

LANCE R. LEFLEUR
DIRECTOR

ADEM

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

October 31, 2014

Mr. Aaron Bier
GEO Specialty Chemicals, Inc.
5365 County Road 57
Demopolis, Alabama 36732

RE: Permit Renewal
GEO Specialty Chemicals, Inc. Inert Landfill
Permit No. 33-02

Dear Mr. Bier:

Enclosed is the Solid Waste Facility Disposal Permit for the GEO Specialty Chemicals, Inc. Inert Landfill. The permit is effective November 13, 2014, and will expire on November 12, 2019.

If you should have any questions, please contact Shane Lovett of the Solid Waste Engineering Section at (334) 270-5628.

Sincerely,



S. Scott Story, Chief
Solid Waste Engineering Section
Land Division

SSS/sl

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



SOLID WASTE DISPOSAL FACILITY PERMIT

PERMITTEE:

Geo Specialty Chemicals, Inc.

FACILITY NAME:

Geo Specialty Chemicals, Inc. Inert Landfill

FACILITY LOCATION:

**Section 22, Township 19 North, Range 4 East in Hale County, Alabama.
The total permitted area is approximately 9.5 acres with 6.7 acres approved
for disposal.**

PERMIT NUMBER:

33-02

PERMIT TYPE:

Construction/Demolition Landfill

WASTE APPROVED FOR DISPOSAL:

Non-hazardous inert spent silica mud from the production of alum

APPROVED WASTE VOLUME:

Average Yearly Volume of 35,000 cubic yards

APPROVED SERVICE AREA:

Geo Specialty Chemicals, Inc. Plant located in Demopolis, Alabama

In accordance with and subject to the provisions of the Alabama Solid Wastes and Recyclable Materials Management Act, as amended, Code of Alabama 1975, SS 22-27-1 to 22-27-27 ("SWRMMA"), the Alabama Environmental Management Act, as amended, Code of Alabama 1975, SS 22-22A-1 to 22-22A-15, and rules and regulations adopted thereunder, and subject further to the conditions set forth in this permit, the Permittee is hereby authorized to dispose of the above-described solid wastes at the above-described facility location.

ISSUANCE DATE:

October 31, 2014

EFFECTIVE DATE:

November 13, 2014

EXPIRATION DATE:

November 12, 2019

A handwritten signature in black ink, appearing to read "Patty S.S.", is placed over a horizontal line.

Alabama Department of Environmental Management

**ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
SOLID WASTE PERMIT**

Permittee: Geo Specialty Chemicals, Inc.
5365 County Road 57
Demopolis, Alabama 36732

Landfill Name: Geo Specialty Chemicals, Inc. Inert Landfill

Landfill Location: Section 22, Township 19 North, Range 4 East in Hale County, Alabama

Permit Number: 33-02

Landfill Type: Construction and Demolition Landfill

Pursuant to the Alabama Solid Wastes and Recyclable Materials Management Act, as amended, Code of Alabama 1975, SS 22-27-1 to 22-27-27 ("SWRMMA"), et seq., as amended, and attendant regulations promulgated thereunder by the Alabama Department of Environmental Management (ADEM), this permit is issued to Geo Specialty Chemicals, Inc. (hereinafter called the Permittee), to operate a solid waste disposal facility, known as the Geo Specialty Chemicals, Inc. Inert Landfill.

The Permittee must comply with all terms and conditions of this permit. This permit consists of the conditions set forth herein (including those in any attachments), and the applicable regulations contained in Chapters 335-13-1 through 335-13-14 of the ADEM Administrative Code (hereinafter referred to as the "ADEM Admin. Code"). Rules cited are set forth in this document for the purpose of Permittee reference. Any Rule that is cited incorrectly in this document does not constitute grounds for noncompliance on the part of the Permittee. Applicable ADEM Administrative Codes are those that are in effect on the date of issuance of this permit or any revisions approved after permit issuance.

This permit is based on the information submitted to ADEM on May 15, 2014, for permit renewal and is hereby known as the Permit Application (hereby incorporated by reference and hereinafter referred to as the Application). Any inaccuracies found in this information could lead to the termination or modification of this permit and potential enforcement action). The Permittee must inform ADEM of any deviation from or changes in the information in the Application that would affect the Permittee's ability to comply with the applicable ADEM Admin. Code or permit conditions.

