P. α-BHC (319-84-6)			X												
3P. β-BHC (319-85-7)			X												
4P. γ-BHC (58-89-9)			X												
5P. δ-BHC (319-86-8)			X												
6P. Chlordane (57-74-9)			X												
7P. 4,4'-DDT (50-29-3)			X												
8P. 4,4'-DDE (72-55-9)			X												
9P. 4,4'-DDD (72-54-8)			X												
10P. Dieldrin (60-57-1)			X												
11P. α-Enosulfan (115-29-7)			X												
12P. β-Endosulfan (115-29-7)			X												
13P. Endosulfan Sulfate (1031-07-8)			X												
14P. Endrin (72-20-8)			X												
15P. Endrin Aldehyde (7421-93-4)			X												
16P. Heptachlor (76-44-8)			X												

EPA I.D. NUMBER (*copy from Item 1 of Form 1*)	OUTFALL NUMBER
AL0027341	001-1

CONTINUED FROM PAGE V-8

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – PESTICIDES (*continued*)															
17P. Heptachlor Epoxide (1024-57-3)			X												
18P. PCB-1242 (53469-21-9)			X												
19P. PCB-1254 (11097-69-1)			X												
20P. PCB-1221 (11104-28-2)			X												
21P. PCB-1232 (11141-16-5)			X												
22P. PCB-1248 (12672-29-6)			X												
23P. PCB-1260 (11096-82-5)			X												
24P. PCB-1016 (12674-11-2)			X												
25P. Toxaphene (8001-35-2)			X												

Outfall 002-1

Barge unloading sump area. No discharge

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (*use the same format*) instead of completing these pages.
SEE INSTRUCTIONS.

EPA I.D. NUMBER (*copy from Item 1 of Form 1*): AL0027341

V. INTAKE AND EFFLUENT CHARACTERISTICS *(continued from page 3 of Form 2-C)*

OUTFALL NO: 002-1

PART A –You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	2. EFFLUENT a. MAXIMUM DAILY VALUE (2) MASS	2. EFFLUENT b. MAXIMUM 30 DAY VALUE (*if available*) (1) CONCENTRATION	2. EFFLUENT b. MAXIMUM 30 DAY VALUE (*if available*) (2) MASS	2. EFFLUENT c. LONG TERM AVRG. VALUE (*if available*) (1) CONCENTRATION	2. EFFLUENT c. LONG TERM AVRG. VALUE (*if available*) (2) MASS	2. EFFLUENT d. NO. OF ANALYSES	3. UNITS (*specify if blank*) a. CONCENTRATION	3. UNITS (*specify if blank*) b. MASS	4. INTAKE (*optional*) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	4. INTAKE (*optional*) a. LONG TERM AVERAGE VALUE (2) MASS	4. INTAKE (*optional*) b. NO. OF ANALYSES
a. Biochemical Oxygen Demand (*BOD*)	NO	DIS-	CHARGE	IN	LAST FIVE	YEARS				N/A	N/A	N/A
b. Chemical Oxygen Demand (*COD*)	NO	DIS-	CHARGE	IN	LAST FIVE	YEARS				N/A	N/A	N/A
c. Total Organic Carbon (*TOC*)	NO	DIS-	CHARGE	IN	LAST FIVE	YEARS				N/A	N/A	N/A
d. Total Suspended Solids (*TSS*)	NO	DIS-	CHARGE	IN	LAST FIVE	YEARS				N/A	N/A	N/A
e. Ammonia (*as N*)	NO	DIS-	CHARGE	IN	LAST FIVE	YEARS				N/A	N/A	N/A
f. Flow	VALUE N/A		VALUE N/A		VALUE N/A		N/A	N/A	N/A	VALUE N/A		N/A
g. Temperature (*winter*)	VALUE N/A		VALUE N/A		VALUE N/A		N/A	°C		VALUE N/A		N/A
h. Temperature (*summer*)	VALUE N/A		VALUE N/A		VALUE N/A		N/A	°C		VALUE N/A		N/A
i. pH	MINIMUM N/A	MAXIMUM N/A	MINIMUM N/A	MAXIMUM N/A			N/A	STANDARD UNITS				

PART B – Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO (*if available*)	2. MARK "X" a. BELIEVED PRESENT	2. MARK "X" b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	3. EFFLUENT a. MAXIMUM DAILY VALUE (2) MASS	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (*if available*) (1) CONCENTRATION	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (*if available*) (2) MASS	3. EFFLUENT c. LONG TERM AVRG. VALUE (*if available*) (1) CONCENTRATION	3. EFFLUENT c. LONG TERM AVRG. VALUE (*if available*) (2) MASS	3. EFFLUENT d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (*optional*) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (*optional*) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (*optional*) b. NO. OF ANALYSES
a. Bromide (24959-67-9)		X												
b. Chlorine, Total Residual		X												
c. Color		X												
d. Fecal Coliform		X												
e. Fluoride (16984-48-8)		X												
f. Nitrate-Nitrite (*as N*)		X												

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (*if available*)	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
g. Nitrogen, Total Organic (as N)		X												
h. Oil and Grease		X												
i. Phosphorus (as P), Total (7723-14-0)		X												
j. Radioactivity														
(1) Alpha, Total		X												
(2) Beta, Total		X												
(3) Radium, Total		X												
(4) Radium 226, Total		X												
k. Sulfate (as SO_4) (14808-79-8)		X												
l. Sulfide (as S)		X												
m. Sulfite (as SO_3) (14265-45-3)		X												
n. Surfactants		X												
o. Aluminum, Total (7429-90-5)		X												
p. Barium, Total (7440-39-3)		X												
q. Boron, Total (7440-42-8)		X												
r. Cobalt, Total (7440-48-4)		X												
s. Iron, Total (7439-89-6)		X												
t. Magnesium, Total (7439-95-4)		X												
u. Molybdenum, Total (7439-98-7)		X												
v. Manganese, Total (7439-96-5)		X												
w. Tin, Total (7440-31-5)		X												
x. Titanium, Total (7440-32-6)		X												

EPA I.D. NUMBER (*copy from Item 1 of Form 1*)	OUTFALL NUMBER
AL0027341	002-1

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (*secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions*), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (*all 7 pages*) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)			X												
2M. Arsenic, Total (7440-38-2)			X												
3M. Beryllium, Total (7440-41-7)			X												
4M. Cadmium, Total (7440-43-9)			X												
5M. Chromium, Total (7440-47-3)			X												
6M. Copper, Total (7440-50-8)			X												
7M. Lead, Total (7439-92-1)			X												
8M. Mercury, Total (7439-97-6)			X												
9M. Nickel, Total (7440-02-0)			X												
10M. Selenium, Total (7782-49-2)			X												
11M. Silver, Total (7440-22-4)			X												
12M. Thallium, Total (7440-28-0)			X												
13M. Zinc, Total (7440-66-6)			X												
14M. Cyanide, Total (57-12-5)			X												
15M. Phenols, Total			X												
DIOXIN															
2,3,7,8-Tetra-chlorodibenzo-P-Dioxin (1764-01-6)			X	DESCRIBE RESULTS											

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)			X												
2V. Acrylonitrile (107-13-1)			X												
3V. Benzene (71-43-2)			X												
4V. Bis (*Chloromethyl*) Ether (542-88-1)			X												
5V. Bromoform (75-25-2)			X												
6V. Carbon Tetrachloride (56-23-5)			X												
7V. Chlorobenzene (108-90-7)			X												
8V. Chlorodibromomethane (124-48-1)			X												
9V. Chloroethane (75-00-3)			X												
10V. 2-Chloroethylvinyl Ether (110-75-8)			X												
11V. Chloroform (67-66-3)			X												
12V. Dichlorobromomethane (75-27-4)			X												
13V. Dichlorodifluoromethane (75-71-8)			X												
14V. 1,1-Dichloroethane (75-34-3)			X												
15V. 1,2-Dichloroethane (107-06-2)			X												
16V. 1,1-Dichloroethylene (75-35-4)			X												
17V. 1,2-Dichloropropane (78-87-5)			X												
18V. 1,3-Dichloropropylene (542-75-6)			X												
19V. Ethylbenzene (100-41-4)			X												
20V. Methyl Bromide (74-83-9)			X												
21V. Methyl Chloride (74-87-3)			X												