This permit is effective as of **November 13, 2014**, and shall remain in effect until **November 12, 2019**, unless suspended or revoked.


Alabama Department of Environmental Management

31-Oct-14
Date Signed

SECTION I. STANDARD CONDITIONS

- A. Effect of Permit. The Permittee is allowed to dispose of nonhazardous solid waste in accordance with the conditions of this permit and ADEM Admin. Code Div. 13. Issuance of this permit does not convey property rights of any sort or any exclusive privilege, nor does it authorize any injury to persons or property, any invasion of other private rights, or any infringement of state or local laws or regulations. Except for actions brought under Code of Alabama 1975, Section 22-27-1, *et seq.*, as amended, compliance with the conditions of this permit shall be deemed to be compliance with applicable requirements in effect as of the date of issuance of this permit and any future revisions.
- B. Permit Actions. This permit may be suspended, revoked or modified for cause. The filing of a request for a permit modification or the notification of planned changes or anticipated noncompliance on the part of the Permittee, and the suspension or revocation does not stay the applicability or enforceability of any permit condition.
- C. 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.
- D. Definitions. For the purpose of this permit, terms used herein shall have the same meaning as those in ADEM Admin. Code Division 13, unless this permit specifically provides otherwise; where terms are not otherwise defined, the meaning associated with such terms shall be as defined by a standard dictionary reference or the generally accepted scientific or industrial meaning of the term.
 - 1. "EPA" for purposes of this permit means the United States Environmental Protection Agency.
 - 2. "Permit Application" for the purposes of this permit, means all permit application forms, design plans, operational plans, closure plans, technical data, reports, specifications, plats, geological and hydrological reports, and other materials which are submitted to the Department in pursuit of a solid waste disposal permit.
- E. Duties and Requirements.
 - 1. Duty to Comply. The Permittee must comply with all conditions of this permit except to the extent and for the duration such noncompliance is authorized by a variance granted by the Department. Any permit noncompliance, other than noncompliance authorized by a variance, constitutes a violation of Code of Alabama 1975, Section 22-27-1 *et seq.*, as amended, and is grounds for enforcement action, permit suspension, revocation, modification, and/or denial of a permit renewal application.
 - 2. Duty to Reapply. If the Permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the Permittee must apply for and obtain a new permit. The renewal application must be submitted to the Department at least 180 days before this permit expires.
 - 3. Permit Expiration. This permit and all conditions therein will remain in effect beyond the permit's expiration date if the Permittee has submitted a timely, complete application as required by Section I.E., and, through no fault of the Permittee, the Department has not made a final decision regarding the renewal application.
 - 4. Need to Halt or Reduce Activity Not A Defense. It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity to maintain compliance with the conditions of this permit.
 - 5. Duty to Mitigate. In the event of noncompliance with this permit, the Permittee shall take all reasonable steps to minimize releases to the environment, and shall carry out such measures as are reasonable to prevent significant adverse impacts on human health or the environment.

6. **Proper Operation and Maintenance.** The Permittee shall at all times properly operate and maintain all facilities and systems of control (and related appurtenances) that are installed or used by the Permittee to achieve compliance with the conditions of this permit.
7. **Duty to Provide Information.** If requested, the Permittee shall furnish to ADEM, within a reasonable time, any information that ADEM may reasonably need to determine whether cause exists for denying, suspending, revoking, or modifying this permit, or to determine compliance with this permit. If requested, the Permittee shall also furnish the Department with copies of records kept as a requirement of this permit.
8. **Inspection and Entry.** Upon presentation of credentials and other documents as may be required by law, the Permittee shall allow the employees of the Department or their authorized representative to:
 - a. Enter at reasonable times the Permittee's premises where the regulated facility or activity is located or conducted, or where records must be kept under the conditions of this 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.
 - d. Sample or monitor, at reasonable times, any substances or parameters at any location for the purposes of assuring permit compliance or as otherwise authorized by Code of Alabama 1975, Section 22-27-1 *et seq.*
9. **Monitoring, Corrective Actions, and Records.**
 - a. Samples and measurements taken for the purpose of monitoring or corrective action shall be representative of the monitored activity. The methods used to obtain representative samples to be analyzed must be the appropriate method from Chapter 335-13-4 or the methods as specified in the Application attached hereto and incorporated by reference. Laboratory methods must be those specified in Standard Methods for the Examination of Water and Wastewater (American Public Health Association, latest edition), Methods for Chemical Analysis of Water and Wastes (EPA-600/4-79-020), Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (EPA Publication SW-846, latest edition), other appropriate EPA methods, or as specified in the Application. All field tests must be conducted using approved EPA test kits and procedures.
 - b. The Permittee shall retain records, at the location specified in Section I., of all monitoring, or corrective action information, including all calibration and maintenance records, copies of all reports and records required by this permit, and records of all data used to complete the application for this permit for a period of at least three years from the date of the sample, measurement, report or record or for periods elsewhere specified in this permit. These periods may be extended by the request of the Department at any time and are automatically extended during the course of any unresolved enforcement action regarding this facility.
 - c. Records of monitoring and corrective action information shall include.
 - i. The exact place, date, and time of sampling or measurement.
 - ii. The individual(s) and company who performed the sampling or measurements.
 - iii. The date(s) analyses were performed.
 - iv. The individual(s) and company who performed the analyses.

- v. The analytical techniques or methods used.
 - vi. The results of such analyses.
 - d. The Permittee shall submit all monitoring and corrective action results at the interval specified elsewhere in this permit.
10. **Reporting Planned Changes.** The Permittee shall notify the Department, in the form of a request for permit modification, at least 90 days prior to any change in the permitted service area, increase in the waste received, or change in the design or operating procedure as described in this permit, including any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
11. **Transfer of Permit.** This permit may be transferred to a new owner or operator. All requests for transfer of permits shall be in writing and shall be submitted on forms provided by the Department. Before transferring ownership or operation of the facility during its operating life, the Permittee shall notify the new owner or operator in writing of the requirements of this permit.
12. **Certification of Construction.** The Permittee may not commence disposal of waste in any new cell or phase until the Permittee has submitted to the Department, by certified mail or hand delivery, a letter signed by both the Permittee and a professional engineer stating that the facility has been constructed in compliance with the permit. The Department must inspect the constructed cells or phases before the owner or operator can commence waste disposal unless the Permittee is notified that the Department will waive the inspection.
13. **Compliance Schedules.** Reports of compliance or noncompliance or any progress reports on interim and final requirements contained in any compliance schedule required and approved by the Department shall be submitted no later than 14 days following each schedule date.
14. **Other Noncompliance.** The Permittee shall report all instances of noncompliance with the permit at the time monitoring reports are submitted.
15. **Other Information.** If the Permittee becomes aware that information required by the Application was not submitted or was incorrect in the Application or in any report to the Department, the Permittee shall promptly submit such facts or information. In addition, upon request, the Permittee shall furnish to the Department, within a reasonable time, information related to compliance with the permit.

F. **Design and Operation of Facility.** The Permittee shall maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or nonsudden release of contaminants (including leachate and explosive gases) to air, soil, groundwater, or surface water, which could threaten human health or the environment.

G. **Inspection Requirements.**

1. The Permittee shall comply with all requirements of ADEM Admin. Code Division 13.
2. The Permittee shall conduct random inspections of incoming loads.
3. Records of all inspections shall be included in the operating record.

H. **Recordkeeping and Reporting.**

1. The Permittee shall maintain a written operating record at the location specified in Section I.,1. The operating record shall include:
 - a. Documentation of inspection and maintenance activities.