CONTINUED FROM PAGE V-4

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS (*continued*)															
22V. Methylene Chloride (75-09-2)			X												
23V. 1,1,2,2-Tetrachloroethane (79-34-5)			X												
24V. Tetrachloroethylene (127-18-4)			X												
25V. Toluene (108-88-3)			X												
26V. 1,2-Trans-Dichloroethylene (156-60-5)			X												
27V. 1,1,1-Trichloroethane (71-55-6)			X												
28V. 1,1,2-Trichloroethane (79-00-5)			X												
29V Trichloroethylene (79-01-6)			X												
30V. Trichlorofluoromethane (75-69-4)			X												
31V. Vinyl Chloride (75-01-4)			X												
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)			X												
2A. 2,4-Dichlorophenol (120-83-2)			X												
3A. 2,4-Dimethylphenol (105-67-9)			X												
4A. 4,6-Dinitro-O-Cresol (534-52-1)			X												
5A. 2,4-Dinitrophenol (51-28-5)			X												
6A. 2-Nitrophenol (88-75-5)			X												
7A. 4-Nitrophenol (100-02-7)			X												
8A. P-Chloro-M-Cresol (59-50-7)			X												
9A. Pentachlorophenol (87-86-5)			X												
10A. Phenol (108-95-2)			X												
11A. 2,4,6-Trichlorophenol (88-05-2)			X												

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)			X												
2B. Acenaphtylene (208-96-8)			X												
3B. Anthracene (120-12-7)			X												
4B. Benzidine (92-87-5)			X												
5B. Benzo (*a*) Anthracene (56-55-3)			X												
6B. Benzo (*a*) Pyrene (50-32-8)			X												
7B. 3,4-Benzo-fluoranthene (205-99-2)			X												
8B. Benzo (*ghi*) Perylene (191-24-2)			X												
9B. Benzo (*k*) Fluoranthene (207-08-9)			X												
10B. Bis (*2-Chloro-ethoxy*) Methane (111-91-1)			X												
11B. Bis (*2-Chloro-ethyl*) Ether (111-44-4)			X												
12B. Bis (*2-Chloroisopropyl*) Ether (102-80-1)			X												
13B. Bis (*2-Ethyl-hexyl*) Phthalate (117-81-7)			X												
14B. 4-Bromophenyl Phenyl Ether (101-55-3)			X												
15B. Butyl Benzyl Phthalate (85-68-7)			X												
16B. 2-Chloro-naphthalene (91-58-7)			X												
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)			X												
18B. Chrysene (218-01-9)			X												
19B. Dibenzo (*a,h*) Anthracene (53-70-3)			X												
20B. 1,2-Dichloro-benzene (95-50-1)			X												
21B. 1,3-Di-chloro-benzene (541-73-1)			X												

CONTINUE ON PAGE V-7

CONTINUED FROM PAGE V-6

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (*continued*)															
22B. 1,4-Dichlorobenzene (106-46-7)			X												
23B. 3,3-Dichlorobenzidine (91-94-1)			X												
24B. Diethyl Phthalate (84-66-2)			X												
25B. Dimethyl Phthalate (131-11-3)			X												
26B. Di-N-Butyl Phthalate (84-74-2)			X												
27B. 2,4-Dinitrotoluene (121-14-2)			X												
28B. 2,6-Dinitrotoluene (606-20-2)			X												
29B. Di-N-Octyl Phthalate (117-84-0)			X												
30B. 1,2-Diphenylhydrazine (*as Azobenzene*) (122-66-7)			X												
31B. Fluoranthene (206-44-0)			X												
32B. Fluorene (86-73-7)			X												
33B. Hexachlorobenzene (118-74-1)			X												
34B. Hexachlorobutadiene (87-68-3)			X												
35B. Hexachlorocyclopentadiene (77-47-4)			X												
36B Hexachloroethane (67-72-1)			X												
37B. Indeno (*1,2,3-cd*) Pyrene (193-39-5)			X												
38B. Isophorone (78-59-1)			X												
39B. Naphthalene (91-20-3)			X												
40B. Nitrobenzene (98-95-3)			X												
41B. N-Nitrosodimethylamine (62-75-9)			X												
42B. N-Nitrosodi-N-Propylamine (621-64-7)			X												