- b. Disposal Volume reports.
 - c. Personnel training documents and records.
 - d. Solid/Hazardous Waste Determination Forms for Industrial Wastes, and associated ADEM disposal approval correspondence for industrial waste and special waste.
 - e. Copies of this Permit and the Application.
 - f. Copies of all variances granted by the Department, including copies of all approvals of special operating conditions.
2. Quarterly Volume Report. Beginning with the effective date of this permit, the Permittee shall submit, within thirty (30) days after the end of each calendar quarter, a report summarizing the waste receipts for the previous (just ended) quarter. Copies of the quarterly reports shall be maintained in the operating record. If there is no receipt of waste for the reporting quarter, the Permittee shall still be required to complete and submit a report of non-receipt of waste.
3. Monitoring and Corrective Action Reports. The Permittee shall submit reports of any monitoring and corrective activities conducted pursuant to the requirements of this permit. The reports should contain all monitoring results and conclusions from samples and measurements conducted during the sampling period. All monitoring reports shall be maintained in the operating record.
4. Availability, Retention, and Disposition of Records.
- a. All records, including plans, required under this permit or Division 13 must be furnished upon request, and made available at reasonable times for inspection by any officer, employee, or representative of the Department.
 - b. All records, including plans, required under this permit or Division 13 shall be retained by the Permittee for a period of at least three years. The retention period for all records is extended automatically during the course of any unresolved enforcement action regarding the facility, or as requested by the Department.
 - c. A copy of records of waste disposal locations and quantities must be submitted to the Department and local land authority upon closure of the facility.
- I. Documents to be Maintained by the Permittee. The Permittee shall maintain, at the Geo Specialty Chemicals, Inc office located in Demopolis, Alabama, the following documents and amendments, revisions and modifications to these documents until an engineer certifies closure of the permitted landfill.
- 1. Operating record.
 - 2. Closure Plan.
- J. Mailing Location. All reports, notifications, or other submissions which are required by this permit should be sent via signed mail (i.e. certified mail, express mail delivery service, etc.) or hand delivered to:
- Mailing Address
Chief, Solid Waste Branch, Land Division
Alabama Department of Environmental Management
P.O. Box 301463
Montgomery, AL 36130-1463

Physical Address

Chief, Solid Waste Branch, Land Division
Alabama Department of Environmental Management
1400 Coliseum Blvd.
Montgomery, Alabama 36110-2059

- K. Signatory Requirement. All applications, reports or information required by this permit, or otherwise submitted to the Department, shall be signed and certified by the owner as follows:

1. If an individual, by the applicant.
2. If a city, county, or other municipality or governmental entity, by the ranking elected official, or by a duly authorized representative of that person.
3. If a corporation, organization, or other legal entity, by a principal executive officer, of at least the level of Vice President, or by a duly authorized representative of that person.

- L. Confidential Information. The Permittee may claim information submitted as confidential if the information is protected under Code of Alabama 1975 §§ 22-39-18, as amended.

- M. State Laws and Regulations. Nothing in this permit shall be construed to preclude the initiation of any legal action or to relieve the Permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable state law or regulation.

SECTION II. GENERAL OPERATING CONDITIONS

- A. Operation of Facility. The Permittee shall operate and maintain the disposal facility consistent with the Application, this permit, and ADEM Admin. Code Division 13.
- B. Open Burning. The Permittee shall not allow open burning without prior written approval from the Department and other appropriate agencies. A burn request should be submitted in writing to the Department outlining why that burn request should be granted. This request should include, but not be limited to, specifically what areas will be utilized, types of waste to be burned, the projected starting and completion dates for the project, and the projected days and hours of operation. The approval, if granted, shall be included in the operating record.
- C. Prevention of Unauthorized Disposal. The Permittee shall follow the approved procedures for the detecting and preventing the disposal of free liquids, regulated hazardous waste, PCB's, and medical waste at the facility.
- D. Unauthorized Discharge. The Permittee shall operate the disposal facility in such a manner that there will be no water pollution or unauthorized discharge. Any discharge from the disposal facility or practice thereof may require a National Pollutant Discharge Elimination System permit under the Alabama Water Pollution Control Act.
- E. Industrial Waste Disposal. The Permittee can only dispose of the industrial waste listed in Section III. B as required by ADEM Admin. Code 335-13-4-.21(1)(c), and as specified in the Application.
- F. Boundary Markers. The Permittee shall ensure that the facility is identified with a sufficient number of permanent boundary markers that are at least visible from one marker to the next.

SECTION III. SPECIFIC REQUIREMENTS FOR INDUSTRIAL WASTE LANDFILLS

A. Waste Identification and Management.

1. Subject to the terms of this permit, the Permittee may dispose of the nonhazardous solid wastes listed in III. B. Disposal of any other wastes is prohibited, except waste granted a temporary or one time waiver by the Director.
2. The total permitted area for the Geo Specialty Chemicals Inc. Inert Landfill is approximately 9.5 acres with a disposal area of 6.7 acres.
3. The maximum average yearly volume of waste disposed at the facility shall not exceed 35,000 cubic yards except as provided under Rule 335-13-5-.06(2)(a)5.

B. Waste Streams. The Permittee may accept for disposal non-hazardous inert spent silica mud from the production of alum.

C. Service Area. The Permittee is allowed to receive for disposal waste from Geo Specialty Chemicals, Inc. Plant located in Demopolis, Alabama.

D. Waste Placement, Compaction, and Cover. All waste shall be confined to an area as small as possible and placed onto an appropriate slope not to exceed 4 to 1 (25%). Due to the nature of the disposal cells (pits), compaction of the waste material using landfill equipment will not be practical due to the depth of the pits. As such, the waste will be placed in an uncompacted state until the waste has reached an elevation within the cell that safely allows access to the cell by landfill equipment. The disposal cells (consist of five pits separated by small berms of chalk) shall be dewatered prior to filling.

The dewatering activities shall begin with the removal of water from the southernmost pit (Pit A). The water from Pit A should be discharged to Pit B. Should water overflow the berm in Pit B, the water should be contained in Pit C. Once dewatered, Pit A should be filled with the permitted waste stream until full. Pit B will then be dewatered with the discharge to Pit C. Pit B will then be filled and the process continued until dewatering of the northernmost pit is required. Water removed from the northernmost pit (Pit E) should be discharged to the surface water retention pond located near the northern property boundary. The location of the pits and retention pond are provided on Figures C-1.0 and C-2.0 of the application.

In the future, if additional pits are excavated within the permitted area for the removal of chalk, these pits will be used for the disposal of waste. In the event additional pits require dewatering, the water will be discharged to the surface water retention pond located near the northern property boundary.

E. Liner Requirements. The Permittee shall not be required to install a composite liner system at this time. However, the permittee should maintain minimum of ten (10) feet separation from the base of the disposal pits and the top of temporal fluctuation of the groundwater table.

F. Security. The Permittee shall provide artificial and/or natural barriers, which prevent entry of unauthorized vehicular traffic to the facility.

G. All Weather Access Roads. The Permittee shall provide an all-weather access road to the dumping face that is wide enough to allow passage of collection vehicles.

H. Adverse Weather Disposal. The Permittee shall provide for disposal activities in adverse weather conditions.

I. Personnel. The Permittee shall maintain adequate personnel to ensure continued and smooth operation of the facility.

- J. Environmental Monitoring and Treatment Structures. The Permittee shall provide protection and proper maintenance of environmental monitoring and treatment structures.
- K. Vector Control. The Permittee shall provide for vector control as required by ADEM Admin. Code Division 13.
- L. Bulk or Noncontainerized Liquid Waste. The Permittee shall not dispose of bulk or noncontainerized liquid waste, or containers capable of holding liquids, unless the conditions of Rule 335-13-4-.23(1)(j) are met.
- M. Empty Containers. Empty containers larger than 10 gallons in size must be rendered unsuitable for holding liquids prior to disposal in the landfill unless otherwise approved by the Department.
- N. Other Requirements. The Department may enhance or reduce any requirements for operating and maintaining the landfill as deemed necessary by the Land Division.
- O. Other Permits. The Permittee shall operate the landfill according to this and any other applicable permits.
- P. Scavenging and Salvaging Operations. The Permittee shall prevent scavenging and salvaging operations, except as part of a controlled recycling effort. Any recycling operation must be in accordance with plans submitted and approved by the Department.
- Q. Signs. If the landfill is available to the public or commercial haulers, the Permittee shall provide a sign outlining instructions for use of the site. The sign shall be posted and have the information required by Rule 335-13-4-.23(1)(f).
- R. Litter Control. The Permittee shall control litter.
- S. Fire Control. The Permittee shall provide fire control measures.

SECTION IV. GROUNDWATER MONITORING REQUIREMENTS

Groundwater monitoring is not required at this landfill provided that the waste stream is in accordance with Section III.B. Should any waste be disposed other than the waste streams indicated in Section III.B., the Department might require that groundwater monitoring wells be installed.