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (*continued*)															
43B. N-Nitrosodiphenylamine (86-30-6)			X												
44B. Phenanthrene (85-01-8)			X												
45B. Pyrene (129-00-0)			X												
46B. 1,2,4-Trichlorobenzene (120-82-1)			X												
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)			X												
2P. α-BHC (319-84-6)			X												
3P. β-BHC (319-85-7)			X												
4P. γ-BHC (58-89-9)			X												
5P. δ-BHC (319-86-8)			X												
6P. Chlordane (57-74-9)			X												
7P. 4,4'-DDT (50-29-3)			X												
8P. 4,4'-DDE (72-55-9)			X												
9P. 4,4'-DDD (72-54-8)			X												
10P. Dieldrin (60-57-1)			X												
11P. α-Endosulfan (115-29-7)			X												
12P. β-Endosulfan (115-29-7)			X												
13P. Endosulfan Sulfate (1031-07-8)			X												
14P. Endrin (72-20-8)			X												
15P. Endrin Aldehyde (7421-93-4)			X												
16P. Heptachlor (76-44-8)			X												

EPA I.D. NUMBER (*copy from Item 1 of Form 1*)	OUTFALL NUMBER
AL0027341	002-1

CONTINUED FROM PAGE V-8

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – PESTICIDES (*continued*)															
17P. Heptachlor Epoxide (1024-57-3)			X												
18P. PCB-1242 (53469-21-9)			X												
19P. PCB-1254 (11097-69-1)			X												
20P. PCB-1221 (11104-28-2)			X												
21P. PCB-1232 (11141-16-5)			X												
22P. PCB-1248 (12672-29-6)			X												
23P. PCB-1260 (11096-82-5)			X												
24P. PCB-1016 (12674-11-2)			X												
25P. Toxaphene (8001-35-2)			X												

March 29, 2016

Ange Boatwright
Mining and Natural Resources Section
Water Division
Alabama Department of Environmental Mgmt.
P O Box 301463
Montgomery, AL 36130-1463

RE: NPDES Permit Application, Renewal
Demopolis Quarry, NPDES Permit No AL0027341
CEMEX Southeast, LLC.
Marengo County

Dear Ms. Boatwright:

Please find enclosed a renewal application for an individual permit for the above limestone quarry in Marengo County. This submittal includes:

1. Application processing fee of $5280 for mining reissuance
2. ADEM Form 315 NPDES application form
3. Pollution Abatement/Prevention Plan with PE Certification
4. PAP Checklist
5. Appendix A & B Checklist
6. SPCC Plan with PE certification for onsite fuel and chemical storage
7. USGS Topographic 7.5 minute 1" – 2000' scale map
8. 1" – 500' or equivalent facility detail map
9. Letter designating the Demopolis Plant Manager as the duly authorized representative

If you have any questions or comments on this application, please contact me by email at mike.gandy@cemexusa.com or by phone at 334-287-3537.

Sincerely,

Mike Gandy
Environmental Manager
DQcover3292016

United States Operations
P.O. Box 839, 1617 Arcola Road, Demopolis, Alabama 36732. USA. Phone: (334) 289-4400, Fax: (334) 289-1818

CERTIFICATION STATEMENT:

I hereby certify that this Plan was developed under my supervision and is accurate and correct to the best of my knowledge and belief. I further certify that the Plan meets the requirements of ADEM Administration Code Division 335-6, including Chapter 335-6-9 and Appendices A & B.

Douglas J. Varnon, PE
Alabama Registration No. 27030

BLACK WARRIOR RIVER

DISCHARGE 002E

COAL BELT CONVEYOR

FRENCH CREEK

UNNAMED TRIBUTARY FRENCH CREEK

DEVILS RUN CREEK

STORAGE HALL

PLANT

ABANDONED QUARRY SEDIMENTATION BASIN

PUMPING STATION

DISCHARGE 001E

INTERMEDIATE SEDIMENTATION BASINS

LAFARGE CORP.

PUMPING STATION

HAUL ROAD

QUARRY SEDIMENTATION BASIN

QUARRY

OFF SITE DRAINAGE

BASIN CLEAN OUT STORAGE AREA

CKD LANDFILL

U.S. HIGHWAY 80

HAUL ROAD

FUTURE QUARRY EXPANSION AREAS

TOPSOIL STORAGE AREA

LEGEND

- DRAINAGE BASIN BOUNDARY
- GENERAL DIRECTION OF DRAINAGE
- PROPERTY LINE

Plant operates 24hrs/day, 7days/week.

NORTH

SCALE: 1"=500'

POLLUTION ABATEMENT PLAN
CEMEX SOUTHEAST, LLC.
DEMOPOLIS, ALABAMA
MARCH 2016

MARENGO COUNTY
TOWNSHIP 18 NORTH, RANGE 3 EAST
SECTIONS 19, 20, 21, 28, 29, & 30