SECTION V. GAS MONITORING REQUIREMENTS

Gas monitoring is not being required at this landfill. If at any time the Department determines that an explosive gas monitoring system is deemed necessary for the protection of human health and the environment, the Permittee must, within 90 days, submit an application for a permit modification for the installation of an explosive gas monitoring system that meets the proper regulatory requirements of the Alabama Department of Environmental Management.

SECTION VI. SURFACE WATER MANAGEMENT REQUIREMENTS

The Permittee shall construct and maintain a sedimentation pond on the northern property boundary as part of run-on and run-off control structures to control the discharge of pollutants in stormwater. Any discharges from drainage control structures shall be permitted through a discharge permit issued by the ADEM Water Division.

SECTION VII. CLOSURE AND POST-CLOSURE REQUIREMENTS

The Permittee shall close the landfill and perform post-closure care of the landfill in accordance with Division 13.

- A. Final Cover. The Permittee shall grade final soil cover such that surface water does not pond over the permitted area as specified in the Closure Plan.
- B. Vegetative Cover. The Permittee shall establish a vegetative or other appropriate cover within 90 days after completion of final grading requirements in the Application. Preparation of a vegetative cover shall include, but not be limited to, the placement of seed, fertilizer, mulch, and water.
- C. Notice of Intent. The Permittee shall place in the operating record and notify the Department of their intent to close the landfill prior to beginning closure.
- D. Completion of Closure Activities. The Permittee must complete closure activities of each landfill unit in accordance with the Closure Plan. If the LF unit has remaining capacity and there is reasonable likelihood that the LF unit will receive additional wastes, closure activities of the LF unit must begin no later than three years after the date of known final receipt of wastes.
- E. Certification of Closure. Following closure of each unit, the Permittee must submit to the Department a certification, signed by an engineer, verifying the closure has been completed according to the Closure Plan.
- F. Post-Closure Care Period. Post-closure care activities shall be conducted after closure of each unit throughout the life of this permit and continuing for a period of thirty (30) years following closure of the facility. The Department may shorten or extend the post-closure care period applicable to the solid waste disposal facility. The Permittee shall reapply in order to fulfill the post-closure care requirements of this permit.
- G. Post-Closure Maintenance. The Permittee shall provide post closure maintenance of the facility to include regularly scheduled inspections. This shall include maintenance of the cover, vegetation, monitoring devices and pollution control equipment and correction of other deficiencies that may be observed by ADEM. Monitoring requirements shall continue throughout the post closure period as determined by the Department unless all waste is removed and no unpermitted discharge to waters of the State has occurred.
- H. Post-Closure Use of Property. The Permittee shall ensure that post closure use of the property never be allowed to disturb the integrity of the final cover, liner, or any other component of the containment system. This shall preclude the growing of deep-rooted vegetation on the closed area.
- I. Certification of Post-Closure. Following post-closure of each unit, the Permittee must submit to the Department a certification, signed by an engineer, verifying the post-closure has been completed according to the Post-Closure Plan.
- J. Notice in Deed to Property. The Permittee shall record a notation onto the land deed containing the property utilized for disposal within 90 days after permit expiration, revocation or when closure requirements are achieved as determined by the Department as stated in the Application. This notation shall state that the land has been used as a solid waste disposal facility, the name of the Permittee, type of disposal activity, location of the disposal facility and beginning and closure dates of the disposal activity.
- K. Recording Instrument. The Permittee shall submit a certified copy of the recording instrument to the Department within 120 days after permit expiration, revocation, or as directed by the Department as described in the Application.
- L. Removal of Waste. If the Permittee, or any other person(s), wishes to remove waste, waste residues, or any liner or contaminated soils, the owner must request and receive prior approval from the Department.

SECTION VIII. VARIANCES

1. A variance is granted from Rule 335-13-4-.15 requiring weekly cover. The Permittee shall not be required to cover until closure (see Section III.D)
2. A variance is granted from Rule 335-13-4-.16 that requires explosive gas monitoring (See section V)
3. A variance is granted from Rule 335-13-4-.27 requiring groundwater monitoring.
4. A variance is granted from Rule 335-13-4-.13 requiring a 100-foot minimum buffer. A 50-foot buffer zone is permitted around the perimeter of the facility as shown on Figure C-1 of the application.
5. A variance is granted from Rule 335-13-4-20 2(f) regarding closure activities. If the LF unit has remaining capacity and there is reasonable likelihood that the LF unit will receive additional wastes, closure activities of the LF unit must begin no later than three years after the date of known final receipt of wastes.
6. A variance is granted from Rule 335-13-4-.20(2)(b)1 regarding specification of a final cover material. The final cover of the disposal area can be constructed by grading the waste materials to promote drainage and prevent ponding. An erosion layer will consist of a minimum six inches of material(s) that is capable of sustaining native plant growth, to minimize erosion and, when applicable, maximize evapotranspiration should be laid on top of the graded waste material (see Section VII.A.).

Any variance granted by the Department may be terminated by the Department whenever the Department finds, after notice and opportunity for hearing, that the petitioner is in violation of any requirement, condition, schedule, limitation or any other provision of the variance, or that operation under the variance does not meet the minimum requirements established by state and federal laws and regulations or is unreasonably threatening the public health.

FINAL DETERMINATION

PERMIT RENEWAL
GEO Specialty Chemicals, Inc.
5365 County Road 57
Demopolis, Alabama 36732

GEO Specialty Chemicals, Inc. Inert Landfill
Permit No. 33-02

October 31, 2014

GEO Specialty Chemicals, Inc. has submitted to the Alabama Department of Environmental Management (ADEM) an application to continue to operate a construction and demolition landfill known as the GEO Specialty Chemicals, Inc. Inert Landfill. The waste stream for the Geo Specialty Chemicals, Inc. Inert Landfill would remain non-hazardous inert spent silica mud from the production of alum. The service area for the Geo Specialty Chemicals, Inc. Inert Landfill would remain the Geo Specialty Chemicals, Inc. Plant located in Demopolis, Alabama. The maximum average daily volume of waste disposed at the Geo Specialty Chemicals, Inc. Inert Landfill would remain 35,000 cubic yards per year.

The Geo Specialty Chemicals, Inc. Inert Landfill is described as being located in Section 22, Township 19 North, Range 4 East in Hale County, Alabama. The Geo Specialty Chemicals, Inc. Inert Landfill consists of approximately 9.5 acres with 6.7 acres approved for disposal.

A public comment period was announced by ADEM on August 28, 2014 and ended on October 2, 2014. The permit application and draft permit was available for inspection at the Alabama Department of Environmental Management. The Department received no comments during the comment period.

The Land Division has determined that the renewal of the permit meets the applicable requirements of ADEM's Administrative Code Division 13.

Technical Contact:

Shane Lovett
Solid Waste Engineering Section
Land Division

FINAL DETERMINATION

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GEO Specialty Chemicals, Inc.
5365 County Road 57
Demopolis, Alabama 36732

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GEO Specialty Chemicals, Inc. has submitted to the Alabama Department of Environmental Management (ADEM) an application to continue to operate a construction and demolition landfill known as the GEO Specialty Chemicals, Inc. Inert Landfill. The waste stream for the Geo Specialty Chemicals, Inc. Inert Landfill would remain non-hazardous inert spent silica mud from the production of alum. The service area for the Geo Specialty Chemicals, Inc. Inert Landfill would remain the Geo Specialty Chemicals, Inc. Plant located in Demopolis, Alabama. The maximum average daily volume of waste disposed at the Geo Specialty Chemicals, Inc. Inert Landfill would remain 35,000 cubic yards per year.

The Geo Specialty Chemicals, Inc. Inert Landfill is described as being located in Section 22, Township 19 North, Range 4 East in Hale County, Alabama. The Geo Specialty Chemicals, Inc. Inert Landfill consists of approximately 9.5 acres with 6.7 acres approved for disposal.

A public comment period was announced by ADEM on August 28, 2014 and ended on October 2, 2014. The permit application and draft permit was available for inspection at the Alabama Department of Environmental Management. The Department received no comments during the comment period.

The Land Division has determined that the renewal of the permit meets the applicable requirements of ADEM's Administrative Code Division 13.

Technical Contact:

Shane Lovett
Solid Waste Engineering Section
Land Division